

**NAME**

**addletters** - Tool for diddling with letters

**SYNOPSIS**

```
addletters [options] text ...
```

**DESCRIPTION**

Tool for diddling with letters

**OPTIONS**

- a** Use ASCII value of each letter (instead of 1-26)
- d** Use delta between letters
- l** Output length
- L** Output length of Consolents/Vowels
- m** Multiply them together
- M modulus**  
Modulus to use when computing deltas
- n** Just print out the numerical value of each letter
- r** Reverse: e.g. **addletters** 18 05 22 05 18 19 05
- s** Single char: rickrich == 18
- S** Scrabble weights, add \*<n> bonus; i.e. start\*2
- T** Scrabble tiles
- t total** Output additional amount to add to get 'total'
- v vals** val is a-z, z-a, lino, morse [a-z]
- w** Print single words
- x** Print in hex, not decimal
- 0** A=0, B=1, Z=25
- z** A=26, B=25, Z=1
- D lvl** Set Debug level [0]

**EXAMPLE**

Add the letters in 'geocaching':

```
$ addletters geocaching
72
```

**SEE ALSO**

**lethist**(1)

**NAME**

**geo-2gpsdrive** - Enter a file of waypoints into the GpsDrive SQL database.

**SYNOPSIS**

```
geo-2gpsdrive [options] waypoint-file
geo-2gpsdrive [options] waypoint-file latitude longitude
```

**DESCRIPTION**

Enter a file of waypoints into the GpsDrive SQL database (if version of gpsdrive is 2.09 or less) OR sqlite3 database (if version of gpsdrive is 2.10 or greater).

This is useful if you have a file of waypoints from geo-nearest that you need to convert into Gpsdrive format plus one or more other formats, such as Cetus plus GpsDrive. Gpsbabel currently doesn't know how to enter waypoints directly into an SQL database (and its not clear to me whether it should be taught how to do this or not).

**OPTIONS**

**-s** Output short names for the caches (gpsbabel option)

**-r radius**

Display only caches with radius (e.g. **-r 25M**)

**-i format**

Input format, **-o?** for possibilities [tabsep]

**-S** Enter waypoints into SQL database

**-d** For **-S**, just delete selected records

**-P** For **-S**, purge all records of type **-t** Geocache\*

**-t type** The waypoint type [Geocache]

**-V gpsver**

Version of gpsdrive (2.09 or 2.10+) [2.09]

**-D lvl** Debug level [0]

**-U** Retrieve latest version of this script

Defaults can also be set with variables in file \$HOME/.georc:

```
LAT=latitude;          LON=logitude;
OUTFMT=format;        BABELFLAGS=-s;
SQLUSER=gast;         SQLPASS=gast;          SQLDB=geoinfo;
```

**EXAMPLES**

Display shortnames:

```
geo-2gpsdrive -s caches.tabsep
```

Add caches to a GpsDrive SQL database

```
geo-2gpsdrive -s -S caches.tabsep
```

Purge the existing SQL database of all geocaches, then enter new ones:

```
geo-2gpsdrive -S -P -s caches.tabsep
```

geo-2gpsdrive(1)

geo-2gpsdrive(1)

**SEE ALSO**

geo-newest, geo-found, geo-placed, geo-nearest, <http://geo.rkkda.com/>

**NAME**

**geo-2tangogps** - Enter a file of waypoints into the tangogps SQL database.

**SYNOPSIS**

```
geo-2tangogps [options] waypoint-file
geo-2tangogps [options] waypoint-file latitude longitude
```

**DESCRIPTION**

Enter a file of waypoints into the tangogps or FoxtrotGPS SQL database.

This is useful if you have a file of waypoints from geo-nearest that you need to convert into tangogps format plus one or more other formats, such as Cetus plus tangogps. Gpsbabel currently doesn't know how to enter waypoints directly into an SQL database (and its not clear to me whether it should be taught how to do this or not).

**OPTIONS**

- s** Output short names for the caches (gpsbabel option)
- r radius**  
Display only caches with radius (e.g. **-r 25M**)
- f** Use FoxtrotGPS instead of tangoGPS for the DB file right now, just changes SQLDB to ~/.foxtrot-gps/poi.db
- i format**  
Input format, **-o?** for possibilities [tabsep]
- S** Enter waypoints into SQL database
- d** For **-S**, just delete selected records
- P** For **-S**, purge all records of type **-t** Geocache\*
- t type** The waypoint type [Geocache]
- D lvl** Debug level [0]
- U** Retrieve latest version of this script

Defaults can also be set with variables in file \$HOME/.georc:

```
LAT=latitude;          LON=logitude;
OUTFMT=format;        BABELFLAGS=-s;
SQLUSER=gast;         SQLPASS=gast;          SQLDB=~/.tangogps/poi.db
;
```

**EXAMPLES**

Display shortnames:

```
geo-2tangogps -s caches.tabsep
```

Add caches to a tangogps SQL database

```
geo-2tangogps -s -S caches.tabsep
```

Purge the existing SQL database of all geocaches, then enter new ones:

```
geo-2tangogps -S -P -s caches.tabsep
```

**SEE ALSO**

geo-newest, geo-found, geo-placed, geo-nearest, <http://geo.rkkda.com/>

**NAME**

**geo-additional** - Fetch additional waypoints

**SYNOPSIS**

**geo-additional** [*options*] *gid* ...

**DESCRIPTION**

Fetch additional waypoints from a gc id.

**EXAMPLES**

**Fetch extra waypoints from**

FTF HOUNDS MN STYLE - Hal-oween

```

$ geo-additional GC30V8T
geo-waypoint N 44° 54.103 W 093° 34.027 MU30V8T
geo-waypoint N 44° 54.094 W 093° 33.896 S130V8T
geo-waypoint N 44° 54.072 W 093° 34.100 S230V8T
geo-waypoint N 44° 54.172 W 093° 34.070 S330V8T
geo-waypoint N 44° 54.247 W 093° 34.079 S430V8T
geo-waypoint N 44° 54.242 W 093° 34.050 S530V8T
geo-waypoint N 44° 54.219 W 093° 33.973 S630V8T
geo-waypoint N 44° 54.190 W 093° 33.947 S730V8T
geo-waypoint N 44° 54.185 W 093° 33.936 S830V8T
geo-waypoint N 44° 54.142 W 093° 33.766 S930V8T
geo-waypoint N 44° 54.139 W 093° 33.765 TE30V8T

```

**OPTIONS**

**-D lvl** Debug level

**NAME**

**geo-circles** - Compute the intersection of two circles on the earth

**SYNOPSIS**

```
geo-circles [options] lat1 lon1 radius1 lat2 lon2 radius2
```

**DESCRIPTION**

Compute the intersection of two circles on the earth.

lat/lon can be specified in DegDec or dotted MinDec format. radius is in meters (m) or feet (ft) or miles (mi).

N.B. this program was inspired by Rock Johnson's "Gee" series of math caches. Dyl1231, Seabiskit, and I enjoy these very much. Thanks RJ!

**OPTIONS**

**-D lvl** Debug level

**EXAMPLES**

# DegDec input...

```
$ geo-circles -- 44.92592 -93.41415 307      44.92392 -93.41377 114
p3a = 44.923176 -93.414810      44.55.391 -93.24.889
p3b = 44.923455 -93.412518      44.55.407 -93.24.751
```

# MinDec input...

```
$ geo-circles -- 44.55.435 -93.24.826 114      44.55.435 -93.24.645 150
p3a = 44.923455 -93.412505      44.55.407 -93.24.750
p3b = 44.924445 -93.412513      44.55.467 -93.24.751
```

**NAME**

**geo-code** - Geocode an address into a lat/lon

**SYNOPSIS**

```
geo-code [options] address citystate_or_zip [country]
geo-code [options] "" citystate_or_zip [country]
geo-code [options] tele-phone-number
```

**DESCRIPTION**

```
geo-code [options] address citystate_or_zip [country]
```

Convert (geocode) a street address into a latitude/longitude.

```
geo-code [options] "" citystate_or_zip [country]
```

Convert (geocode) a place name into a latitude/longitude.

```
geo-code [options] tele-phone-number
```

Convert (geocode) a phone number into a latitude/longitude.

In either case, the output can be formatted to any of the output file types that gpsbabel supports, or directly imported into the GpsDrive MySQL waypoint database.

Requires:

**curl** <http://curl.haxx.se/>

**gpsbabel**  
<http://gpsbabel.sourceforge.net/>

**OPTIONS****-o format**

Output format, **-o?** for possibilities [gpsdrive] plus "gpsdrive.sql" for direct insertion into MySQL DB plus "degdec" for just Lat.fraq<tab>Long.fraq. plus "mindec" for just DD MM.MMM<tab>DD MM.MMM. plus "map[,geo-map-opts]" to display a geo-map.

**-n name**

The waypoint name, e.g. Bob's House. The default is the street *address*. Percent escapes can be used: %d/%D for DegDec lat/lon, %m/%M for MinDec lat/lon, %a for *address*, %c for *citystate\_or\_zip*, %p for phone

**-s** Output shortened names (a gpsbabel option)

**-t type** The waypoint type, e.g. house, cache, bar [new]

**-q** Quiet. Do not output *address* confirmation on stderr.

**-S** Alias for **-o gpsdrive.sql**

**-a** For SQL, delete existing record only if it matches all fields. Otherwise, delete it if it matches just the name and the type.

**-D level**

Debug level

**-U** Retrieve latest version of this script

**COUNTRIES**

at, be, ca, dk, fr, de, it, lu, nl, es, ch, uk, us, fi, no, pt, se

**EXAMPLES**

Geocode...

```
$ geo-code "123 AnyStreet" 12345
123AnyStreet 42.81020 -73.95070 new
```

```
$ geo-code -t house "123 AnyStreet" 12345
123AnyStreet 42.81020 -73.95070 house
```

```
$ geo-code -n "Bob's House" -t house "123 AnyStreet" 12345
BobsHouse 42.81020 -73.95070 house
```

```
$ geo-code -S -n "Bob" -t house "123 AnyStreet" 12345
[waypoint is added to GpsDrive MySQL database]
```

```
$ geo-code 901-555-1212
123AnyStreet 42.81020 -73.95070 new
```

```
$ geo-code "Schlossplatz 10" "76131 Karlsruhe" de
Schlossplatz10 49.01294 08.40584 new
```

```
$ geo-code "" "Mankato, MN"
MankatoMN 44.16562 -94.00130 new
```

**SEE ALSO**

geo-nearest, geo-waypoint, geo-pg, <http://geo.rkkda.com/>

**NAME**

**geo-coords** - Convert lat/lon from one format to another

**SYNOPSIS**

**geo-coords** [*options*] *latitude longitude*

**DESCRIPTION**

Convert lat/lon from one format to another. Lat/Lon may be in DegDec, MinDec, or DMS formats.

Acceptable formats for lat/lon are:

-93.49130	DegDec (decimal degrees)
W93.49130	DegDec (decimal degrees)
"-93 29.478"	MinDec (decimal minutes)
"W93 29.478"	MinDec (decimal minutes)
-93.29.478	MinDec (decimal minutes)
W93.29.478	MinDec (decimal minutes)
"-93 45 30"	DMS (degrees, minutes, seconds)

**OPTIONS**

<b>-d</b>	Output DegDec only
<b>-m</b>	Output MinDec only
<b>-l</b>	Lat only
<b>-L</b>	Long only

**NAME**

**geo-correct-coords** - Correct the coords of **cache(s)** on the gc.com site

**SYNOPSIS**

```
geo-correct-coords [options] [gcid lat lon] ...
```

**DESCRIPTION**

Correct the coordinates of **cache(s)** on the gc.com site. It can take arguments or read from a file. It can work on traditional, multi, wherigo, mystery, etc., caches, unlike the GC interface.

**EXAMPLES**

Correct GC288HG:

```
$ geo-correct-coords GC288HG n44.51.202 w93.45.232
```

Correct GC numbers in ~/.geo-mystery:

```
$ geo-correct-coords < ~/.geo-mystery
```

**OPTIONS**

**-D lvl** Debug level

**SEE ALSO**

<http://geo.rkkda.com/>

**NAME**

**geo-count** - Count geocache finds or logs

**SYNOPSIS**

```
geo-count [options] user ...
geo-count [options] GCxxxx ...
```

**DESCRIPTION**

**geo-count** [*options*] *user* ...

Report and count geocache finds for "user". "user" can be a user name or a user account number.

**geo-count** [*options*] *GCxxxx* ...

Count number of log entries for a cache.

Requires: A free login at <http://www.geocaching.com>.

**curl** <http://curl.haxx.se/>

**OPTIONS**

- b** Include benchmarks in count
- c** Remove cookie file when done
- o** Include counts of items owned
- s** Only print one output line with totals
- h** Print header line
- t** Include counts of travel bugs
- u username**  
Username for <http://www.geocaching.com>
- p password**  
Password for <http://www.geocaching.com>
- D lvl** Debug level [0]
- U** Retrieve latest version of this script

Defaults can also be set with variables in file `$HOME/.georc`:

```
PASSWORD=password; USERNAME=username;
```

**EXAMPLES**

Report cache finds by type for *user* 'Jeremy':

```
geo-count Jeremy
```

Report totals (found, placed, bugs, bugged) for *user* number 3:

```
geo-count -s 3
```

**SEE ALSO**

geo-usernum, geo-found, <http://geo.rkkda.com/>

**NAME**

**geo-countries-states** - List of Countries and States

**COUNTRIES**

Here is a list of the countries used by **geo-newest**, **geo-demand** and **geo-pqs**.

<b>c-code</b>	<b>2letter</b>	<b>3letter</b>	<b>Name</b>
12	.af	.afg	afghanistan
272	.ax	.ala	aland islands
244	.al	.alb	albania
14	.dz	.dza	algeria
245	.as	.asm	american samoa
16	.ad	.and	andorra
17	.ao	.ago	angola
246	.ai	.aia	anguilla
18	.aq	.ata	antarctica
13	.ag	.atg	antigua and barbuda
19	.ar	.arg	argentina
15	.am	.arm	armenia
20	.aw	.abw	aruba
3	.au	.aus	australia
227	.at	.aut	austria
21	.az	.aze	azerbaijan
23	.bs	.bhs	bahamas
29	.bh	.bhr	bahrain
24	.bd	.bgd	bangladesh
25	.bb	.brb	barbados
40	.by	.blr	belarus
4	.be	.bel	belgium
31	.bz	.blz	belize
26	.bj	.ben	benin
27	.bm	.bmu	bermuda
30	.bt	.btu	bhutan
32	.bo	.bol	bolivia
275			bonaire
234	.ba	.bih	bosnia and herzegovina
33	.bw	.bwa	botswana
247	.bv	.bvt	bouvet island
34	.br	.bra	brazil
248	.io	.iot	british indian ocean territories
39	.vg	.vgb	british virgin islands
36	.bn	.brn	brunei
37	.bg	.bgr	bulgaria
216	.bf	.bfa	burkina faso
35	.bi	.bdi	burundi
42	.kh	.khm	cambodia
43	.cm	.cmr	cameroon
5	.ca	.can	canada
239	.cv	.cpv	cape verde
44	.ky	.cym	cayman islands
46	.cf	.caf	central african republic
249	.td	.tcd	chad
6	.cl	.chl	chile

47	.cn	.chn	china
250	.cx	.cxr	christmas island
251	.cc	.cck	cocos (keeling) islands
49	.co	.col	colombia
50	.km	.com	comoros
51	.cg	.cog	congo
48	.ck	.cok	cook islands
52	.cr	.cri	costa rica
53	.hr	.hrv	croatia
238	.cu	.cub	cuba
54			curacao
55	.cy	.cyp	cyprus
56	.cz	.cze	czech republic
257	.cd	.cod	democratic republic of the congo
57	.dk	.dnk	denmark
58	.dj	.dji	djibouti
59	.dm	.dma	dominica
60	.do	.dom	dominican republic
252			east timor
61	.ec	.ecu	ecuador
63	.eg	.egy	egypt
64	.sv	.slv	el salvador
62	.gq	.gnq	equatorial guinea
65	.er	.eri	eritrea
66	.ee	.est	estonia
67	.et	.eth	ethiopia
69	.fk	.flk	falkland islands
68	.fo	.fro	faroe islands
71	.fj	.fji	fiji
72	.fi	.fin	finland
73	.fr	.fra	france
70	.gf	.guf	french guiana
74	.pf	.pyf	french polynesia
253	.tf	.atf	french southern territories
75	.ga	.gab	gabon
76	.gm	.gmb	gambia
78	.ge	.geo	georgia
79	.de	.deu	germany
254	.gh	.gha	ghana
80	.gi	.gib	gibraltar
82	.gr	.grc	greece
83	.gl	.grl	greenland
81	.gd	.grd	grenada
77	.gp	.glp	guadeloupe
229	.gu	.gum	guam
84	.gt	.gtm	guatemala
86	.gg		guernsey
255	.gn	.gin	guinea
85	.gw	.gnb	guinea-bissau
87	.gy	.guy	guyana
89	.ht	.hti	haiti
256	.hm	.hmd	heard island and mcdonald islands
90	.hn	.hnd	honduras

91	.hk	.hkg	hong kong
92	.hu	.hun	hungary
93	.is	.isl	iceland
94	.in	.ind	india
95	.id	.idn	indonesia
96	.ir	.irn	iran
97	.iq	.irq	iraq
7	.ie	.irl	ireland
243	.im		isle of man
98	.il	.isr	israel
99	.it	.ita	italy
100			ivory coast
101	.jm	.jam	jamaica
104	.jp	.jpn	japan
102	.je		jersey
103	.jo	.jor	jordan
106	.kz	.kaz	kazakhstan
107	.ke	.ken	kenya
109	.ki	.kir	kiribati
241	.kw	.kwt	kuwait
108	.kg	.kgz	kyrgyzstan
110	.la	.lao	laos
111	.lv	.lva	latvia
113	.lb	.lbn	lebanon
114	.ls	.lso	lesotho
115	.lr	.lbr	liberia
112	.ly	.lby	libya
116	.li	.lie	liechtenstein
117	.lt	.lyu	lithuania
8	.lu	.lux	luxembourg
258	.mo	.mac	macau
125	.mk	.mkd	macedonia
119	.mg	.mdg	madagascar
129	.mw	.mwi	malawi
121	.my	.mys	malaysia
124	.mv	.mdv	maldives
127	.ml	.mli	mali
128	.mt	.mlt	malta
240	.mh	.mhl	marshall islands
122	.mq	.mtq	martinique
123	.mr	.mrt	mauritania
134	.mu	.mus	mauritius
259	.yt	.myt	mayotte
228	.mx	.mex	mexico
242	.fm	.fsm	micronesia
237	.md	.mda	moldova
130	.mc	.mco	monaco
131	.mn	.mng	mongolia
274	.me		montenegro
135	.ms	.msr	montserrat
132	.ma	.mar	morocco
133	.mz	.moz	mozambique
136	.mm	.mmr	myanmar

137	.na	.nam	namibia
138	.nr	.nru	nauru
140	.np	.npl	nepal
141	.nl	.nld	netherlands
148	.an	.ant	netherlands antilles
142	.kn		nevis and st kitts
41	.nc	.ncl	new caledonia
9	.nz	.nzl	new zealand
144	.ni	.nic	nicaragua
143	.ne	.ner	niger
145	.ng	.nga	nigeria
149	.nu	.niu	niue
260	.nf	.nfk	norfolk island
146	.kp	.prk	north korea
236	.mp	.mnp	northern mariana islands
147	.no	.nor	norway
150	.om	.omn	oman
151	.pk	.pak	pakistan
261	.pw	.plw	palau
276	.ps		palestine
152	.pa	.pan	panama
156	.pg	.png	papua new guinea
262	.py	.pry	paraguay
153	.pe	.per	peru
154	.ph	.phl	philippines
155	.pn	.pcn	pitcairn islands
158	.pl	.pol	poland
159	.pt	.prt	portugal
226	.pr	.pri	puerto rico
160	.qa	.qat	qatar
161	.re	.reu	reunion
162	.ro	.rom	romania
163	.ru	.rus	russia
164	.rw	.rwa	rwanda
277			saba
171	.sh	.shn	saint helena
264	.kn	.kna	saint kitts and nevis
173	.lc	.lca	saint lucia
217	.ws	.wsm	samoa
183	.sm	.smr	san marino
176	.st	.stp	sao tome and principe
166	.sa	.sau	saudi arabia
167	.sn	.sen	senegal
222	.rs		serbia
168	.sc	.syc	seychelles
178	.sl	.sle	sierra leone
179	.sg	.sgp	singapore
182	.sk	.svk	slovakia
181	.si	.svn	slovenia
184	.sb	.slb	solomon islands
185	.so	.som	somalia
165	.za	.zaf	south africa
267	.gs	.sgs	south georgia and sandwich islands

180	.kr	.kor	south korea
278			south sudan
186	.es	.esp	spain
187	.lk	.lka	sri lanka
169	.bl		st barthelemy
170			st eustatius
172	.kn		st kitts
175	.pm	.spm	st pierre miquelon
177			st vince grenadines
174	.mf		st. martin
188	.sd	.sdn	sudan
189	.sr	.sur	suriname
268	.sj	.sjm	svalbard and jan mayen
190	.sz	.swz	swaziland
10	.se	.swe	sweden
192	.ch	.che	switzerland
193	.sy	.syr	syria
194	.tw	.twn	taiwan
195	.tj	.tjk	tajikistan
196	.tz	.tza	tanzania
198	.th	.tha	thailand
200	.tg	.tgo	togo
269	.tk	.tkl	tokelau
201	.to	.ton	tonga
202	.tt	.tto	trinidad and tobago
203	.tn	.tun	tunisia
204	.tr	.tur	turkey
199	.tm	.tkm	turkmenistan
197	.tc	.tca	turks and caicos islands
205	.tv	.tuv	tuvalu
208	.ug	.uga	uganda
207	.ua	.ukr	ukraine
206	.ae	.are	united arab emirates
11	.uk	.gbr	united kingdom
210	.uy	.ury	uruguay
270	.um	.umi	us minor outlying islands
235	.vi	.vir	us virgin islands
211	.uz	.uzb	uzbekistan
212	.vu	.vut	vanuatu
213	.va	.vat	vatican city state
214	.ve	.ven	venezuela
215	.vn	.vnm	vietnam
218	.wf	.wlf	wallis and futuna islands
271	.eh	.esh	western sahara
220	.ye	.yem	yemen
224	.zm	.zmb	zambia
225	.zw	.zwe	zimbabwe

**STATES**

Here is a list of the states used by **geo-newest**, **geo-demand** and **geo-pqs**.

<b>s-code</b>	<b>2letter</b>	<b>Name</b>
189		abruzzo
162		acre
454		aguascalientes

312		aichi
240		akershus
383		akita
60	al	alabama
163		alagoas
2	ak	alaska
63		alberta
433		alsace
164		amapa
165		amazonas
116		andalucia
87		antwerpen
313		aomori
412		aquitaine
119		aragon
3	az	arizona
4	as	arkansas
380		armed forces americas
381		armed forces europe
382		armed forces pacific
113		arquipelago da madeira
114		arquipelago dos acores
247		aust-agder
59		australian capital territory
413		auvergne
95		aveiro
434		bacs-kiskun
135		baden-wuerttemberg
166		bahia
455		baja california
456		baja california sur
287		banskobystricky kraj
435		baranya
190		basilicata
414		basse-normandie
136		bayern
96		beja
436		bekes
137		berlin
359		blekinge
437		borsod-abauj-zemplen
415		bourgogne
91		brabant wallon
97		braga
98		braganca
138		brandenburg
288		bratislavsky kraj
139		bremen
416		bretagne
64		british columbia
93		brussels
438		budapest
258		burgenland

297		busan
244		buskerud
192		calabria
5	ca	california
193		campania
457		campeche
130		cantabria
99		castelo branco
115		castilla y leon
117		castilla-la mancha
121		cataluna
167		ceara
417		centre
133		ceuta
418		champagne-ardenne
486		chatham islands
458		chiapas
314		chiba
459		chihuahua
306		chungcheong nam do
305		chungcheong puk do
460		coahuila
100		coimbra
461		colima
6	co	colorado
127		comunidad de madrid
126		comunidad foral de navarra
123		comunidad valenciana
227		connacht
7	ct	connecticut
419		corse
439		csongrad
298		daegu
301		daejeon
360		dalarna
9	de	delaware
8	dc	district of columbia
168		distrito federal
462		distrito federal
396		dolnoslaskie
385		drenthe
226		dublin
463		durango
215		east midlands
153		eastern cape
219		eastern england
315		ehime
194		emilia-romagna
234		espace mittelland (be/so)
169		espirito santo
101		evora
120		extremadura
102		faro

440		fejer
257		finnmark
395		flevoland
10	fl	florida
420		franche-comte
160		free state
394		friesland
195		friuli-venezia giulia
316		fukui
317		fukuoka
318		fukushima
122		galicia
304		gangwondo
159		gauteng
362		gavleborg
387		gelderland
11	ga	georgia
319		gifu
170		goias
361		gotland
229		graubunden (gr)
384		groningen
464		guanajuato
103		guarda
465		guerrero
320		gunma
300		gwangju
303		gyeonggido
309		gyeongsang buk do
310		gyeongsang nam do
441		gyor-moson-sopron
88		hainaut
442		hajdu-bihar
363		halland
140		hamburg
421		haute-normandie
12	ha	hawaii
242		hedmark
150		hessen
443		heves
466		hidalgo
321		hiroshima
286		hlavni mesto praha
322		hokkaido
250		hordaland
323		hyogo
324		ibaraki
13	id	idaho
422		ile-de-france
14	il	illinois
299		incheon
15	in	indiana
16	ia	iowa

325		ishikawa
132		islas baleares
128		islas canarias
326		iwate
467		jalisco
364		jamtland
444		jasz-nagykun-szolnok
311		jejudo
307		jeolla buk do
308		jeolla nam do
274		jihocesky kraj
273		jihomoravsky kraj
365		jonkoping
236		jura (ju/ne)
327		kagawa
328		kagoshima
366		kalmar
329		kanagawa
17	ks	kansas
276		karlovarsky kraj
259		karnten
18	ky	kentucky
330		kochi
445		komarom-esztergom
289		kosicky kraj
284		kraj vysocina
275		kralovehradecky kraj
367		kronoberg
397		kujawsko-pomorskie
331		kumamoto
157		kwazulu natal
332		kyoto
131		la rioja
423		languedoc-roussillon
196		lazio
228		leinster
104		leiria
277		liberecky kraj
80		liege
197		liguria
89		limburg
393		limburg
424		limousin
158		limpopo
105		lisboa
400		lodzkie
198		lombardia
220		london
425		lorraine
19	la	louisiana
398		lubelskie
399		lubuskie
90		luxembourg

20	me	maine
401		malopolskie
65		manitoba
171		maranhao
199		marche
21	md	maryland
22	md	massachusetts
172		mato grosso
173		mato grosso do sul
402		mazowieckie
141		mecklenburg-vorpommern
134		melilla
468		mexico
23	mi	michigan
469		michoacan
426		midi-pyrenees
333		mie
174		minas gerais
24	mn	minnesota
25	ms	mississippi
26	mo	missouri
334		miyagi
335		miyazaki
200		molise
27	mt	montana
279		moravskoslezsky kraj
252		more og romsdal
470		morelos
155		mpumalanga
225		munster
336		nagano
337		nagasaki
81		namur
338		nara
471		nayarit
28	ne	nebraska
29	nv	nevada
66		new brunswick
30	nh	new hampshire
31	nj	new jersey
32	nm	new mexico
52		new south wales
33	ny	new york
67		newfoundland and labrador
260		niederosterreich
142		niedersachsen
339		niigata
290		nitriansky kraj
446		nograd
392		noord-brabant
389		noord-holland
255		nordland
427		nord-pas-de-calais

143		nordrhein-westfalen
254		nord-trondelag
232		nordwestschweiz (ag/bl/bs)
368		norrbotten
34	nc	north carolina
35	nd	north dakota
82		north island
217		north wales
156		north west
212		northeast england
154		northern cape
210		northern scotland
58		northern territory
213		northwest england
72		northwest territories
68		nova scotia
472		nuevo leon
73		nunavut
473		oaxaca
261		oberosterreich
36	oh	ohio
340		oita
341		okayama
342		okinawa
37	ok	oklahoma
278		olomoucky kraj
69		ontario
76		oost-vlaanderen
403		opolskie
243		oppland
378		orebro
38	or	oregon
343		osaka
241		oslo
379		ostergotland
239		ostfold
230		ostschweiz (sg/sh/tg/ai/ar/gl)
386		overijssel
129		pais vasco
175		para
176		paraiba
177		parana
280		pardubicky kraj
428		pays de la loire
39	pa	pennsylvania
178		pernambuco
447		pest
179		piaui
429		picardie
201		piemonte
281		plzensky kraj
404		podkarpackie
405		podlaskie

430		poitou-charentes
406		pomorskie
106		portalegre
107		porto
291		presovsky kraj
70		prince edward island
125		principado de asturias
431		provence-alpes-cote d'azur
474		puebla
202		puglia
62		quebec
54		queensland
475		queretaro
476		quintana roo
124		region de murcia
231		region zuerich (zh)
144		rheinland-pfalz
40	ri	rhode island
432		rhone-alpes
180		rio de janeiro
181		rio grande do norte
182		rio grande do sul
249		rogaland
183		rondonia
184		roraima
145		saarland
146		sachsen
147		sachsen-anhalt
344		saga
345		saitama
262		salzburg
477		san luis potosi
185		santa catarina
108		santarem
186		sao paulo
203		sardegna
71		saskatchewan
148		schleswig-holstein
296		seoul
187		sergipe
109		setubal
346		shiga
347		shimane
348		shizuoka
204		sicilia
478		sinaloa
369		skane
407		slaskie
371		sodermanland
251		sogn og fjordane
448		somogy
479		sonora
253		sor-trondelag

55		south australia
41	sc	south carolina
42	sd	south dakota
223		south east england
86		south island
218		south wales
222		south west england
221		southern england
211		southern scotland
263		steiermark
370		stockholm
282		stredocesky kraj
235		suisse romande (ge/vd/fr)
408		swietokrzyskie
449		szabolcs-szatmar-bereg
480		tabasco
481		tamaulipas
57		tasmania
245		telemark
43	tn	tennessee
238		tessin (ti)
44	tx	texas
149		thuringen
264		tirol
482		tlaxcala
188		tocantins
349		tochigi
350		tokushima
351		tokyo
450		tolna
205		toscana
352		tottori
353		toyama
292		trenciansky kraj
206		trentino-alto adige
293		trnavsky kraj
256		troms
302		ulsan
224		ulster
207		umbria
372		uppsala
283		ustecky kraj
45	ut	utah
388		utrecht
208		valle d'aosta
373		varmland
451		vas
374		vasterbotten
375		vasternorrland
376		vastmanland
377		vastra gotaland
209		veneto
483		veracruz

46	vt	vermont
248		vest-agder
246		vestfold
452		veszprem
110		viana do castelo
53		victoria
112		vila real
47	va	virginia
111		viseu
78		vlaams-brabant
265		vorarlberg
354		wakayama
237		wallis (vs)
409		warminsko-mazurskie
48	wa	washington
216		west midlands
49	wv	west virginia
56		western australia
152		western cape
92		west-vlaanderen
410		wielkopolskie
295		wien
50	wi	wisconsin
51	wy	wyoming
355		yamagata
356		yamaguchi
357		yamanashi
214		yorkshire
484		yucatan
74		yukon territory
485		zacatecas
411		zachodniopomorskie
453		zala
391		zeeland
233		zentralschweiz (zg/sz/lu/ur/ow/nw)
294		zilinsky kraj
285		zlinsky kraj
390		zuid-holland

**EXAMPLES**

```
$ geo-newest germany berlin
$ geo-newest .de berlin
$ geo-newest .deu berlin
$ geo-newest c79 berlin
```

**SEE ALSO**

geo-newest, geo-demand, geo-pqs

**NAME**

**geo-demand** - Perform a Pocket Query

**SYNOPSIS**

```

geo-demand [options]
geo-demand [options] latitude longitude
geo-demand [options] zipcode
geo-demand [options] GCxxxx
geo-demand [options] state [latitude longitude]
geo-demand [options] country
geo-demand -o outfmt ....
geo-demand -k glob-pattern

```

**DESCRIPTION**

Pocket Query with demand by email mode...

```

geo-demand [options]
geo-demand [options] latitude longitude
geo-demand [options] zipcode
geo-demand [options] GCxxxx
geo-demand [options] state
geo-demand [options] country

```

Demand a GPX email of a set of geocaches.

"state" can be al, ak, ..., wy or "allstates"

After the query is entered, this script will start a background process that will wait 20 minutes, and then the query will be deleted. The "-w" option puts that process in the foreground. The "-W" option prevents starting that process at all.

Instant data delivery mode...

```

geo-demand -o outfmt ....

```

Any of the command formats above are allowed, and the -o outfmt option must be specified. In this mode, the data is delivered instantly, just like with geo-nearest, etc.

Delete (kill) PQ's by name

```

geo-demand -k glob-pattern

```

Delete (kill) patterns which match glob-pattern by name.

Requires:

- A subscriber login at <http://www.geocaching.com>.
- **curl**  
<http://curl.haxx.se/>

**OPTIONS**

- d N[+-]**  
Difficulty level [1+]
- t N[+-]**  
Terrain level [1+]
- e address**  
Email results to this address [account email address]
- z** Do not unzip the email contents.
- n num** Return "num" caches [500]
- r radius**  
Return caches within radius (mi or km) [100mi]
- w** Wait for query to be removed.
- W** Do not delete query.
- T period**  
Placed within last period (week, month, year)
- T mm/dd/yyyy-mm/dd/yyyy**  
Placed between two dates. Also **-mm/dd/yyyy** (oldest) and **mm/dd/yyyy-** (newest)
- q qualifiers**  
Limit by one or more space/comma separated qualifiers:  
  - Type: these ones OR together....  
 traditional, multi, virtual, letterbox, event,  
 mystery, webcam, trash, earth, mega, gps, where
  - Container: these ones OR together....  
 small, other, none, large, regular, micro, unknown
  - These ones AND together....  
 ifound, notfound, bug, unfound, notowned,  
 new, iown, watchlist, updated, active, notactive,  
 notign, found7, soc, notsoc
- N name/number**  
Set the demand query name or number (1-20) [1]
- a attributes**  
Set attribute values.  
  - [~]dog, [~]fee, [~]rappelling,  
 [~]boat, [~]scuba, [~]kids, [~]onehour, [~]hiking,  
 [~]climbing, [~]wading, [~]swimming, [~]24/7, [~]night,  
 [~]winter, [~]cliff, [~]hunting, [~]danger, [~]wheelchair,  
 [~]camping, [~]bike, [~]motorcycles, [~]quads, [~]jeeps,  
 [~]snowmobiles, [~]campfires, [~]poisonivy, [~]thorns,  
 [~]snakes, [~]ticks, [~]mines, [~]parking, [~]public,  
 [~]picnic, [~]horses, [~]scenic, [~]flashlight, [~]water,  
 [~]restrooms, [~]phone, [~]sleath, [~]stroller, [~]maint,  
 [~]livestock, [~]flashlight, [~]lostandfound, [~]rv,  
 [~]field, [~]luv, [~]snowshoes, [~]xc, [~]tool, [~]nightcache,  
 [~]png, [~]structure, [~]hike\_short, [~]hike\_med,  
 [~]hike\_long, [~]fuel, [~]food, [~]beacon, [~]partner,  
 [~]seasonal, [~]tourist, [~]treeclimb, [~]frontyard,

[~]teamwork

- c** Remove cookie file when done
- u username**  
Username for http://www.geocaching.com
- p password**  
Password for http://www.geocaching.com
- U** Retrieve latest version of this script
- D lvl** Debug level [0]
  - 0: Create and run query, then delete it
  - 1: Create query but do not run or delete it
  - 2: More verbose version of -D1
  - 3: Just show what curl command would be executed

Instant Data Options:

- o format**  
Output format, **-o?** for possibilities [] plus "gpsdrive.sql" for direct insertion into MySQL DB plus "map[,geo-map-opts]" to display a geo-map.
- O filename**  
Output file, if not stdout
- H htmdir**  
Also fetch the printable HTML pages (slowly)
- L logdir**  
Also fetch the plain text log entries (slowly)
- f** Do not report any found or unavailable caches
- F** Report caches found by the login 'username' as unfound

Defaults can also be set with variables in file \$HOME/.georc:

```
PASSWORD=password;  USERNAME=username;
LAT=latitude;      LON=logitude;
```

## EXAMPLES

Nearest 500 caches to my home location:

```
geo-demand
```

Nearest 500 caches to a lat/lon:

```
geo-demand 44.53 -93.56
geo-demand 44.25.234 -93.51.543
```

Nearest 500 caches to a zip code:

```
geo-demand 55344
```

500 caches in a *state*:

```
geo-demand mn
```

500 caches in a *state* using lat/lon:

```
geo-demand mn n43.6 w92
```

500 caches in a *country*:

```
geo-demand iraq
```

500 caches in a *country* by code:

```
geo-demand c12
```

500 caches in a foreign *state*:

```
geo-demand berlin
```

Caches I have not found, and wait until query is deleted before exiting (useful in batch scripts):

```
geo-demand -q notfound -w
```

Generate a query, but do not execute it. Check the gc.com website to see what query would have been run...

```
geo-demand -D1
```

Append to the ignore list any caches that were ever SOCs:

```
ignore=$HOME/.geo-ignore  
geo-demand -o gpsdrive -qsoc mn |  
  awk '{print $1}' >> $ignore  
  sort -u -o $ignore $ignore
```

Delete patterns which match "mn-":

```
geo_demand -k mn-
```

## SEE ALSO

geo-countries-states geo-newest, geo-found, geo-placed, geo-nearest, <http://geo.rkkda.com/>

**NAME**

**geo-density** - Compute the cache density of a circular area

**SYNOPSIS**

```
geo-density [options]  
geo-density [options] latitude longitude  
geo-density [options] zipcode
```

**DESCRIPTION**

Compute the cache density of a circular area.

**OPTIONS**

**-c** Remove cookie file when done  
**-q** Qualifier: unknown  
**-r radius**  
Radius in miles for computing the density [4]  
**-D lvl** Debug level [0]  
**-U** Retrieve latest version of this script

Defaults can also be set with variables in file /home/rick/.georc:

```
LAT=latitude;      LON=logitude;
```

**SEE ALSO**

<http://geo.rkkda.com/>

**NAME**

**geo-dist** - compute total distance between a set of waypoints

**SYNOPSIS**

```
geo-dist [options] latitude longitude [label [symbol]] ...
```

**DESCRIPTION**

Compute total distance and bearing between a set of waypoints. Acceptable formats for lat/lon are:

```
-93.49130      DegDec (decimal degrees)
W93.49130      DegDec (decimal degrees)
"-93 29.478"   MinDec (decimal minutes)
"W93 29.478"   MinDec (decimal minutes)
-93.29.478     MinDec (decimal minutes)
W93.29.478     MinDec (decimal minutes)
W 93° 29.478   Cut/paste from gc.com (note it is 3 arguments)
"-93 45 30"    DMS (degrees, minutes, seconds)
```

"*label*" and "*symbol*" are optional, can be any text, and are ignored. They are accepted for compatibility with the command line input format of geo-map.

If a lat/lon of 0/0 appears in the list, it is ignored and a new route is started.

**OPTIONS****-t waypoints**

A file of waypoints to plot in tabsep, GPX, or in extended Tiger format: LONG,LAT:SYMBOL:LABEL:URL

**-i** Incremental

**-v** Use Vincenty instead of 'rough'

**-D lvl** Debug level [0]

**-U** Retrieve latest version of this script

**EXAMPLES**

Two waypoints:

```
$ geo-dist N44.48.938 W093.31.988 N44.49.245 W093.30.507
1.258898mi      2.026km 2026m   6647ft  74.1
```

Two waypoints, Vincenty formula:

```
$ geo-dist -v N44.48.938 W093.31.988 N44.49.245 W093.30.507
1.2632476mi     2.033km 2033m   6670ft  74.1
```

Route in a GPX file:

```
$ geo-dist -t bikeathon/bikewalk.gpx
2.8129474mi     4.527km 4527m   14852ft 175.2
```

Four waypoints:

```
$ geo-dist -i 45 w93 44.59.809 -93.0.269 \
          45.0.184 -93.0.269 45.0.375 -93.00.000

1      0.31006422mi     0.499km 499m   1637ft  225.0
2      0.43123161mi     0.694km 694m   2277ft   0.0
```

geo-dist(1)

geo-dist(1)

3	0.31006422mi	0.499km	499m	1637ft	44.9
TOTAL	1.0513601mi	1.692km	1692m	5551ft	0.0

**SEE ALSO**

geo-code, geo-nearest, geo-pg, geo-waypoint, <http://geo.rkkda.com/>

**NAME**

**geo-firefox** - Display a map of a point using aerial photos

**SYNOPSIS**

**geo-firefox** [*options*] *lat lon*

**DESCRIPTION**

Display a map of a point using Bing, Google, AOL, or MapQuest aerial photos and Firefox.

**OPTIONS****-a source**

source: mapquest, bing, google, aol [google]

**-z zoom**

Zoom level (max, 1-19) [max]

**-D lvl** Debug level

**EXAMPLE**

\$ **geo-firefox** 45.04.337 w93.45.414 #A

\$ **geo-firefox -z** 13 45.03.274 w93.38.288 #B

\$ **geo-firefox** 45.00.601 w93.21.109 #C

\$ **geo-firefox** 44.59.668 w93.15.301 #D

\$ **geo-firefox** 45.035778 w93.512187

**SEE ALSO**

geo-map, <http://geo.rkkda.com/>

**NAME**

**geo-found** - Fetch a list of geocaches found by a specific user

**SYNOPSIS**

```
geo-found [options] [username]
```

```
geo-found [options] [username] [lat] [lon]
```

**DESCRIPTION**

Fetch a list of geocaches found by a specific user. Only unique caches are found (i.e. two or more logs on a cache are listed only once). Archived caches have the *lat/lon* set to 0.0, 0.0.

Requires: A premium member (\$30/yr) OR a basic member (free) login at: <http://www.geocaching.com>  
Visit a cache page and click the "Download to EasyGPS" link at least once so you can read and agree to the license terms. Otherwise, you will not get any waypoint data.

```
curl    http://curl.haxx.se/
```

```
gpsbabel  
http://gpsbabel.sourceforge.net/
```

**OPTIONS****-b bookmark**

Use list "bookmark" [none] **-q** pocket-query Use list "pocket-query" [none]

**-c** Remove cookie file when done

**-f** Do not report any found or unavailable caches

**-m** Do not report any members-only caches

**-F** Report caches found by the login '*username*' as unfound

**-n num** Return "num" caches [20]

**-s** Output short names for the caches (gpsbabel option)

**-I term** Include only caches with 'term' [\*]

**-X term**

Exclude caches with 'term' [*\_NoThInG\_*] terms: ~ (exclude none), unfound, ifound, soc, unavail, regular, multi, virtual, webcam, event, hybrid, cito

**-r radius**

Display only caches with radius (e.g. **-r 25M**)

**-M mystery**

Use file 'mystery' for unknown/mystery/puzzle caches [*/home/rick/.geo-mystery*]. Awk Format:  
gcid *lat lon* comment i.e: GC2CBVB n44.45.123 w93.00.321 Final

```
GC2CC1Z 44.123456 -93.564123  
Cache
```

**-u username**

Username for <http://www.geocaching.com>

**-p password**

Password for <http://www.geocaching.com>

**-o format**

Output format, **-o?** for possibilities [gpsdrive] plus "gpsdrive.sql" for direct insertion into MySQL DB plus "map[,geo-map-opts]" to display a geo-map.

- O filename**  
Output file, if not stdout
- S** Alias for **-o** gpsdrive.sql
- d** For **-S**, just delete selected records
- P** For **-S**, purge all records of type **-t** Geocache\*
- t type** For **-ogpsdrive.sql**, the waypoint type [Geocache]
- H htmldir**  
Also fetch the printable HTML pages (slowly)
- L logdir**  
Also fetch the plain text log entries (slowly) For **-H** or **-L**, the limit is 1500 updated caches/day.
- ! "lpr -Plp"**  
Print HTML pages
- E var=val**  
Set environment "var" to "val" i.e. DATEFMT=0|1
- D lvl** Debug level [0]
- U** Retrieve latest version of this script

## DEFAULTS

Defaults can also be set with variables in file \$HOME/.georc:

```
PASSWORD=password;  USERNAME=username;  SOC=0|1;
LAT=latitude;      LON=logitude;      GEOMYSTERY=/dev/null;
NUM=num;           UTFMT=format;      BABELFLAGS=-s;
SQLUSER=gast;     SQLPASS=gast;      SQLDB=geoinfo;
DATEFMT=[0|1];
```

## DATE FORMATS

Geocaching.com date formats that are compatible:

GC Format	Example	Compatible
YYYY-MM-DD	2011-07-13	yes
YYYY/MM/DD	2011/07/13	yes
MM/DD/YYYY	07/13/2011	yes
DD/MM/YYYY	13/07/2011	yes if DATEFMT=1 in \$HOME/.georc
DD/Mmm/YYYY	13/Jul/2001	no
Mmm/DD/YYYY	Jul/13/2011	no
DD Mmm YY	13 Jul 11	yes (english only)

## NOTE

A basic member will get caches very slow (20 cache pages per minute) because we have to get the actual cache pages. They will be stored in: ~/.geo/caches/GCXXXX.html. Of course, after running this command, geo-html2gpx could be run.

## EXAMPLES

Show the most recent 50 caches found by Jeremy:

```
geo-found -s -n50 Jeremy
```

Show the most recent caches found by Jeremy that are with a radius of 15 miles of your home location:

```
geo-found -s -r15M Jeremy
```

Show the most recent caches found by Jeremy that are with a radius of 15 miles of a specific location:

```
geo-found -s -r50 Jeremy N47.20.000 W121.30.000
```

Make a FULL backup of all of my cache logs (can take awhile):

```
geo-found -n9999 -L ifound -otabsep > ifound.tabsep
```

Append an incremental backup of all of my cache logs:

```
DIR=ifound; FILE=$DIR.tabsep  
geo-found -n40 -L $DIR -otabsep >> $FILE  
gpsbabel -itabsep -f$FILE -xduplicate,shortname -otabsep -F$FILE
```

## FILES

~/georc ~/geo/caches/

## SEE ALSO

geo-nearest, geo-newest, geo-keyword, geo-placed, geo-code, geo-waypoint, <http://geo.rkkda.com/>

**NAME**

**geo-gccode2id** - Convert GC codes to the decimal equivalent

**SYNOPSIS**

**geo-gccode2id** [*options*] *GC-code* ...

**DESCRIPTION**

Convert GC codes to the decimal equivalent.

**OPTIONS**

**-D lvl** Debug level

**EXAMPLE**

Convert codes:

```
$ geo-gccode2id gcc8 gcff gcg000 gczzzz gc10000 GC588H3 GCAG9X3
GCC8      200
GCFF      255
GCG000    65536
GCZZZZ    512400
GC10000   512401
GC588H3   4453031
GCAG9X3   9310266
```

**NAME**

**geo-gid** - Fetch data about geocaches by gc.com GID

**SYNOPSIS**

```
geo-gid [options] gid ...
```

**DESCRIPTION**

Fetch data about geocaches by gc.com GID. Only works with caches that are active (not archived).

Requires: A subscriber (0/yr) login at <http://www.geocaching.com>. Visit a cache page and click the "Download to EasyGPS" link at least once so you can read and agree to the license terms. Otherwise, you will not get any waypoint data.

**curl** <http://curl.haxx.se/>

**gpsbabel**  
<http://gpsbabel.sourceforge.net/>

**OPTIONS**

- c** Remove cookie file when done
- f** Do not report any found or unavailable caches
- m** Do not report any members-only caches
- F** Report caches found by the login 'username' as unfound
- s** Output short names for the caches (gpsbabel option)
- u username**  
Username for <http://www.geocaching.com>
- p password**  
Password for <http://www.geocaching.com>
- o format**  
Output format, **-o?** for possibilities [gpsdrive] plus "gpsdrive.sql" for direct insertion into MySQL DB plus "map[,geo-map-opts]" to display a geo-map.
- O filename**  
Output file, if not stdout
- S** Alias for **-o** gpsdrive.sql
- d** For **-S**, just delete selected records
- P** For **-S**, purge all records of type **-t** Geocache\*
- t type** For **-ogpsdrive.sql**, the waypoint type [Geocache]
- H htmldir**  
Also fetch the printable HTML pages (slowly)
- L logdir**  
Also fetch the plain text log entries (slowly) For **-H** or **-L**, the limit is 1500 updated caches/day.
- ! "lpr -Plp"**  
Print HTML pages
- D lvl** Debug level [0]
- U** Retrieve latest version of this script

**DEFAULTS**

Defaults can also be set with variables in file `/home/rick/.georc`:

```
PASSWORD=password;  USERNAME=username;  SOC=0|1;
LAT=latitude;      LON=logitude;    GEOMYSTERY=/dev/null;
NUM=num;           OUTFMT=format;   BABELFLAGS=-s;
SQLUSER=gast;      SQLPASS=gast;     SQLDB=geoinfo;
```

**EXAMPLES**

`geo-gid GCG000`

**SEE ALSO**

`geo-newest`, `geo-found`, `geo-placed`, `geo-nearest` <http://geo.rkkda.com/>

**NAME**

**geo-gpx** - Fetch GPX **file(s)** by gc.com waypoint name

**SYNOPSIS**

```
geo-gpx [options] gid ...
```

**DESCRIPTION**

Fetch GPX **file(s)** by gc.com waypoint name (i.e. GCxxxx)

If no output format is specified, the GPX data is stored into individual files named *<gid>.gpx*.

If an output format is specified with **-o**, the GPX data is combined into a single file with that format and output into stdout or to the filename specified with the **-O** option.

Requires: A subscriber login at <http://www.geocaching.com>.

**OPTIONS****-o format**

Output format, **-o?** for possibilities [] plus "gpsdrive.sql" for direct insertion into MySQL DB plus "map[,geo-map-opts]" to display a geo-map.

**-O filename**

Output file, if not stdout

**-u username**

Username for <http://www.geocaching.com>

**-p password**

Password for <http://www.geocaching.com>

**-D lvl** Debug level [0]**-U** Retrieve latest version of this script

Defaults can also be set with variables in file \$HOME/.georc:

```
PASSWORD=password;  USERNAME=username;
```

**EXAMPLES**

Get a gc.com style gpx file for a single cache...

```
geo-gpx GCG000
```

Get a gc.com style gpx file for the 20 newest caches...

```
geo-gpx -ogpx -Onewest.gpx $(geo-newest | awk '{print $1}')
```

**SEE ALSO**

*geo-gid*, *geo-newest*, *geo-found*, *geo-placed*, *geo-nearest*, <http://geo.rkkda.com/>

**NAME**

**geo-gpxmail** - Process PQ email using gpx2html

**SYNOPSIS**

```
geo-gpxmail [options]
```

**DESCRIPTION**

Process PQ email using gpx2html. The results are placed under directory '\$PQDIR/<pqname>'. \$PQDIR can be set on the command line with the **-d** option, or in /home/rick/georc. The default is PQDIR=/home/rick/Caches.

<pqname> is determined from the subject line of the PQ email. Which means this script could break at any time due to the whims of Jeremy.com.

If a shell script named '\$PQDIR/<pqname>/preconvert.sh' exists, it will be executed before gpx2html is run. This can be used, for example, to copy other GPX files into the current directory for merging. E.G.:

```
#/bin/sh
cp ../found/found.gpx .
```

If a shell script named '\$PQDIR/<pqname>/postconvert.sh' exists, it will be executed after gpx2html is run. This can be used for example, to convert the gpx files to other formats.

The shell variables \$PQDIR and \$PQNAME are available to the scripts for their internal use.

Here is a typical /home/rick/.procmailrc recipe to use this program:

```
#
#       Automagically unpack geocaching locations
#
:0
* ^Subject:.*GEO] Pocket Query:
| geo-gpxmail -k
```

Requires: A subscriber login at <http://www.geocaching.com>.

**OPTIONS**

- i** Incremental (gpx2html mn-20.gpx)
- k** Kill all gpx2html processes
- d pqdir** Base directory for all PQ's [/home/rick/Caches/]
- D lvl** Debug level

**EXAMPLES**

Request and process the list of caches I have found and place it into directory /home/rick/Caches/found/

```
$ geo-demand -Nfound -qifound
```

Request and process 500 nearest caches I have not found and place it into directory /home/rick/Caches/DemandQuary1/

```
$ geo-demand -qnotfound
```

**NAME**

**geo-gpxprocess** - Process PQ **download**(s) using geo-pqdownload and gpx2html

**SYNOPSIS**

```
geo-gpxprocess [options] -n NAMES
```

**DESCRIPTION**

Process PQ **download**(s) using geo-pqdownload and gpx2html. This is good for PQs with 501-1000 caches, since they won't be emailed to you.

The results are placed under directory '\$PQDIR/<pqname>'. \$PQDIR can be set on the command line with the **-d** option, or in /home/rick/.georc. The default is PQDIR=/home/rick/Caches.

*NAMES* is composed of a string of alphabetic letters (a-zA-Z) followed by anything. The BASEPQNAME is the prefix. I.E. *NAMES*="mn-\*" and BASEPQNAME="mn". The default is "mn-\*".

If a shell script named '\$PQDIR/<pqname>/preconvert.sh' exists, it will be executed before gpx2html is run. This can be used, for example, to copy other GPX files into the current directory for merging. E.G.:

```
#!/bin/sh
cp ../found/found.gpx .
```

If a shell script named '\$PQDIR/<pqname>/postconvert.sh' exists, it will be executed after gpx2html is run. This can be used for example, to convert the gpx files to other formats.

The shell variables \$PQDIR and \$PQNAME are available to the scripts for their internal use.

Requires: A subscriber login at <http://www.geocaching.com>.

**OPTIONS**

- i** Incremental (gpx2html mn-20.gpx)
- k** Kill all gpx2html processes
- n** *NAMES*  
Download and process just *NAMES* (mn-\*)
- d** *pqdir*  
Base directory for all PQ's [/home/rick/Caches/]
- D** *lvl* Debug level

**EXAMPLES**

Request and process the list of caches from 11/05/2000 to 04/02/2004.

```
$ geo-demand -n 1000 -N mn-00 -T 11/05/2000-04/02/2004
$ sleep 1800
$ geo-gpxprocess -n "mn-*"
```

Crontab for rick:

```
$ crontab -l
18 1 1,14 * * geo-demand -n1000 -qnotsoc -T'11/05/2000-07/06/2005' -Nmn-00 "mn"
18 1 2,15 * * geo-demand -n1000 -qnotsoc -T'07/07/2005-08/24/2006' -Nmn-01 "mn"
...
18 1 12,25 * * geo-demand -n1000 -qnotsoc -T'09/25/2009-12/04/2009' -Nmn-11 "mn"
28 1 * * * geo-demand -n1000 -qnotsoc -T'12/05/2009-03/22/2010' -Nmn-12 "mn"
38 1 * * * geo-demand -n1000 -qnotsoc -T'03/23/2010-05/01/2010' -Nmn-13 "mn"
48 1 * * * geo-demand -n1000 -qnotsoc -T'05/02/2010-' -Nmn-14 "mn"
```

geo-gpxprocess(1)

geo-gpxprocess(1)

```
30 4 * * *      geo-gpxprocess -i -n "mn-*
```

**SEE ALSO**

geo-pqdownload, gpx2html

**NAME**

**geo-html2gpx**- Convert gc.com \*printable\* web pages into GPX

**SYNOPSIS**

```
geo-html2gpx [options] [gc-com.html]...
```

**DESCRIPTION**

Convert gc.com \*printable\* web pages into GPX, including cache description and all logs.

The \*printable\* web pages can be fetched using geo-nearest, geo-newest, geo-placed, geo-found, or geo-gid with the **-H** option.

**OPTIONS**

- b** Normalize output by postprocessing with gpsbabel
- e** Encode hints with rot13 (e.g. NORTH = ABEGU)
- i** Incremental, no XML and GPX headers
- l number**  
Maximum number of log entries to be exported [unlimited]
- n** No HTML in descriptions (experimental)
- o FMT**  
Output FMT instead of GPX by using gpsbabel
- u username**  
Indicate found status for username [rickrich]
- w** Do not add "Additional Waypoints" to the GPX output
- z** Do not output waypoints with "zero" coordinates
- E var=val**  
Set environment "var" to "val" i.e. DATEFMT=0|1
- D lvl** Debug level

**DEFAULTS**

Defaults can also be set with variables in file \$HOME/.georc:

```
DATEFMT=[ 0 | 1 ] ;
```

**DATE FORMATS**

Geocaching.com date formats that are compatible:

GC Format	Example	Compatible
YYYY-MM-DD	2011-07-13	yes
YYYY/MM/DD	2011/07/13	yes
MM/DD/YYYY	07/13/2011	yes
DD/MM/YYYY	13/07/2011	yes if DATEFMT=1 in \$HOME/.georc
DD/Mmm/YYYY	13/Jul/2001	no
Mmm/DD/YYYY	Jul/13/2011	no
DD Mmm YY	13 Jul 11	yes (english only)

**EXAMPLES**

Convert into GPX:

```
geo-found -n9999 -H. > /dev/null
geo-html2gpx *.html > found.gpx
```



**NAME**

**geo-htmltbl2db** - Convert HTML tables into text

**SYNOPSIS**

**geo-htmltbl2db** [*options*] [*html-file*]

**OPTIONS****-F OFS**

Output field separator string [space].

**-t nth** Process nth table only**-v FMT1=str**

Sprintf style format for field1. Use FMT2...FMT16 for other fields. A "\*" in the format, such as "%\*s", means use the width of the column in the first row to replace the "\*". "%\*.\*s" and "%-\*.s" also work.

**-v FMT=str**

Default format for all columns [%s].

**-v FCOL=num**

First column to process [1]

**-v LCOL=num**

Last column to process [max]

**-v FROW=num**

First row to process [1]

**-v LROW=num**

Last row to process [max]

**-v FTBL=num**

First table to process [1]

**-v LTBL=num**

Last table to process [max]

**-v TSEP=str**

Separate multiple tables with "str" []

**-h bool** Output table header (<th>) lines [1]**-s search**

Process after /search/ string []

**-D level**

Set debugging level [0]

**NAME**

**geo-intersect** - Compute the intersection of two lines

**SYNOPSIS**

```
geo-intersect [options] point1 point2 point3 point4
```

**DESCRIPTION**

Compute the intersection of two lines. Line segment *point1-point2* and line segment *point3-point4*.

**OPTIONS**

**-p** Planar. Disregard curvature of the surface of the earth.

**-D lvl** Debug level

**EXAMPLE**

Compute the intersection:

```
geo-intersect \  
45.04.337 w93.45.414 45.03.274 w93.38.288 \  
45.00.601 w93.21.109 44.59.668 w93.15.301
```

**NAME**

**geo-keyword** - Fetch geocaches with **keyword(s)**

**SYNOPSIS**

```
geo-keyword [options] keyword ...
```

**DESCRIPTION**

Fetch geocaches with *keyword(s)*.

Requires: A premium member (\$30/yr) OR a basic member (free) login at: <http://www.geocaching.com>  
Visit a cache page and click the "Download to EasyGPS" link at least once so you can read and agree to the license terms. Otherwise, you will not get any waypoint data.

**curl** <http://curl.haxx.se/>

**gpsbabel**  
<http://gpsbabel.sourceforge.net/>

**OPTIONS****-b bookmark**

Use list "bookmark" [none] **-q** pocket-query Use list "pocket-query" [none]

**-c** Remove cookie file when done

**-f** Do not report any found or unavailable caches

**-m** Do not report any members-only caches

**-F** Report caches found by the login 'username' as unfound

**-n num** Return "num" caches [20]

**-s** Output short names for the caches (gpsbabel option)

**-I term** Include only caches with 'term' [\*]

**-X term**

Exclude caches with 'term' [**-unavail**] terms: ~ (exclude none), unfound, ifound, soc, unavail, regular, multi, virtual, webcam, event, hybrid, cito

**-r radius**

Display only caches with radius (e.g. **-r 25M**)

**-M mystery**

Use file 'mystery' for unknown/mystery/puzzle caches [/home/rick/.geo-mystery]. Awk Format:  
gcid lat lon comment i.e: GC2CBVB n44.45.123 w93.00.321 Final

```
GC2CC1Z 44.123456 -93.564123
Cache
```

**-u username**

Username for <http://www.geocaching.com>

**-p password**

Password for <http://www.geocaching.com>

**-o format**

Output format, **-o?** for possibilities [gpsdrive] plus "gpsdrive.sql" for direct insertion into MySQL DB plus "map[,geo-map-opts]" to display a geo-map.

- O filename**  
Output file, if not stdout
- S** Alias for **-o** gpsdrive.sql
- d** For **-S**, just delete selected records
- P** For **-S**, purge all records of type **-t** Geocache\*
- t type** For **-ogpsdrive.sql**, the waypoint type [Geocache]
- H htmldir**  
Also fetch the printable HTML pages (slowly)
- L logdir**  
Also fetch the plain text log entries (slowly) For **-H** or **-L**, the limit is 1500 updated caches/day.
- ! "lpr -Plp"**  
Print HTML pages
- E var=val**  
Set environment "var" to "val" i.e. DATEFMT=0|1
- D lvl** Debug level [0]
- U** Retrieve latest version of this script

## DEFAULTS

Defaults can also be set with variables in file \$HOME/.georc:

```
PASSWORD=password;  USERNAME=username;  SOC=0|1;
LAT=latitude;      LON=logitude;      GEOMYSTERY=/dev/null;
NUM=num;           UTFMT=format;      BABELFLAGS=-s;
SQLUSER=gast;      SQLPASS=gast;      SQLDB=geoinfo;
DATEFMT=[0|1];
```

## DATE FORMATS

Geocaching.com date formats that are compatible:

GC Format	Example	Compatible
YYYY-MM-DD	2011-07-13	yes
YYYY/MM/DD	2011/07/13	yes
MM/DD/YYYY	07/13/2011	yes
DD/MM/YYYY	13/07/2011	yes if DATEFMT=1 in \$HOME/.georc
DD/Mmm/YYYY	13/Jul/2001	no
Mmm/DD/YYYY	Jul/13/2011	no
DD Mmm YY	13 Jul 11	yes (english only)

## NOTE

A basic member will get caches very slow (20 cache pages per minute) because we have to get the actual cache pages. They will be stored in: ~/.geo/caches/GCXXXX.html. Of course, after running this command, geo-html2gpx could be run.

## EXAMPLES

*geo-keyword* Big Stone Lake

## FILES

~/.georc ~/.geo/caches/

## SEE ALSO

geo-nearest, geo-newest, geo-found, geo-placed, geo-code, geo-map, geo-waypoint, <http://geo.rkkda.com/>

**NAME**

**geo-map** - Create and display a map centered about a lat/lon

**SYNOPSIS**

```
geo-map [options] latitude longitude [label [symbol]] ...
```

**DESCRIPTION**

Create and display a map centered about a *latitude/longitude*. Lat/Lon may be in DegDec, MinDec, or DMS formats.

I believe that fair use allows you to use the mapblast and expedia maps for yourself, but you CANNOT republish those maps. The tiger and terraserver/toposerver maps have no restrictions.

Acceptable formats for lat/lon are:

```
-93.49130          DegDec (decimal degrees)
W93.49130          DegDec (decimal degrees)
"-93 29.478"      MinDec (decimal minutes)
"W93 29.478"      MinDec (decimal minutes)
-93.29.478        MinDec (decimal minutes)
W93.29.478        MinDec (decimal minutes)
W 93° 29.478      Cut/paste from gc.com (note it is 3 arguments)
"-93 45 30"       DMS (degrees, minutes, seconds)
```

"*label*" can be any text and will be displayed by the waypoint. The default *label* is the coordinates in Min-Dec format, and can be explicitly selected with the *label* "@".

"*symbol*" can be these tiger-style symbols

```
cross, redstar, bluestar
<clr>pin
<clr>dot<size>
  <clr> is red, grn, blu, org, pur, mag, brn, lgr, cyn, gry, wht
  e.g. redden10
```

"*symbol*" can also be these extensions:

```
cross,<color>,<size>
dot,<color>,<diameter>
  <color> is any color allowed by convert(1)
  <size> is the length in pixels of the crosses or the diameter
  of the dot.
```

```
circle,<color>,<radius>
circle,<color>,<radius>,<thick>
  <radius> is in pixels, meters(m), kilometers(km),
  feet(ft), or miles(mi).
```

gc

Do geocaching.com circle of radius 0.1miles

```
hline,<color>,<thick>
vline,<color>,<thick>
xhair,<color>,<thick>
<filename>.{gif,jpg,png}
<filename>.{gif,jpg,png},xsize,ysize
<filename>.{gif,jpg,png},xsize,ysize,xoff,yoff
geocache-event geocache-hybrid geocache-multi geocache-regular
geocache-unknown geocache-virtual geocache-webcam geocache-moving
geocache-ifound-event geocache-ifound-hybrid geocache-ifound-multi
```

geocache-ifound-regular geocache-ifound-unknown geocache-ifound-virtual  
 geocache-ifound-webcam geocache-ifound-moving  
 geocache-unfound-event geocache-unfound-hybrid  
 geocache-unfound-multi geocache-unfound-regular  
 geocache-unfound-unknown geocache-unfound-virtual  
 geocache-unfound-webcam geocache-unfound-moving

The default *symbol* is "cross,red,10" and can be explicitly selected with the *symbol "@"*.

## OPTIONS

### -a number

Use map source number/name: [osm]

#### 1 mapblast/vicinity

2 expedia 3 tiger

#### 4 terraserver

5 toposerver (free USGS)

#### 6 gc 7 gc-icons

8 multimap (worldwide) 9 multimap-aerial (UK only)

13 tscom OR citipix OR globex OR tscom:citipix OR tscom:airphoto OR tscom:digitalglobe OR tscom:globex OR tscom:getmapping OR tscom:getmappingultra. Best is 22544:1 unless a terraserver.com member who sets TSCOM\_EMAIL and TSCOM\_PW in \$HOME.georc.

20 osm OR osmmapnik OR osmapnik

21 osma OR osmarender

30 aolterra

40 gmap

### -a black

Black map

### -a white

White map

-a gray Gray map (for no map at all)

-a url Don't generate a map, instead output a URL link.

-a file.gif Overlay existing gif or png image with waypoints.

-c Label map with coordinates

-C Force 1st comand line coordinate to be the center

-m Do not display **marker**(s) (symbols)

-s scale Map scale NNNNN:1 [10K]

Units modifiers: K = 1,000 and M = 1,000,000

N.B. A 1024 pixel map at a scale of 10K is 2.26 miles.

Or specify the scale by image resolution: NNNmpp = meters/pixel, NNNfpp or NNNft = feet/pixel, NNNipp or NNNin = inches/pixel (6in res for some sources)

-s 0 Autoscale. Use bounding box of waypoints.

### -r radius

Minimum 'radius' (square circle) for autoscaled map. Units are in degrees unless suffixed with km or mi.

**-R radius**

Maximum 'radius' (square circle) for autoscaled map. Units are in degrees unless suffixed with km or mi.

**-S symbol**

Set the default *symbol* [cross,red,10]

**-W width**

Width of image in pixels [1280]

**-H height**

Height of image in pixels [1024]

**-o file** Save map in file, do not display it. Also:

**-o www**

Upload: put-rkkda rkkda/tmp 111.jpg

**-o www:file** Upload: put-rkkda rkkda/tmp file

**-h file** Write an HTML imagemap to file. Requires **-t** and **-o**. If the file is +file, then append the map to the file.

**-i** Use smaller icons and labels. Drop coordinates from *label*.

**-t waypoints**

A file of waypoints to plot in tabsep, GPX, LOC, or in

extended Tiger format:

```
LONG,LAT:SYMBOL:LABEL:URL
```

The map will be centered about the 1st command line coordinate. If there isn't one, it will be centered about the bounding box of the coordinates.

**-g mins[,color]** Add a lat/lon grid every minutes (decimal allowed). Suffix mins with "d" for degrees. Grid lines are red unless "color" is specified.

**-T "title"**

Title to put on image. **-F "footer"** Footer to put on image. Escapes for **-T** and **-F**: %a positional params %A entire command line **-j dir[,amt]** Jog the center of the picture to n/s/e/w/ne/se/nw/sw by 80%

**-P file** Output gpsbabel polygon (square) to file

**-D lvl** Debug level [0]

**-U** Retrieve latest version of this script

Defaults can also be set with variables in file \$HOME/.georc:

```
MAPSRC=number; MAPSCALE=scale; MAPWIDTH=width; MAPHEIGHT=height;
MAPTEXTBG=white #Can also use #rrggbbaa and "none" for no box
MAPTEXTFG=black #Can also use #rrggbbaa
```

**EXAMPLES**

A single waypoint displayed on a map, *label* is lat/lon:

```
geo-map 45.50.501 W93.23.609
```

Two waypoints, map scale determined automatically:

```
geo-map -s0 N44.48.938 W093.31.988 riley cross \
      N44.49.245 W093.30.507 yogurt redstar
```

Many waypoints from a Tiger-style waypoint file:

```
geo-map -s0 -t /tmp/mngca/TwinCities.tiger
```

A mailable URL from a Tiger-style waypoint file:

```
geo-map -aurl -s0 -t /tmp/mngca/TwinCities.tiger
```

An HTML imagemap from a Tiger-style waypoint file:

```
geo-map -s0 -t test.tiger -h test.html -o test.gif
```

A GIANT imagemap of Twin Cities area caches:

```
geo-map -a3 -s30k -W7400 -H7000 -m -o map.png 45 -93.25
```

```
geo-nearest -ogpx -n700 45 -93.25 > tc700.gpx
```

```
geo-map -a map.png -t tc700.gpx -s30k -o big.png -h big.html 45 -93.25
```

A google map with 0.1mi circles:

```
geo-map -S gc -a gmap -t ~/Caches/xxx.gpx -o www:xxx.html
```

## SEE ALSO

geo-code, geo-nearest, geo-pg, geo-waypoint, <http://geo.rkkda.com/>

**NAME**

**geo-myfinds** - Schedule a Pocket Query containing your finds

**SYNOPSIS**

**geo-myfinds** [*options*]

**DESCRIPTION**

Schedule a Pocket Query containing your finds. GC limits them to every 3 days.

Crontab Entry:

```
# 3AM on the 1st, ..., 25th of the month (i.e. 4 days)
0 3 1,5,9,13,17,21,25 * * geo-myfinds
0 11 1,5,9,13,17,21,25 * * geo-pqdownload -n "My*" -z
```

Requires:

- A premium subscriber login at <http://www.geocaching.com>.

**- curl**

<http://curl.haxx.se/>

**OPTIONS**

**-u username**

Username for <http://www.geocaching.com>

**-p password**

Password for <http://www.geocaching.com>

**-U** Retrieve latest version of this script

**-D lvl** Debug level [0]

Defaults can also be set with variables in file `$HOME/.georc`:

```
PASSWORD=password; USERNAME=username;
```

**SEE ALSO**

[geo-demand](#), [geo-newest](#), [geo-found](#), [geo-placed](#), [geo-nearest](#), [geo-pqdownload](#), <http://geo.rkkda.com/>

**NAME**

**geo-mystery** - Copy tabsep from in to out, obeying ~/.geo-mystery

**SYNOPSIS**

**geo-mystery** [*options*]

**DESCRIPTION**

Copy tabsep from in to out, obeying ~/.**geo-mystery**

**OPTIONS**

- m** Only mystery
- D lvl** Debug level

**NAME**

**geo-nearest** - Fetch a list of nearest geocaches

**SYNOPSIS**

```

geo-nearest [options]
geo-nearest [options] latitude longitude
geo-nearest [options] zipcode
geo-nearest [options] u=<username>
geo-nearest [options] pq=<pocket-query>
geo-nearest [options] tx=<bookmark-id>
geo-nearest [options] -b bookmark
geo-nearest [options] guid=<bookmark-id>

```

**DESCRIPTION**

Fetch a list of nearest geocaches.

Requires: A premium member (\$30/yr) OR a basic member (free) login at: <http://www.geocaching.com>  
 Visit a cache page and click the "Download to EasyGPS" link at least once so you can read and agree to the license terms. Otherwise, you will not get any waypoint data.

**curl** <http://curl.haxx.se/>

**gpsbabel**  
<http://gpsbabel.sourceforge.net/>

**OPTIONS**

**-b** *bookmark*  
 Use list "*bookmark*" [none] **-q** *pocket-query* Use list "pocket-query" [none]

**-c** Remove cookie file when done

**-f** Do not report any found or unavailable caches

**-m** Do not report any members-only caches

**-F** Report caches found by the login 'username' as unfound

**-n num** Return "num" caches [20]

**-s** Output short names for the caches (gpsbabel option)

**-I term** Include only caches with 'term' [\*]

**-X term**  
 Exclude caches with 'term' [**-unavail**] terms: ~ (exclude none), unfound, ifound, soc, unavail, regular, multi, virtual, webcam, event, hybrid, cito

**-r radius**  
 Display only caches with radius (e.g. **-r** 25M)

**-M mystery**  
 Use file 'mystery' for unknown/mystery/puzzle caches [/home/rick/.geo-mystery]. Awk Format:  
 gcid lat lon comment i.e: GC2CBVB n44.45.123 w93.00.321 Final  
**GC2CC1Z 44.123456 -93.564123**  
 Cache

- u username**  
Username for http://www.geocaching.com
- p password**  
Password for http://www.geocaching.com
- o format**  
Output format, **-o?** for possibilities [gpsdrive] plus "gpsdrive.sql" for direct insertion into MySQL DB plus "map[,geo-map-opts]" to display a geo-map.
- O filename**  
Output file, if not stdout
- S** Alias for **-o** gpsdrive.sql
- d** For **-S**, just delete selected records
- P** For **-S**, purge all records of type **-t** Geocache\*
- t type** For **-ogpsdrive.sql**, the waypoint type [Geocache]
- H htmdir**  
Also fetch the printable HTML pages (slowly)
- L logdir**  
Also fetch the plain text log entries (slowly) For **-H** or **-L**, the limit is 1500 updated caches/day.
- ! "lpr -Plp"**  
Print HTML pages
- E var=val**  
Set environment "var" to "val" i.e. DATEFMT=0|1
- D lvl** Debug level [0]
- U** Retrieve latest version of this script

**DEFAULTS**

Defaults can also be set with variables in file \$HOME/.georc:

```
PASSWORD=password;  USERNAME=username;  SOC=0|1;
LAT=latitude;      LON=logitude;      GEOMYSTERY=/dev/null;
NUM=num;           OUTFMT=format;      BABELFLAGS=-s;
SQLUSER=gast;      SQLPASS=gast;       SQLDB=geoinfo;
DATEFMT=[ 0|1];
```

**DATE FORMATS**

Geocaching.com date formats that are compatible:

GC Format	Example	Compatible
YYYY-MM-DD	2011-07-13	yes
YYYY/MM/DD	2011/07/13	yes
MM/DD/YYYY	07/13/2011	yes
DD/MM/YYYY	13/07/2011	yes if DATEFMT=1 in \$HOME/.georc
DD/Mmm/YYYY	13/Jul/2001	no
Mmm/DD/YYYY	Jul/13/2011	no
DD Mmm YY	13 Jul 11	yes (english only)

**NOTE**

A basic member will get caches very slow (20 cache pages per minute) because we have to get the actual cache pages. They will be stored in: ~/.geo/caches/GCXXXX.html. Of course, after running this command, geo-html2gpx could be run.

**EXAMPLES**

Nearest 20 caches, display shortnames:

```
geo-nearest -s
```

Search nearest 500 caches for virtual caches not yet found:

```
geo-nearest -n500 -Ivirtual -Xifound
```

Add nearest 50 caches to a GpsDrive SQL database

```
geo-nearest -n50 -f -s -S
```

Purge the existing SQL database of all geocaches, and fetch 200 fresh ones...

```
geo-nearest -S -P -s -n200
```

640x480 map of nearest caches using map source 2:

```
geo-nearest -omap,"-a2 -W640 -H480"
```

Copy two cachers:

```
geo-nearest -n200 -Xifound -udyl1231 -pPW | awk '{print $1}' >1.foo
geo-nearest -n200 -Xifound -urickrich -pPW |awk '{print $1}' >2.foo
geo-gid -otabsep $(comm -12 1.foo 2.foo) >both
```

Fetch by owner:

```
geo-nearest u=team-deadhead
```

Fetch by tx method:

```
# nearby caches of this (puzzle) type, that I haven't found
geo-nearest -n500 -f -otabsep tx=40861821-1835-4e11-b666-8d41064d03fe |
  geo-mystery >> Caches/rick.ts
```

Also, tx=webcam, tx=earth, tx=multi, tx=event, tx=virtual, tx=letter, tx=unknown, tx=trad (tx=reg is an alias).

Fetch a *bookmark* list:

```
geo-nearest -b acro
or
geo-nearest guid=baae5bf9-4315-4874-b7fb-ac84c9585641
```

Fetch a PQ query:

```
geo-nearest -q "Needs Maintenance"
or
geo-nearest pq=08be103b-ffd1-4e27-992f-616e144e24df
```

**FILES**

```
~/georc ~/.geo/caches/
```

**SEE ALSO**

geo-newest, geo-found, geo-placed, geo-keyword, geo-code, geo-map, geo-waypoint, <http://geo.rkkda.com/>

**NAME**

**geo-newest** - Fetch a list of newest geocaches

**SYNOPSIS**

```
geo-newest [options] [country] [state]
geo-newest [options] [state]
geo-newest [options] [state] [lat] [lon]
```

**DESCRIPTION**

Fetch a list of newest geocaches. "*state*" is only available for USA.

Requires: A premium member (\$30/yr) OR a basic member (free) login at: <http://www.geocaching.com>  
Visit a cache page and click the "Download to EasyGPS" link at least once so you can read and agree to the license terms. Otherwise, you will not get any waypoint data.

```
curl    http://curl.haxx.se/
gpsbabel
          http://gpsbabel.sourceforge.net/
```

**OPTIONS**

- b bookmark**  
Use list "bookmark" [none] **-q pocket-query** Use list "pocket-query" [none]
- c** Remove cookie file when done
- f** Do not report any found or unavailable caches
- m** Do not report any members-only caches
- F** Report caches found by the login 'username' as unfound
- n num** Return "num" caches [20]
- s** Output short names for the caches (gpsbabel option)
- I term** Include only caches with 'term' [\*]
- X term**  
Exclude caches with 'term' [**-unavail**] terms: ~ (exclude none), unfound, ifound, soc, unavail, regular, multi, virtual, webcam, event, hybrid, cito
- r radius**  
Display only caches with radius (e.g. **-r 25M**)
- M mystery**  
Use file 'mystery' for unknown/mystery/puzzle caches [/home/rick/.geo-mystery]. Awk Format:  
gcid *lat lon* comment i.e: GC2CBVB n44.45.123 w93.00.321 Final  
**GC2CC1Z 44.123456 -93.564123**  
Cache
- u username**  
Username for <http://www.geocaching.com>
- p password**  
Password for <http://www.geocaching.com>
- o format**  
Output format, **-o?** for possibilities [gpsdrive] plus "gpsdrive.sql" for direct insertion into MySQL DB plus "map[,geo-map-opts]" to display a geo-map.

- O filename**  
Output file, if not stdout
- S** Alias for **-o** gpsdrive.sql
- d** For **-S**, just delete selected records
- P** For **-S**, purge all records of type **-t** Geocache\*
- t type** For **-ogpsdrive.sql**, the waypoint type [Geocache]
- H htmldir**  
Also fetch the printable HTML pages (slowly)
- L logdir**  
Also fetch the plain text log entries (slowly) For **-H** or **-L**, the limit is 1500 updated caches/day.
- ! "lpr -Plp"**  
Print HTML pages
- E var=val**  
Set environment "var" to "val" i.e. DATEFMT=0|1
- D lvl** Debug level [0]
- U** Retrieve latest version of this script

## DEFAULTS

Defaults can also be set with variables in file \$HOME/.georc:

```
PASSWORD=password;  USERNAME=username;  SOC=0|1;
LAT=latitude;      LON=logitude;      GEOMYSTERY=/dev/null;
NUM=num;           UTFMT=format;      BABELFLAGS=-s;
SQLUSER=gast;      SQLPASS=gast;      SQLDB=geoinfo;
DATEFMT=[0|1];
```

## DATE FORMATS

Geocaching.com date formats that are compatible:

GC Format	Example	Compatible
YYYY-MM-DD	2011-07-13	yes
YYYY/MM/DD	2011/07/13	yes
MM/DD/YYYY	07/13/2011	yes
DD/MM/YYYY	13/07/2011	yes if DATEFMT=1 in \$HOME/.georc
DD/Mmm/YYYY	13/Jul/2001	no
Mmm/DD/YYYY	Jul/13/2011	no
DD Mmm YY	13 Jul 11	yes (english only)

## NOTE

A basic member will get caches very slow (20 cache pages per minute) because we have to get the actual cache pages. They will be stored in: ~/.geo/caches/GCXXXX.html. Of course, after running this command, geo-html2gpx could be run.

## EXAMPLES

Add newest 50 caches to a GpsDrive SQL database

```
geo-newest -n50 -f -s -S MN
```

Purge the existing SQL database of all geocaches, and fetch 200 fresh ones...

```
geo-newest -S -P -s -n200 MN
```

Create a GPX file of all caches in MN, including all logs. This will take several hours to run, and should only be run at night.

```
geo-newest -X "" -n2000 -D1 -H html MN > junk
geo-html2gpx -b html/*.html > all-mn.gpx
```

Fetch *country* Iraq:

```
geo-newest -s Iraq
```

Fetch *country* Germany, *state* Berlin:

```
geo-newest -s Germany Berlin
```

Fetch *country* Germany, *state* Berlin by code:

```
geo-newest -s c79 s137
```

## FILES

~/.georc ~/.geo/caches/

## SEE ALSO

geo-countries-states geo-nearest, geo-found, geo-placed, geo-keyword, geo-code, geo-map, geo-waypoint,  
<http://geo.rkkda.com/>

**NAME**

**geo-placed** - Fetch a list of geocaches placed by a user

**SYNOPSIS**

```
geo-placed [options] [username]
```

```
geo-placed [options] [username] [lat] [lon]
```

**DESCRIPTION**

Fetch a list of geocaches placed by a specific user.

Requires: A premium member (\$30/yr) OR a basic member (free) login at: <http://www.geocaching.com>  
Visit a cache page and click the "Download to EasyGPS" link at least once so you can read and agree to the license terms. Otherwise, you will not get any waypoint data.

```
curl    http://curl.haxx.se/
```

```
gpsbabel  
http://gpsbabel.sourceforge.net/
```

**OPTIONS****-b bookmark**

Use list "bookmark" [none] **-q** pocket-query Use list "pocket-query" [none]

**-c** Remove cookie file when done

**-f** Do not report any found or unavailable caches

**-m** Do not report any members-only caches

**-F** Report caches found by the login '*username*' as unfound

**-n num** Return "num" caches [20]

**-s** Output short names for the caches (gpsbabel option)

**-I term** Include only caches with 'term' [\*]

**-X term**

Exclude caches with 'term' [\_NoThInG\_] terms: ~ (exclude none), unfound, ifound, soc, unavail, regular, multi, virtual, webcam, event, hybrid, cito

**-r radius**

Display only caches with radius (e.g. **-r 25M**)

**-M mystery**

Use file 'mystery' for unknown/mystery/puzzle caches [/home/rick/.geo-mystery]. Awk Format: gcid *lat lon* comment i.e: GC2CBVB n44.45.123 w93.00.321 Final

```
GC2CC1Z 44.123456 -93.564123
```

```
Cache
```

**-u username**

Username for <http://www.geocaching.com>

**-p password**

Password for <http://www.geocaching.com>

**-o format**

Output format, **-o?** for possibilities [gpsdrive] plus "gpsdrive.sql" for direct insertion into MySQL DB plus "map[,geo-map-opts]" to display a geo-map.

- O filename**  
Output file, if not stdout
- S** Alias for **-o** gpsdrive.sql
- d** For **-S**, just delete selected records
- P** For **-S**, purge all records of type **-t** Geocache\*
- t type** For **-ogpsdrive.sql**, the waypoint type [Geocache]
- H htmldir**  
Also fetch the printable HTML pages (slowly)
- L logdir**  
Also fetch the plain text log entries (slowly) For **-H** or **-L**, the limit is 1500 updated caches/day.
- ! "lpr -Plp"**  
Print HTML pages
- E var=val**  
Set environment "var" to "val" i.e. DATEFMT=0|1
- D lvl** Debug level [0]
- U** Retrieve latest version of this script

**DEFAULTS**

Defaults can also be set with variables in file \$HOME/.georc:

```
PASSWORD=password;  USERNAME=username;  SOC=0|1;
LAT=latitude;      LON=logitude;      GEOMYSTERY=/dev/null;
NUM=num;           UTFMT=format;      BABELFLAGS=-s;
SQLUSER=gast;     SQLPASS=gast;      SQLDB=geoinfo;
DATEFMT=[0|1];
```

**DATE FORMATS**

Geocaching.com date formats that are compatible:

GC Format	Example	Compatible
YYYY-MM-DD	2011-07-13	yes
YYYY/MM/DD	2011/07/13	yes
MM/DD/YYYY	07/13/2011	yes
DD/MM/YYYY	13/07/2011	yes if DATEFMT=1 in \$HOME/.georc
DD/Mmm/YYYY	13/Jul/2001	no
Mmm/DD/YYYY	Jul/13/2011	no
DD Mmm YY	13 Jul 11	yes (english only)

**NOTE**

A basic member will get caches very slow (20 cache pages per minute) because we have to get the actual cache pages. They will be stored in: ~/.geo/caches/GCXXXX.html. Of course, after running this command, geo-html2gpx could be run.

**EXAMPLES**

List the most recent 50 caches placed by dyl1231:

```
geo-placed -s -n50 dyl1231
```

List the most recent caches placed by dyl1231 that are with a radius of 15 miles of your home location:

```
geo-placed -s -r15M dyl1231
```

List the most recent caches placed by dyl1231 that are with a radius of 15 miles of a specific location:

```
geo-placed -s -r50 dyl1231 N47.20.000 W121.30.000
```

Display a map of the 20 newest caches placed by dyl1231:

```
geo-placed -omap,-a2 -F dyl1231
```

Make a backup copy of all of my caches placed (can take awhile):

```
geo-placed -n999 -H descdir -L logdir -otabsep > placed.tabsep
```

**FILES**

`~/georc` `~/geo/caches/`

**SEE ALSO**

`geo-found`, `geo-nearest`, `geo-newest`, `geo-keyword`, `geo-code`, `geo-waypoint`, <http://geo.rkkda.com/>

**NAME**

**geo-poi** - Lookup places in Place Guide or POI Factory files

**SYNOPSIS**

```
geo-poi [options] pg.pdb ...
geo-poi [options] lat lon
geo-poi [options] last
geo-poi [options] place.csv ...
```

**DESCRIPTION**

**geo-poi** [*options*] pg.pdb ...

Lookup place locations in Mapopolis in pg.pdb Place Guide files, and format them for output in any of the output file types that gpsbabel supports, or directly import them into the GpsDrive MySQL waypoint database.

**geo-poi** [*options*] lat lon

Like the above, except derive the implied list of searched PDB files by consulting an index of placeguide PDB files in /home/rick/.geopoi. A PDB index can be produced with a command like this:

```
for i in */*.pdb; do pgpdb2txt -r `pwd`/$i; done > ~/.geopoi
```

**geo-poi** [*options*] last

Like the above, except determine the current lat/lon from GpsDrive's lastlong/lastlat values in the \$HOME/.gpsdrive/gpsdriverc file.

**geo-poi** [*options*] places.csv ...

Lookup place locations in POI Factory places.csv files, and format them for output in any of the output file types that gpsbabel supports, or directly import them into the GpsDrive MySQL waypoint database.

Requires:

```
curl    http://curl.haxx.se/
gpsbabel
          http://gpsbabel.sourceforge.net
```

**OPTIONS****-c category**

Select category [\*] Can use shell-style \* globbing to match the category

**-n name**

Select name [\*] Can use shell-style \* globbing to match the name

**-l**

List available categories in .pdb files and exit With -c, list raw records in category and exit

**-t type**

The waypoint type to output [<category-in-pdb-file>]

**-o format**

Output format, **-o?** for possibilities [gpsdrive] plus "gpsdrive.sql" for direct insertion into MySQL DB plus "txt" for raw text records

**-o mindec**

Output *lat/lon* in MinDec (44.56.123) mode.

**-S** Alias for **-o** gpsdrive.sql

**-d** For **-S**, just delete selected records0

**-r radius**

Radius value for implied list of PDB files [5]

**-D lvl** Debug level

**-U** Retrieve latest version of this script

**EXAMPLES**

**geo-poi -cHotels** FredericksburgCityVA-PG.pdb

**geo-poi -cRest\* -t** Restaurant FredericksburgCityVA-PG.pdb

**geo-poi -S -c** Dunn ~/poi/Dunn\_Brothers\_Coffee.csv

**SEE ALSO**

geo-code, geo-waypoint, geo-nearest, <http://geo.rkkda.com/>

**NAME**

**geo-pqdownload** - Perform a Pocket Query **download(s)**

**SYNOPSIS**

**geo-pqdownload** [*options*]

**DESCRIPTION**

Pocket Query download. For PQ's from 501 to 1000 waypoints, because the gc site does not email them (as of May 10, 2010). Go figure!!!

**OPTIONS**

- c** Remove cookie file when done
- d** Delete the files from the server
- n NAME**  
Search for NAMEs, globbing allowed
- t name**  
Construct name using strftime specifiers, PLUS %+ for the actual name. I.E. **-t %m%d-%+**
- z** Unzip the files
- u username**  
Username for http://www.geocaching.com
- p password**  
Password for http://www.geocaching.com
- U** Retrieve latest version of this script
- D lvl** Debug level [0]

Defaults can also be set with variables in file \$HOME/.georc:

```
PASSWORD=password;  USERNAME=username;
LAT=latitude;      LON=logitude;
```

**EXAMPLES**

Download all files:

```
$ geo-pqdownload -d -z
mn-09 http://www.geocaching.com/pocket/downloadpq.ashx?g=ba2e0520...
mn-28 http://www.geocaching.com/pocket/downloadpq.ashx?g=41a95f02...
mn-29 http://www.geocaching.com/pocket/downloadpq.ashx?g=cff93db9...
mn-30 http://www.geocaching.com/pocket/downloadpq.ashx?g=e5049240...
$ ls *.zip *.gpx
mn-09.gpx      mn-28.gpx      mn-29.gpx      mn-30.gpx
mn-09-wpts.gpx  mn-28-wpts.gpx  mn-29-wpts.gpx  mn-30-wpts.gpx
mn-09.zip      mn-28.zip      mn-29.zip      mn-30.zip
```

Download "My Finds.." files:

```
$ geo-pqdownload -d -z -n "My*"
```

Download "My Finds.." files prefixed with year-month-day:

```
$ geo-pqdownload -d -z -n "My*" -t %Y-%m-%d-%+
$ ls *My*
2011-05-06-My Finds Pocket Query.zip
```

geo-pqdownload(1)

geo-pqdownload(1)

**SEE ALSO**

geo-countries-states geo-newest, geo-found, geo-placed, geo-nearest, strftime, <http://geo.rkkda.com/>

**NAME**

**geo-pqs** - Run PQ's to get all caches in a state or country

**SYNOPSIS**

```
geo-pqs [options] state_or_country
geo-pqs [options] country state
```

**DESCRIPTION**

Run pocket queries to get all caches in a *state* or *country*.

**OPTIONS**

```
-c      Crontab output
-w      Weekly crontab output, with -c
-l PQLIM
          Limit PQ size to PQLIM (500)
-n NUM
          Limit total caches to NUM (99999)
-d N[+-]
          Difficulty level [1+]
-t N[+-]
          Terrain level [1+]
-f      Do not report any found or unavailable caches
-q qualifiers
          Limit by one or more space/comma separated qualifiers:
              Type: these ones OR together....
                  traditional, multi, virtual, letterbox, event,
                  mystery, webcam, locationless, trash
              Container: these ones OR together....
                  small, other, none, large, regular, micro, unknown
-D lvl  Debug level
```

**EXAMPLES**

List PQs:

```
$ geo-pqs mn
geo-demand -n500 -T'11/05/2000-11/10/2003' -Nmn-00 mn #499 caches
geo-demand -n500 -T'11/11/2003-10/17/2004' -Nmn-01 mn #497 caches
geo-demand -n500 -T'10/18/2004-07/27/2005' -Nmn-02 mn #498 caches
geo-demand -n500 -T'07/28/2005-01/28/2006' -Nmn-03 mn #494 caches
geo-demand -n500 -T'01/29/2006-05/09/2006' -Nmn-04 mn #500 caches
geo-demand -n500 -T'05/10/2006-07/27/2006' -Nmn-05 mn #500 caches
geo-demand -n500 -T'07/28/2006-10/05/2006' -Nmn-06 mn #498 caches
geo-demand -n500 -T'10/07/2006-12/23/2006' -Nmn-07 mn #492 caches
geo-demand -n500 -T'12/24/2006-03/31/2007' -Nmn-08 mn #495 caches
geo-demand -n500 -T'04/01/2007-05/27/2007' -Nmn-09 mn #487 caches
geo-demand -n500 -T'05/28/2007-07/13/2007' -Nmn-10 mn #494 caches
geo-demand -n500 -T'07/14/2007-' -Nmn-11 mn #107 caches
```

Crontab for rick:

```
$ crontab -l
```

geo-pqs(1)

geo-pqs(1)

```
34 1 * * 0      geo-demand -n500 -T'11/05/2000-11/10/2003' -Nmn-00 mn
34 1 * * 1      geo-demand -n500 -T'11/11/2003-10/17/2004' -Nmn-01 mn
34 1 * * 2      geo-demand -n500 -T'10/18/2004-07/27/2005' -Nmn-02 mn
34 1 * * 3      geo-demand -n500 -T'07/28/2005-01/28/2006' -Nmn-03 mn
34 1 * * 4      geo-demand -n500 -T'01/26/2006-05/09/2006' -Nmn-04 mn
34 1 * * 5      geo-demand -n500 -T'05/10/2006-07/27/2006' -Nmn-05 mn
34 1 * * 6      geo-demand -n500 -T'07/28/2006-10/05/2006' -Nmn-06 mn
39 1 * * 1,3,5  geo-demand -n500 -T'10/07/2006-12/23/2006' -Nmn-07 mn
39 1 * * 0,2,4,6 geo-demand -n500 -T'12/24/2006-03/31/2007' -Nmn-08 mn
44 1 * * 1,3,5  geo-demand -n500 -T'04/01/2007-05/27/2007' -Nmn-09 mn
44 1 * * 0,2,4,6 geo-demand -n500 -T'05/28/2007-07/13/2007' -Nmn-10 mn
49 1 * * *      geo-demand -n500 -T'07/14/2007-' -Nmn-11 mn #107 caches 07/23/07
```

Filter:

```
$ geo-pqs -qtrad,small,regular,large -d2- mn
```

Country and State:

```
$ geo-pqs Australia "Northern Territory"
```

**SEE ALSO**

geo-demand, geo-countries-states

**NAME**

**geo-procmail** - procmailrc script for geocaching

**SYNOPSIS**

```
geo-procmail [options]
```

**DESCRIPTION**

This is a procmailrc script for geocaching. It will turn the "http://www.geocaching.com/seek/cache\_details.aspx?..." into "http://www.geocaching.com/seek/cdpf.aspx?" so that you can get the print-friendly pages.

**EXAMPLE**

In \$HOME/.procmailrc:

```
#
#      GEO: Print friendly, decrypt
#
:0f
* ^Subject:. *GEO] Notify: Surfer Joe
| geo-procmail
```

**OPTIONS**

**-D lvl** Debug level

**NAME**

**geo-project** - Project a waypoint

**SYNOPSIS**

**geo-project** [*options*] *lat1 lon1 distance bearing*

**DESCRIPTION**

Project a waypoint.

lat/lon can be specified in DegDec or dotted MinDec format. *distance* is in miles unless suffixed with km, m, or ft. *bearing* is in compass degrees or n, ne, e, se, s, sw, w, nw.

**OPTIONS**

- e** Use WGS 1984 ellipsoid calculation method [default]
- u** Use UTM calculation method
- l** Output decimal latitude only (for scripts)
- L** Output decimal longitude only (for scripts)
- D lvl** Debug level

**EXAMPLES**

Project a waypoint 13147.2 feet at 38 degrees:

```
$ geo-project 44.47.151 -93.14.094 13147.2ft 38
wp = 44.814260 -93.203712          n44.48.856 w93.12.223
```

**NAME**

**geo-rehides** - Output a new GPX file containing just rehides

**SYNOPSIS**

**geo-rehides** *finder-name* file.gpx > rehides.gpx

Requires: A *subscriber login* at <http://www.geocaching.com>.

**DESCRIPTION**

Output a new GPX file containing just rehides as far as *finder-name* is concerned (e.g. date placed > date found).

**NAME**

**geo-sdt** - Replace Size, Difficulty, Terrain from a PQ file

**SYNOPSIS**

```
geo-sdt [options] pq.ts
```

**DESCRIPTION**

Replace Size, Difficulty, Terrain in a tabsep file from a Pocket Query. Read it from stdin and write it to stdout.

This is used for geo-nearest/geo-newest.

**OPTIONS**

**-H** Also do hints

**-D lvl** Debug level

**EXAMPLES**

Replace:

```
gpsbabel -i gpx -f ~/Caches/mn.gpx -o tabsep -F ~/Caches/mn.ts  
geo-nearest -otabsep | geo-sdt ~/Caches/mn.ts > ~/Caches/rick.ts
```

**SEE ALSO**

**update-caches(1)**

**NAME**

**geo-soon** - Outputs a list of submitted but unapproved caches

**SYNOPSIS**

```
geo-soon [options]
geo-soon [options] lat lon
```

**DESCRIPTION**

Outputs a list of submitted but unapproved caches. This script first finds the cache number of the most recently submitted cache, anywhere in the world. Then, beginning "**-n num**" (1000) caches before that, it fetches the LOC information for caches that have been submitted but are not yet (and may never be) approved. It filters these caches to the specified radius around your *lat/lon*.

The exploit that makes this possible is that the LOC info is returned even though the caches aren't approved.

The amount of information available for these caches is very limited. The GC id, cache name and owner, and *lat/lon* are all that you get.

It would be foolish, and unethical, to search for these caches before they are approved. They could be puzzles, multis, virtuals -- there is no way to know. But, you might use this information to keep a closer vigil on new approvals. Whether that is ethical or not is up to you. I'm just the toolsmith -- if a tool \*can\* be written, I'm inclined to write it. Kinda like a gun maker.

Another use is to check up on your approver, to see how long approvals are taking.

IMPORTANT: The **-r** radius flag limits the output to your area! Otherwise, this command will take a long time to run.

**OPTIONS**

- c** Remove cookie file when done
- n num** Search within the last 'num' caches [1000]
- s** Output short names for the caches (gpsbabel option)
- r radius**  
Show only caches within radius (e.g. **-r 25M**) [35]
- u username**  
Username for <http://www.geocaching.com>
- p password**  
Password for <http://www.geocaching.com>
- o format**  
Output format, **-o?** for possibilities [gpsdrive] plus "gpsdrive.sql" for direct insertion into MySQL DB plus "map[,geo-map-opts]" to display a geo-map.
- O filename**  
Output file, if not stdout
- S** Alias for **-o gpsdrive.sql**
- d** For **-S**, just delete selected records
- P** For **-S**, purge all records of type **-t Geocache-soon\***
- t type** For **-ogpsdrive.sql**, the waypoint type [Geocache-soon]
- D lvl** Debug level [0]

**-U** Retrieve latest version of this script

Defaults can also be set with variables in file \$HOME/.georc:

```
PASSWORD=password;  USERNAME=username;  SOC=0 | 1;
LAT=latitude;      LON=logitude;
NUM=num;           OUTFMT=format;      BABELFLAGS=-s;
SQLUSER=gast;      SQLPASS=gast;      SQLDB=geoinfo;
```

## EXAMPLES

**geo-soon**

**geo-soon** N33.48.566 W117.50.099

## SEE ALSO

geo-newest, geo-found, geo-placed, geo-nearest, <http://geo.rkkda.com/>

**NAME**

**geo-state** - Get a state

**SYNOPSIS**

*geo-state* [*options*] *state*

**DESCRIPTION**

Get *state* by:

```
cd ~/Caches
geo-newest -n4000 -H $ss/tmp $SS >/dev/null
geo-html2gpx $ss/tmp/*.html >$ss/$ss.gpx
(cd $ss; gpx2html)
geo-2gpsdrive -s -S -igpx $ss/$ss.gpx
```

**OPTIONS**

**-D lvl** Debug level

**EXAMPLE**

*geo-state* sd

**NAME**

**geo-suffix** - Replace name with name/TypeSizeDiffTerr/gcid/LatLon

**SYNOPSIS**

**geo-suffix** [*options*] [*file*]

**DESCRIPTION**

Process a "tabsep" format on stdin or "*file*" and produce a "tabsep" format on stdout. Replace name with name/TypeSizeDiffTerr/gcid/LatLon.

```
Type      Tr, Mu, Un, etc.
Size      Mi, Sm, Re, etc.
Diff      1, 1+, 2, 2+, etc.
Terr      1, 1+, 2, 2+, etc.
gcid      GC1H6YH equals 1H6YH
Lat       last 3 digits of latitude
Lon       last 3 digits of longitude
```

Also, print only "Events" if they are one day before or on the actual day.

For TomTom, nuvi, etc.

**EXAMPLES**

Convert to TomTom:

```
geo-suffix < example.ts |
  gpsbabel -i tabsep -f -
    -o tomtom -F /mnt/tomtom/USA_and_Canada/geocaching.ov2
```

Name change:

```
geo-suffix ~/xxx.ts | awk -F "      " '{ print $3 }'
OBG:NoMoreM/TrSm22+/1H6YH/132376
OBG:MonsterM/TrSm22/1HBZ5/100511
GreeniesandG/TrSm22/1HBZM/970265
OBG:LoveThe/TrRe1+1+/14XXG/932547
OBG:LovePoti/TrUn22/1HC0G/893424
OBG:Treasure/TrUn22/1HC1J/052037
MarkSpitzenH/TrRe22/1HC1T/968696
Psychedelias:N/TrUn1+1+/R70X/916066
Plato'sFiveG/UnRe2+2+/1H5EY/469495
```

**OPTIONS**

**-D lvl** Debug level

**NAME**

**geo-trilateration** - Compute the intersection of three circles

**SYNOPSIS**

**geo-trilateration** [*options*] *lat0 lon0 rad0 lat1 lon1 rad1 lat2 lon2 rad2*

**DESCRIPTION**

Compute the intersection of three circles on the earth.

lat/lon can be specified in DegDec or dotted MinDec format. radius is in meters (m) or feet (ft) or miles (mi).

N.B. this program was inspired by Rock Johnson's "Gee" series of math caches. Dyl1231, Seabiskit, and I enjoy these very much. Thanks RJ!

**OPTIONS**

- f** Pretend that the world is flat and 1 degree latitude == 1 degree longitude
- D lvl** Debug level

**EXAMPLES**

# DegDec input...

```
$ geo-trilateration 44.92342 -93.41253 382 \
    44.92335 -93.41165 398 \
    44.55.502 -93.24.795 205
p3a = 44.920119 -93.413749    44.55.207 -93.24.825
p3b = 44.926875 -93.412695    44.55.613 -93.24.762 <--
p3a = 44.926874 -93.412796    44.55.612 -93.24.768 <--
p3b = 44.926326 -93.415098    44.55.580 -93.24.906
p3a = 44.926875 -93.412745    44.55.613 -93.24.765 <--
p3b = 44.925423 -93.415801    44.55.525 -93.24.948
```

# MinDec input...

```
$ geo-trilateration 44.53.200 w93.36.000 370m \
    44.53.000 w93.36.200 262m \
    44.53.200 w93.36.200 453m
p3a = 44.885602 -93.604417    44.53.136 -93.36.265
p3b = 44.883374 -93.600012    44.53.002 -93.36.001 <--
p3a = 44.890036 -93.600031    44.53.402 -93.36.002
p3b = 44.883374 -93.600025    44.53.002 -93.36.002 <--
p3a = 44.883374 -93.600012    44.53.002 -93.36.001 <--
p3b = 44.883339 -93.606647    44.53.000 -93.36.399
```

# Flat World...

```
$ geo-trilateration -f \
    N 45 04.033 W 093 03.667 0.015611742375526 \
    N 45 03.491 W 093 04.787 0.00836557828246395 \
    N 45 04.655 W 093 04.569 0.0116429978957274
p3a = 45.065950 -93.076676    45.3.957 -93.4.601 <--
p3b = 45.055799 -93.071764    45.3.348 -93.4.306
p3a = 45.082210 -93.065466    45.4.933 -93.3.928
p3b = 45.065952 -93.076676    45.3.957 -93.4.601 <--
p3a = 45.065952 -93.076681    45.3.957 -93.4.601 <--
p3b = 45.066548 -93.079864    45.3.993 -93.4.792
```



**NAME**

**geo-ts2geko** - Convert tabsep to geko tabsep

**SYNOPSIS**

**geo-ts2geko** [*options*]

**DESCRIPTION**

Convert tabsep to geko tabsep. I.E. change the GID and remove events that are not within 2 days.

**OPTIONS**

**-D lvl** Debug level

**NAME**

**geo-uniq** - unique the tabsep database

**SYNOPSIS**

```
geo-uniq [options] [file]
```

**DESCRIPTION**

Unique the tabsep database based on GC codes. Last one wins. Used for update-caches in the incremental mode. This is for people who updated the coordinates for a cache.

**EXAMPLES**

Usage:

```
geo-uniq ~/Caches/rick.ts > rick.ts  
mv rick.ts ~/Caches/rick.ts
```

**OPTIONS**

**-D lvl** Debug level

**NAME**

**geo-unk** - Skeleton shell script that does nothing

**SYNOPSIS**

**geo-unk** [*options*]

**DESCRIPTION**

Skeleton shell script that does nothing.

**OPTIONS**

**-D lvl** Debug level

**NAME**

**geo-usernum** - Given a username, print the user account number

**SYNOPSIS**

```
geo-usernum [options] [username] ...
```

**DESCRIPTION**

Given a *username*, print the user account number. If no usernames are given on the comand line, then read usernames from stdin, one per line.

Requires: A free login at <http://www.geocaching.com>.

```
curl    http://curl.haxx.se/
```

**OPTIONS****-a aliases**

Tab separated alias file [[/home/rick/.geo-alias](#)]

**-c** Remove cookie file when done

**-d dbfile**

Database file to cache lookups [[/home/rick/.geo-usernum](#)]

**-f** Force website lookup

**-u username**

Username for <http://www.geocaching.com>

**-p password**

Password for <http://www.geocaching.com>

**-s sleep** Time to sleep between page fetches [10]

**-D lvl** Debug level [0]

**-U** Retrieve latest version of this script

Defaults can also be set with variables in file [\\$HOME/.georc](#):

```
PASSWORD=password;  USERNAME=username;
```

**SEE ALSO**

[geo-count](#), [geo-found](#), [geo-placed](#), <http://geo.rkkda.com/>

**NAME**

**geo-waypoint** - Convert a lat/lon into a waypoint using gpsbabel

**SYNOPSIS**

**geo-waypoint** [*options*] *latitude longitude name*

**DESCRIPTION**

Convert a *latitude/longitude* into a waypoint using gpsbabel. Lat/Lon may be in DegDec, MinDec, or DMS formats.

Acceptable formats for lat/lon are:

- 93.49130            DegDec (decimal degrees)
- W93.49130           DegDec (decimal degrees)
  
- "-93 29.478"        MinDec (decimal minutes)
- "W93 29.478"        MinDec (decimal minutes)
- 93.29.478           MinDec (decimal minutes)
- W93.29.478           MinDec (decimal minutes)
  
- "-93 45 30"         DMS (degrees, minutes, seconds)

**OPTIONS**

- o format**        Output format, **-o?** for possibilities [gpsdrive] plus "gpsdrive.sql" for direct insertion into MySQL DB
- S**                Alias for **-o** gpsdrive.sql
- d**                For **-S**, just delete selected records
- t type**         The waypoint type [Geocache]
- V gpsver**        Version of gpsdrive (2.09 or 2.10+) [2.09]
- D lvl**            Debug level [0]
- U**                Retrieve latest version of this script

Defaults can also be set with variables in file \$HOME/.georc:

```
NUM=num;                    OUTFMT=format;            BABELFLAGS=-s;
SQLUSER=gast;               SQLPASS=gast;             SQLDB=geoinfo;
```

**EXAMPLES**

Enter a lat/lon into the GpsDrive 2.09 waypoint SQL database:

```
geo-waypoint -S "45 50.501" "-93 23.609" MultiCacheLeg2
```

Enter a lat/lon into the GpsDrive 2.11 waypoint SQL database:

```
geo-waypoint -V 2.11 -S "45 50.501" "-93 23.609" MultiCacheLeg2
```

**SEE ALSO**

geo-code, geo-pg, geo-nearest, <http://geo.rkkda.com/>

**NAME**

**gpx2html** - GPX to HTML converter

**SYNOPSIS**

**gpx2html** [*options*] [<gpx-file> ...]

**OPTIONS**

- a**     Use old style index\_names.html
- h|-?**    Help

**NAME**

**gpx-finders** - Output the finders from a GPX file

**SYNOPSIS**

**gpx-finders** [*options*]

**DESCRIPTION**

**gpx-finders** [*options*]

Output the finders from a GPX file.

Options:

-D lvl          Debug level

**gpx-finders -H** [*options*]

Add headers to stdin

Options:

-D lvl          Debug level

**EXAMPLES**

Finder count:

```
$ gpx-finders /home/rick/proj/caches/Backups/mn30.gpx | wc -l
4480
```

Finders:

```
$ gpx-finders mn30.gpx | sort -n -t'          ' -k2 | gpx-finders -H
```

**NAME**

**gpx-fff** - Display FTF cache logs for a finder from a GPX file

**SYNOPSIS**

**gpx-fff** [*options*] *finder-name* *gpx-file*

**USAGE**

**-D level**

Debug level

**EXAMPLES**

**NAME**

**gpx-loghistory** - print all logs from a GPX file in reverse cron order

**SYNOPSIS**

```
gpx-loghistory [options] file.gpx ...
```

**USAGE**

- f fspec** Output into page/day format. %d format specifier needed.
- F** Output Found logs only.
- H** Output HTML **page(s)**.
- n num** Stop after "num" logs. [no limit] With **-f**, stop after "num" days
- u file** Save finders to file
- D level**  
Debug level [0]

**NAME**

**gpx-logs** - Display cache logs for a finder from a GPX file

**SYNOPSIS**

**gpx-logs** [*options*] *finder-name* *gpx-file*

**USAGE**

**-D level**

Debug level

**EXAMPLES**

**NAME**

**gpx-merge** - GPX file merge

**SYNOPSIS**

`gpx-merge [options] file(s) ...`

**DESCRIPTION**

GPX file merge. Output to stdout.

**OPTIONS**

**-D lvl** Debug level

**NAME**

**gpx-photos** - Fetch hi-res PNG aerial photos from a GPX file

**SYNOPSIS**

**gpx-photos** [*options*] *gpx-file*

**DESCRIPTION**

Fetch hi-res PNG format aerial photos for every cache in a GPX file.

**OPTIONS**

**-f** Force image download even if it already exists

**-W width**  
Width of image in pixels [500]

**-H height**  
Height of image in pixels [500]

**-a mapsrc**  
Source for photos, ala geo-map [terra]

**-s scale** Scale of photos, ala geo-map {0.5fpp}

**-S time** Time to sleep between fetches [5]

**-D lvl** Debug level

**NAME**

**gpx-stats** - Compute stats from a GPX file

**SYNOPSIS**

**gpx-stats** [*options*]

**DESCRIPTION**

**gpx-stats** [*options*]

Compute stats from a GPX file

Options:

-l	Sort by # of logs
-a	Sort by cache age
-f	Sort by log frequency
-D lvl	Debug level

**gpx-stats -H** [*options*]

Add headers to stdin

Options:

-l	Sort by # of logs
-a	Sort by cache age
-f	Sort by log frequency
-t	Top caches only
-D lvl	Debug level

**EXAMPLES**

Statistics:

```
gpx-stats all-mn.gpx
```

```
gpx-stats -l all-mn.gpx | gpx-stats -H
```

```
gpsbabel -igpx -fall-mn.gpx -x radius,lat=45,lon=-93.5,distance=20 \  
-ogpx -Ftc.gpx
```

```
gpx-stats -l tc.gpx | gpx-stats -H -t
```

**NAME****lethist** - Letter histogram**SYNOPSIS****lethist** [*options*] [*words*] ...**DESCRIPTION**Letter histogram from <stdin> or from '*words*'.**EXAMPLE**

Letter histogram:

```
$ lethist | sort -k2 -n -r
1 5 - 8 ) ) W 5 - ( + ) ) ; 4 8 W 5 ; 8 ( * + ; 8 ; W + 0 5 ( 3 8 9
? 0 ; 6 ; ( ? * K 8 ! ; ( 8 8 ) W 6 ; 4 5 1 5 0 0 8 * + * 8 6 * 2 8
; W 8 8 * ; 4 8 ! 8 5 ; 4 ) 4 8 5 ! 6 ) 6 * ; 4 8 9 6 ! ! 0 8 + 1 ;
4 8 ; + . 0 6 9 2 + 1 ; 4 8 1 5 0 0 8 * ; ( 8 8 3 + ; 4 8 ( 8 1 ( +
9 ; 4 8 ! 8 5 ; 4 ) 4 8 5 ! ) 4 + + ; 5 2 8 8 0 6 * 8 ; 4 6 ( ; : 1
8 8 ; + ? ; ; + ; 4 8 ) + ? ; 4.
```

```
$ lethist "Cottonwood trees are, perhaps, the best shade trees"
```

**OPTIONS**

**-t**      Print total  
**-D lvl**   Set Debug level [0]

**SEE ALSO****addletters(1)**

**NAME**

**ll2ggl** - Lat/lon to google maps

**SYNOPSIS**

**ll2ggl** [*options*] *lat lon*

**DESCRIPTION**

Lat/*lon* to google maps.

**OPTIONS**

**-z zoom**

Zoom factor from 0 (small) to 17 (large)[2]

**-D lvl** Debug level

**NAME****l12maidenhead** - Lat/long to Maidenhead (Grid Squares)**SYNOPSIS****l12maidenhead** [*options*]**DESCRIPTION**

Lat/long to Maidenhead Locator System a.k.a. Grid Squares.

**EXAMPLES**

# DegDec input...

```
$ l12maidenhead 7.47194 47.22470
LJ37OL
```

# MinDec input...

```
$ l12maidenhead n45.00.000 w93.30.000
EN35GA
```

# Copied from gc.com...

```
$ l12maidenhead N 44° 59.989 W 093° 22.881
EN34HX
```

# Batch ...

```
$ cat <<EOF |
> 40.806862      -96.681679
> 39.7391536    -104.9847034
> 33.5206608    -86.80249
> 39.114053     -94.6274636
> 32.802955     -96.769923
> 41.0814447    -81.5190053
> 46.1381676    -122.9381672
> 43.0730517    -89.4012302
> EOF
> while read lat lon; do
>     l12maidenhead $lat $lon
> done
EN10PT
DM79MR
EM63OM
EM29QC
EM12OT
EN91FB
CN86MD
EN53HB
```

**OPTIONS****-D lvl** Debug level

**NAME**

**ll2osg** - Lat/long to British National Grid

**SYNOPSIS**

**ll2osg** [*options*]

**DESCRIPTION**

Lat/long to British National Grid.

**OPTIONS**

**-D lvl** Debug level

**NAME**

**mngca** - Fetch MnGCA cache counts and upload to website

**SYNOPSIS**

**mngca** [*options*]

**DESCRIPTION**

Fetch MnGCA cache counts and upload to website.

Run this on Mondays and Fridays in the wee hours

**OPTIONS**

- i** Just recreate the web pages from existing data
- m l,l** Override moving123 lat/lon
- D lvl** Debug level

**NAME**

**mngca-logs** - Create a webpage of recent logs

**SYNOPSIS**

**mngca-logs** [*options*] [*gpx-files*]

**DESCRIPTION**

Create a webpage of recent logs.

This is meant to be called from cron every 5 minutes.

**OPTIONS**

- f** Force regeneration of web page
- v** View-only, do not post the pages
- D lvl** Debug level

**NAME**

**mngca-newmap** - Create a map of newest caches

**SYNOPSIS**

**mngca-newmap** [*options*]

**DESCRIPTION**

Create a map of newest caches for the MnGCA.

**OPTIONS**

- a0** Use tiger for the maps and use tiger to place the markers on the map.
- a num** Use geo-map and map source "num" for the maps. [3]
- g** Do not include geocaching.com caches
- n** Do not include navicache.com caches
- o** Do not include opencaching.com caches
- v** View-only, do not post the maps
- T dir** Temp directory name for results [tmp/mngca]
- D lvl** Debug level

**NAME**

**nc-nearest** - Fetch a list of nearest geocaches

**SYNOPSIS**

**nc-nearest** [*options*]

**nc-nearest** [*options*] [*lat*] [*lon*]

**DESCRIPTION**

Fetch a list of nearest geocaches from navicache.com.

Requires:

**curl** <http://curl.haxx.se/>

Options:

- f** Do not report any found or unavailable caches
- F** Report caches found by the login 'username' as unfound
- T datespec**  
Return caches placed or modified since 'datespec', which can be any date accepted by the **date(1)** command.
- n num** Return "num" caches [20]
- s** Output short names for the caches (gpsbabel option)
- I term** Include only caches with 'term' [\*]
- X term**  
Exclude caches with 'term' [**-unavail**]. Terms: unfound, ifound, unavail, regular, multi, virtual, webcam, event, hybrid, moving
- r radius**  
Display only caches with radius (e.g. **-r 25M**)
- u username**  
Username for <http://www.navicache.com>
- p password**  
Password for <http://www.navicache.com>
- o format**  
Output format, **-o?** for possibilities [gpsdrive]. Plus "gpsdrive.sql" for direct insertion into MySQL DB. Plus "map[,geo-map-opts]" to display a geo-map.
- O filename**  
Output file, if not stdout
- S** Alias for **-o gpsdrive.sql**
- d** For **-S**, just delete selected records
- P** For **-S**, purge all records of type **-t Geocache\***
- t type** For **-ogpsdrive.sql**, the waypoint type [Geocache]
- H htmldir**  
Also fetch the printable HTML pages (slowly)
- L logdir**  
Also fetch the plain text log entries (slowly)
- D lvl** Debug level [0]

**-U** Retrieve latest version of this script

Defaults can also be set with variables in file \$HOME/.georc:

```
PASSWORD=password;  USERNAME=username;
LAT=latitude;      LON=logitude;
NUM=num;           OUTFMT=format;      BABELFLAGS=-s;
SQLUSER=gast;      SQLPASS=gast;        SQLDB=geoinfo;
```

## EXAMPLES

Add nearest 50 caches to a GpsDrive SQL database

```
nc-nearest -n50 -f -s -S MN
```

Purge the existing SQL database of all geocaches, and fetch 200 fresh ones...

```
nc-nearest -S -P -s -n200 MN
```

## SEE ALSO

geo-newest, geo-nearest, geo-found, geo-placed, geo-code, geo-map, geo-waypoint, nc-newest,  
<http://geo.rkkda.com/>

**NAME**

**nc-newest** - Fetch a list of newest geocaches

**SYNOPSIS**

**nc-newest** [*options*] [*state*]

**nc-newest** [*options*] [*state*] [*lat*] [*lon*]

**DESCRIPTION**

Fetch a list of newest geocaches.

Requires:

**curl** <http://curl.haxx.se/>

Options:

- f** Do not report any found or unavailable caches
- F** Report caches found by the login 'username' as unfound
- T datespec**  
Return caches placed or modified since 'datespec', which can be any date accepted by the **date(1)** command.
- n num** Return "num" caches [20]
- s** Output short names for the caches (gpsbabel option)
- I term** Include only caches with 'term' [\*]
- X term**  
Exclude caches with 'term' [**-unavail**]. Terms: unfound, ifound, unavail, regular, multi, virtual, webcam, event, hybrid, moving
- r radius**  
Display only caches with radius (e.g. **-r 25M**)
- u username**  
Username for <http://www.navicache.com>
- p password**  
Password for <http://www.navicache.com>
- o format**  
Output format, **-o?** for possibilities [gpsdrive]. Plus "gpsdrive.sql" for direct insertion into MySQL DB. Plus "map[,geo-map-opts]" to display a geo-map.
- O filename**  
Output file, if not stdout
- S** Alias for **-o gpsdrive.sql**
- d** For **-S**, just delete selected records
- P** For **-S**, purge all records of type **-t Geocache\***
- t type** For **-ogpsdrive.sql**, the waypoint type [Geocache]
- H htmldir**  
Also fetch the printable HTML pages (slowly)
- L logdir**  
Also fetch the plain text log entries (slowly)
- D lvl** Debug level [0]

**-U** Retrieve latest version of this script

Defaults can also be set with variables in file \$HOME/.georc:

```
PASSWORD=password;  USERNAME=username;
LAT=latitude;       LON=logitude;
NUM=num;            OUTFMT=format;      BABELFLAGS=-s;
SQLUSER=gast;       SQLPASS=gast;       SQLDB=geoinfo;
```

## EXAMPLES

Add newest 50 caches to a GpsDrive SQL database

```
nc-newest -n50 -f -s -S MN
```

Purge the existing SQL database of all geocaches, and fetch 200 fresh ones...

```
nc-newest -S -P -s -n200 MN
```

## SEE ALSO

geo-newest, geo-nearest, geo-found, geo-placed, geo-code, geo-map, geo-waypoint, <http://geo.rkkda.com/>

**NAME**

**oc-nearest** - Fetch a list of nearest geocaches from opencaching.com

**SYNOPSIS**

```
oc-nearest [options]
oc-nearest [options] lat lon
```

**DESCRIPTION**

Fetch a list of nearest geocaches from opencaching.com.

Requires:

**curl** <http://curl.haxx.se/>

Options:

- c** Report (include) cross-listed caches.
- f** Do not report any found or unavailable caches.
- F** Report caches found by the login 'username' as unfound.
- T datespec**  
Return caches placed or modified since 'datespec', which can be any date accepted by the **date(1)** command.
- n num** Return "num" caches [20]
- s** Output short names for the caches (gpsbabel option)
- I term** Include only caches with 'term' [\*]
- X term**  
Exclude caches with 'term' [**-unavail**]. Terms: unfound, ifound, unavail, regular, multi, virtual, webcam, event, hybrid, moving
- r radius**  
Display only caches with radius (e.g. **-r 25M**)
- M mystery**  
Use file 'mystery' for unknown/mystery/puzzle caches [/home/rick/.oc-mystery]. Awk Format: *gcid lat lon comment* i.e: OCXCBBVB n44.45.123 w93.00.321 Final  
**OCXCC1Z 44.123456 -93.564123**  
Cache
- o format**  
Output format, **-o?** for possibilities [gpsdrive]. Plus "gpsdrive.sql" for direct insertion into MySQL DB. Plus "map[,geo-map-opts]" to display a geo-map.
- O filename**  
Output file, if not stdout
- S** Alias for **-o gpsdrive.sql**
- d** For **-S**, just delete selected records
- P** For **-S**, purge all records of type **-t Geocache\***
- t type** For **-ogpsdrive.sql**, the waypoint type [Geocache]
- H htmdir**  
Also fetch the printable HTML pages (slowly)

- L logdir** Also fetch the plain text log entries (slowly)
- D lvl** Debug level [0]
- U** Retrieve latest version of this script

Defaults can also be set with variables in file \$HOME/.georc:

```
LAT=latitude;      LON=logitude;
NUM=num;           UTFMT=format;      BABELFLAGS=-s;
SQLUSER=gast;     SQLPASS=gast;      SQLDB=geoinfo;
```

## EXAMPLES

Add nearest 50 caches to a GpsDrive SQL database

```
oc-nearest -n50 -f -s -S
```

Purge the existing SQL database of all geocaches, and fetch 200 fresh ones...

```
oc-nearest -S -P -s -n200
```

Include cross-listed (i.e. gc.com) caches

```
oc-nearest -c -s
```

## SEE ALSO

geo-newest, geo-nearest, geo-found, geo-placed, geo-code, geo-map, geo-waypoint, oc-newest,  
<http://geo.rkkda.com/>

**NAME**

**oc-newest** - Fetch a list of newest geocaches from opencaching.com

**SYNOPSIS**

**oc-newest** [*options*] [*country*] [*state*]

**oc-newest** [*options*] [*state*]

**oc-newest** [*options*] [*state*] *lat lon*

**DESCRIPTION**

Fetch a list of newest geocaches from opencaching.com.

Requires:

**curl** <http://curl.haxx.se/>

Options:

- c** Report (include) cross-listed caches.
- f** Do not report any found or unavailable caches.
- F** Report caches found by the login 'username' as unfound.
- T datespec**  
Return caches placed or modified since 'datespec', which can be any date accepted by the **date(1)** command.
- n num** Return "num" caches [20]
- s** Output short names for the caches (gpsbabel option)
- I term** Include only caches with 'term' [\*]
- X term**  
Exclude caches with 'term' [**-unavail**]. Terms: unfound, ifound, unavail, regular, multi, virtual, webcam, event, hybrid, moving
- r radius**  
Display only caches with radius (e.g. **-r 25M**)
- M mystery**  
Use file 'mystery' for unknown/mystery/puzzle caches [/home/rick/.oc-mystery]. Awk Format: *gcid lat lon comment* i.e: OCXCBVB n44.45.123 w93.00.321 Final  
**OCXCC1Z 44.123456 -93.564123**  
Cache
- o format**  
Output format, **-o?** for possibilities [gpsdrive]. Plus "gpsdrive.sql" for direct insertion into MySQL DB. Plus "map[.geo-map-opts]" to display a geo-map.
- O filename**  
Output file, if not stdout
- S** Alias for **-o gpsdrive.sql**
- d** For **-S**, just delete selected records
- P** For **-S**, purge all records of type **-t Geocache\***
- t type** For **-ogpsdrive.sql**, the waypoint type [Geocache]
- H htmdir**  
Also fetch the printable HTML pages (slowly)

- L logdir** Also fetch the plain text log entries (slowly)
- D lvl** Debug level [0]
- U** Retrieve latest version of this script

Defaults can also be set with variables in file \$HOME/.georc:

```
LAT=latitude;          LON=logitude;
NUM=num;               OUTFMT=format;       BABELFLAGS=-s;
SQLUSER=gast;         SQLPASS=gast;         SQLDB=geoinfo;
```

## EXAMPLES

Add newest 50 caches to a GpsDrive SQL database

```
oc-newest -n50 -f -s -S
```

Purge the existing SQL database of all geocaches, and fetch 200 fresh ones...

```
oc-newest -S -P -s -n200
```

## SEE ALSO

geo-newest, geo-nearest, geo-found, geo-placed, geo-code, geo-map, geo-waypoint, <http://geo.rkkda.com/>

**NAME**

**pgpdb2txt** - Convert a Mapopolis Place Guide .pdb file to text

**SYNOPSIS**

```
pgpdb2txt [options] [file] ...
```

**DESCRIPTION**

Convert a Mapopolis Platinum Place Guide .pdb *file* to text. This is useful for creating a waypoint database for GpsDrive.

The **-F0** (default) output text format is:

```
Category | Name | StreetAddress | CityStateZip | Phone | Lat | Lon |
```

The **-F1** or **-F2** output format is:

```
Category | Name | StreetAddress | CityStateZip | Phone | Lat | Lon | Index |
```

The **-F3** (GpsDrive way.txt) output format is:

```
ShortName Lat Lon Category
```

The **-F4** (GpsDrive SQL) output format is:

```
ShortName Lat Lon Category Comment
```

**OPTIONS****-c category**

Select category [\*] category may be an RE, e.g. **-cRest.\***

**-n name**

Select name [\*] name may be an RE, e.g. **-n.\*McDonald.\***

**-l** Just list the categories in this *file*.

**-o dec** Output lat/lat in 'degdec' (44.456789) or 'mindec' (44.12.123) format.

**-r** Just print the lat/lon coverage rectangle of this *file*.

**-t type** The waypoint type to output [<category-in-pdb-file>]

**-u** Do not convert text to mixed case

**-F1** Append record number as Index

**-F2** Append filename and record number as Index

**-F3** Produce output compatible with GpsDrive v1.32 way.txt

**-F4** Produce output compatible with GpsDrive v1.32 SQL

**-d** For **-F4**, just delete selected records

**-D lvl** Set Debug level [0]

**NAME**

**rect2geomap** - Calculate the scale, image width/height and lat/lon

**SYNOPSIS**

```
rect2geomap [options] scale latUL lonUL lat LR lonLR
```

**DESCRIPTION**

Calculate the *scale*, image width/height and *lat/lon* center point command line arguments for geo-map that will enclose a *lat/lon* rectangle at the specified *scale* factor.

**OPTIONS****-P pixelfact**

Override the default pixel factor [2817.947378]

**-D lvl** Debug level**EXAMPLE**

Calculate the *scale*...

```
$ rect2geomap 50000 45.25 -93.375 44.75 -92.675  
-s50000 -W3113 -H3131 45 -93.025
```

**NAME****update-caches** - Upload caches**SYNOPSIS****update-caches** [*options*] [*place*]**DESCRIPTION**

Upload caches. Super script for rick.

**OPTIONS**

**-o** Update, but no geo-nearest/geo-newest  
**-a** All. Do geo-nearest AND geo-newest.  
**-f** Find  
**-F** Force  
**-i** Incremental (200)  
**-I** Incremental (2000)  
**-n** Use geo-newest instead of geo-nearest  
**-q** Quick (60)  
**-D lvl** Debug level

**EXAMPLES**

Incremental:

\$ `update-caches -i`

Newest incremental:

\$ `update-caches -i -n`

Newest incremental in Shakopee:

\$ `update-caches -i -n shakopee`**PLACES**

`[0-9]*|n[0-9]* shak* bloom* stpaul buff* norwood elm* blaine blainea* rich* cache2000 zoo brook* fair  
 winsted wac* lake* falls vict* ne* maple* home|'" n40 w40 s40 e40`

