How to Memorize Cards, GUIDs, Hashes, Public Keys, and More — Revision 18

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1 Change log

This is very much a work-in-progress and nowhere near clean enough for publication and distribution. However, it is useful, and it's FREE. Use at your own risk. Better yet, submit pull requests that fix problems or TODO items.

- Revision 17
 - Introduce PAO in an appendix; Minor maintenance
- Revision 16
 - Work a little on pegs for the 400's
- Revision 15
 - Add caching to the org-babel code.
 - new pegs to 1000
- Revision 12
 - Rework the 3-digit pegs; adding new technique.
- Revision 11
 - Add section on people's names, a new application of the technique, never before published to our knowledge.
- Revision 10
 - All Pegs now use babomorph for typesetting.
- Revision 7
 - non-Alphabetic ASCII
- Revision 6
 - Automate production of tables with Clojure program.
- Revision 5
 - Include Tarot images.
- Revision 4
 - Include remarks about passwords and mental hash functions from JDC.
- Revision 3
 - Include some sound-alikes and peg candidates from JDC, plus a hint that science fiction is a fount of sound-alikes.
 - Begin promoting the first row in each table to "preferred sound alikes."

2 Prologue

Brian is the curator and primary author of this document. He wrote the first version before enlisting John and Ondrej to contribute. Any use of the first person "I," "we," and so on, in the document is historical and refers to Brian. Brian is responsible for all mistakes.

2.1 How to Modify this Document

The PDF file is generated from .org source via Emacs. The org source contains blocks of Clojure code, specifically calls of the babomorph function, which extracts strings from the following Clojure file:

```
src/how-to-memorize/core.clj.
```

If you want to change the peg words, the ordering of the words, the capitalization of the words, the formatting of the tables in the PDF document, or anything else about this code, modify that <code>core.clj</code> file, <code>cider jack-in</code>, and evaluate the code via <code>Ctrl-C</code> while visiting <code>core.clj</code>. If you want to change prose or other aspects of the document, modify the <code>.org</code> file and you won't have to bother with <code>core.clj</code>.

The results of running all the Clojure code is cached in the .org file. If you change the Clojure code, evaluate core.clj via Ctrl-C Ctrl-C, then manually run affected blocks in the .org file by removing the :results: blocks and keyboarding Ctrl-C Ctrl-C (same command, just while visiting the .org file) with your cursor somewhere inside the begin_src or babomorph block.

For example, if you change the table for 00 through 09 in the core.clj file, Ctrl-C Ctrl-C in core.clj, then remove the results drawer and its hash on that table here in the .org file—it looks like this:

Delete all the results through the :end:.

Then keyboard Ctrl-C on the babomorph block, which looks like this:

```
#+begin_src clojure :cache yes :exports results :results ...
  (babomorph 0 10)
#+end_src
```

and you'll see the table regenerated.

Note that the babomorph commands are off-by-one-hundred, so (babomorph

510 520) builds the table for pegs 410 through 419. This is so we can accommodate pegs that begin with zero.

To produce the PDF, you need a full LaTeXinstallation, Emacs 29.1 or later, Clojure 1.10.3 or better (see project.clj), and CIDER installed. There may be other ways to build the PDF, but that's what I use. Manually cider-jack in to a CIDER session to warm up the Clojure environment. Run

```
org-latex-export-to-pdf
```

while visiting the .org file in an Emacs buffer to produce a .tex file and possibly a .pdf file.

Something went wrong in my recent tex integration, so I run

```
pdflatex -shell-escape how-to-memorize-hex-r36-r64.tex
```

twice, manually in a side terminal after running

```
org-latex-export-to-pdf
```

but that's not a big roadblock. Your installation's of LATEX and Emacs may go more smoothly.

The .org file contains lots of stuff that isn't output to the PDF file. That stuff represents either work-in-progress or variations on the main theme, variations that aren't good enough to commit to print.

3 Introduction

Here is a word that might be unfamiliar: **Definition 1.** A *phantasmagoria* is

- 1. a vivid mental image like Superman or Bilbo Baggins
- 2. a mental movie clip like Rhett Butler carrying Scarlett O'Hara up the staircase, two steps at a time; or Legolas the elf in "Lord of the Rings" firing off arrows
- 3. a sensation like the taste of cherry pie with vanilla ice cream or the smell of burnt motor oil in an old engine block
- 4. a musical riff like Clapton's "Down to the Crossroads" or Bach's "Toccata and Fugue in D Minor"
- 5. anything else that's vivid and easy to recall without effort

The premise of everything in this document is

Premise 1. Almost everyone can recall phantasmagorias without effort. Let's trick our minds into memorizing numerical data via permanent associations between numbers and phantasmagorias.

We'll find that we can memorize long sequences of numbers in any radix (base) by making up phantasmagorias, or *phants* for short. It's fun, easy, and empowering. It requires some effort up front, but the effort is incremental. It takes less than 30 minutes for anyone to learn how to memorize shopping lists of up to 10 items effortlessly and without writing anything down. In a couple of weeks, anyone can learn to memorize lists of up to 100 items effortlessly. That's good enough for a lifetime of practical application. The seriously committed can spend a few months learning to memorize up to 1110 items effortlessly.

4 The Peg System, Contrasted

This document is primarily about the Mnemonic-Major or Peg system,^{1, 2} which makes *direct* and permanent associations between numbers and permanent phantasmagorias — the *pegs*, then temporary phantasmagorias for the memory task at hand. For example, in my realization of the Major system, 1 is always and forever the peg TEA, 2 is NOAH, 3 is ME, and so on. To remember the temporary shopping list "broccoli, grapes, lettuce," I picture a big, Disneyland teacup overflowing with broccoli, Noah squishing grapes into his beard, and me in the mirror with a head of lettuce instead of my actual head, and so on. When I'm done with the shopping list, I mentally discard it, but not the pegs. I reuse the pegs later for the next task. The pegs are forever.

The famous Roman-Room system³, also called *Memory Palace* or *Method of Loci*, assigns temporary phantasmagorias, for the memory task at hand, to permanent mental images of favorite places that you mentally visit in sequence, such as bedroom, bathroom, kitchen. When you want to remember the shopping list "broccoli, grapes, lettuce," picture the broccoli in the bedroom, grapes in the bathroom, lettuce in the kitchen, and so on. If you have a big sequence of favorite places or *loci*, as they're called, you can memorize big lists this way.

I prefer the peg system because I don't actually have a sequence of favorite places that I can recall quickly and without effort. But I can recall the pegs quickly and without effort, so they do the job for me. Lots of people love the Roman-Room system though, and I encourage you to develop it if it works for you. In either case, the objective is to have a fixed sequence of mental images on which you can hang temporary mental images, either to just have a list or to make mental movies, etc.

The equally famous Person-Action-Object (PAO) system ⁴ amplifies my realization of the Major system, as explained in Appendix 15.10.

My primary sources for the peg system are Krill⁵ and Furst.⁶. Krill calls his system *Pseudonumerologic-VIP*, which is a clever way of remembering the fundamental pegs 0123456789 by sound: SDNMRLJKVP.

These methods are based on tables of

pegs permanent, immutable mental images in one-to-one correspondence with numbers. For instance, I pegged the number 68 to *chef*. Whenever I see a chef or think of one, I smell the kitchen and hear the sounds of boiling and sizzling phantasmagorically, and instantly think of the number 68. That's 1-to-1 correspondence.

sound-alikes fluid, mutable lists of mental-images that are similar in their conso-

 $^{^{1}}$ https://forum.artofmemory.com/t/the-mnemonic-major-system-and-gregg-shorthand-have-the-same-under-26339

²https://en.wikipedia.org/wiki/Mnemonic_major_system

 $^{^3}$ https://artofmemory.com/blog/roman-rooms/

⁴https://artofmemory.com/blog/pao-system/

⁵https://folk.ntnu.no/krill/pseudonumerology.htm

⁶https://a.co/d/fv1uRmv/

nant sounds to the pegs and in many-to-one correspondence to the numbers. 68's CHEF sounds like CHIEF, SHEAF, JAVA, CHAFF, amongst others. While 68 always means CHEF, recalled instantly, a chef might not fit well into an ongoing phantasmagoria. For instance, if we're memorizing 276872, the pegs are NECK, CHEF, and CAN. That sequence does not invoke an obvious story or mental movie, so we start looking for sound-alikes. How about INCA CHIEF COIN? Just picture a coin with an Inca chief embossed on it, and we're done. It took a few seconds to derive INCA CHIEF COIN from NECK CHEF CAN, but the other direction is almost instantaneous. Sound-alikes are many-to-one because there are many words that map to each number.

The big point is this: you can instantly go from a number to a peg, and you can, almost instantly, go from a sound-alike to a number. It might take a little while to go from a peg to a sound-alike, but if doing so helps memorize a big list, then it's worth the effort.

5 Basic Pegs

The pegs for the decimal digits are the fundamental foundation for the entire system. All longer pegs, like CHEF for 68, are built up from these. Here are my basic pegs, with some mnemonic hints:

digit	peg	mnemonic	sound-alike rules
0	saw	circular saw, sawed log; round like 0	S, Z
1	tea	giant Disneyland teacup;	d, th, dh (them)
		T looks like 1	
2	Noah	and the Ark; N has 2 legs	ng (Krill only —
		(2 = ng for Krill only, nk is always 27)	"Krill" has 2 "l"s)
3	me	in the mirror tying a bow tie;	
		M has 3 legs	
4	ray	laser pointer, flashlight, light saber	
		no simple mnemonic to 4	
5	law	5 fingers as the cop holds up his hand	
		the hand is L-shaped as you look at it	
6	jaw	6 looks like Lurch's lantern jaw	sh, ch, zh (pleasure)
7	key	7 looks like an Allen key	g, ng (Furst only)
		(7 = ng for Furst and me, nk is always 27)	
8	fee	8 looks like a dollar sign	f, v
9	pea	The Princess and the Pea: 9 mattresses	p, b

Memorize this table, or one personalized to you, by whatever means, by brute force if necessary. The rest of the system relies on it. If you don't like these specific pegs, pick some others out of the rows for 0 through 9 in Section 16. Pick your own peg for each digit, make your own table, memorize it, and stick with it forever. NEVER, EVER CHANGE ANYTHING IN IT. Brian did that once more than 50 years ago, and continues to regret it. This table must become an internal, effortless vocabulary like your native language.

Make up pegs and sound-alikes for longer numbers by combining consonant sounds. For example, here is the peg and sound-alikes for 32:

32	MAN	MOON	mane	hymen	mine	minnow
	amen	ammonia	human	main	mana	mania
	manna	many	mean	mien	moan	money
	omen	woman	yeoman			

Notes on such tables:

- the peg is in all-caps and in first position; other terms in all-caps are recommended alternative pegs; use them if they work better for you
- the first line contains preferred sound-alikes in preference order
- the remaining sound-alikes appear in alphabetical order

MAN is the peg: it is *equal* to 32 in your mind. I visualize Superman flying out of the phone booth, impossible to forget for me.

5.1 Old 3-Digit System

We go up to three digits in this document. That means that every number from 00 through 099 and 0 through 1000 has a peg and a list of sound-alikes.

In this old system, the peg and sound-alikes for the 3-digit number xyz are formed from 3 hard consonant sound alikes, α for x, y for y, and y for y. For instance, here is the list for xyz = 352:

352 MELON Himalayans hemline semolina milliner homeland malign melancholy millennium million

When making up pegs and sound-alikes, weak consonant sounds like H, WH, Y, and W are free: ignore the H in *hemline*. Use soft consonants at will. Vowel sounds are also free — use as many or as few as you like. Ignore trailing sounds beyond the first three: *hemline* and *hemlining* both encode 352, as do *millennial* and *millenium*.

From this point on, when we write "sound" or "sounds," we mean "hard consonant sound" or "hard consonant sounds."

Ignore leading S and Z sounds if the total number of sounds is four or more. So *semolina* encodes 352. However, *semolina* also encodes 035 by the rule about trailing sounds beyond three. This is a flaw in Furst's original design. Here is more about this problem.

5.1.1 Leading S and Z sounds

Furst's tables are ambiguous for 3-digit pegs with leading 0, as we show in this section. It's a TODO to fix this problem.

The general rule is:

Ignore leading S and Z sounds when the total number of sounds is four or more.

By this rule, *semolina*, which has four sounds, encodes 352, as seen above. However, *semolina* also appears in Furst's table for 035:

035	SAWMILL	SMILE	semolina	smell	small	simile
Z	sea-mile	sea-mule	seamless	seemly	similar	

Semolina belongs in the table for 035 by the "trailing-sounds rule:"

Ignore trailing sounds beyond the first three.

Our "Ignore leading S and Z when there are four or more sounds" rule is in conflict with our "Ignore trailing sounds beyond the first three" rule. You can also see *seamless* and *similar* in the table above for 035, but *similar* also shows up in Furst's table for 354:

354	molar	miler	malaria	miller	milliard	mealworm
	mailer	milord	millwright	ameliorate	similar	

5.1.2 **TODO** Fix These Exceptions

One way to fix this problem is to remove *seamless* and *similar* from 035 and leave them in 350 and 354, following the "ignore leading S and Z when there are four or more sounds" rule. Generalizing, insist that all 3-digit numbers of the form 0xy, with an actual leading 0 and two hard consonant sounds, a and b, have pegs and sound alikes with exactly three sounds including the leading S or Z. Any four-or-more-sound words with leading S or Z sound must encode numbers that *don't* begin with zero.

It's a medium-sized job to fix the tables following this scheme of rules.

5.2 TODO Composite Pegs: New 3-Digit System

In the old system, the sounds abc for numerals xyz can be hahbhch..., where h stands for any weak consonant sound or, in the leading position, S or Z sound, and ... stands for anything at all. In the more permissive, new system (under development), 3-digit codes are hahbh...hch.... For example:

- 740 Creamy Strawberry Pie
- 741 Creamy Treacle
- 742 Creamy Nougat
- 743 Creamy Marshmallow
- 744 Creamy Raspberry Pie
- 745 Creamy Lemon Meringue Pie
- 746 Creamy Cherry Pie
- 747 Creamy Coconut Pie
- 748 Creamy Vanilla Pie
- 749 Creamy Blackberry Pie

and

- 840 Fresh-baked Strawberry Pie
- 841 Fresh-baked Treacle
- 842 Fresh-baked Nougat
- 843 Fresh-baked Marshmallow
- 844 Fresh-baked Raspberry Pie
- 845 Fresh-baked Lemon Meringue Pie
- 846 Fresh-baked Cherry Pie
- 847 Fresh-baked Coconut Pie
- 848 Fresh-baked Vanilla Pie
- 849 Fresh-baked Blackberry Pie

This new system can reuse hahbh... for the first two digits of all pegs in a block of ten pegs and can reuse ten hch... across those ten pegs in multiple blocks of ten. The examples above may clarify this general description. *Creamy* introduces all ten pegs in the 740 block, and *Fresh-baked* introduces all ten pegs in the 840 block. *Creamy* and *Fresh-baked* are followed by ten sorts of pie or pie filling.

5.3 Brian's 2-Digit-Plus List

Brian's basic 2-digit peg list appears below, extended from 99 to 127 for ASCII and with nine extra pegs for court cards (Section 15.8). Brian knows this table by heart.

							-
00		10	toes	20	nose	30	mass
01		11	tot	21	net	31	mat
02		12	tan	22	nun	32	man
03		13	tam	23	name	33	mama
04		14	tar	24	Nero	34	mare
05	sail	15	tail	25	nail	35	mail
06		16	tissue	26	niche	36	match
07		17	tack	27	neck	37	mike
08		18	taffy	28	navy	38	muff
09		19	tap	29	nap	39	map
40		50	lace	60	chess	70	case
41		51	lot	61	jet	71	cat
42		52	lane	62	chain	72	can
43		53	lime	63	chime	73	cam
44		54	lair	64	chair	74	car
45		55	lily	65	jail	75	coal
46		56	lash	66	judge	76	cage
47		57	lake	67	chalk	77	cake
48		58	leaf	68	chef	78	cuff
49	1	59	lap	69	chip	79	cap
80		90	base	100	thesis	110	tights
81		91	bat	101	toast	111	teetotaler
82		92	bean	102	dozen	112	titan
83		93	beam	103	twosome	113	totem
84		94	bar	104	dowser	114	Tatar
85		95	ball	105	diesel	115	title
86		96	badge	106	wood-sage	116	deathwatch
87		97	back	107	tusk	117	hot dog
88		98	beef	108	adhesive	118	auto-da-fe
89		99	pipe	109	teaspoon	119	teddy bear
120		911	potato	411	rat-a-tat	711	cadet
121		912	baton	412	rattan	712	katana
122		913	podium	413	radium	713	catamaran
123							
124			spades		hearts		clubs
125			court		court		court
126			cards		cards		cards
127	tank						

5.3.1 Re-Deriving a Forgotten Peg

In case you find yourself forgetting a peg, there is an easy way to re-derive it: go down the vowel sounds, short and long, in order — a, e, i, o, u — and try sandwiching each vowel between the bracketing consonants — nan, nane, nen, nene,

nin, nine, non, known, nun. Eventually, you'll hit the right one. For the ambiguous consonant clusters like 6 = J, SH, CH, you may have to try a few combinations of consonants as well.

6 Credit-Card Numbers

Consider the following, fake VISA number from

https://www.getcreditcardnumbers.com

4716 5752 8659 3845

From the peg list, we get

4716 RACK TISSUE 5752 LAKE LANE 8659 FISH LAP 3845 MUFF RAIL

There isn't an obvious narrative, here, but we get better by starting with "fish" (picturesque and smelly) and working sound-alikes backwards:

4716	RACK dash	Take a fishing rod off the RACK and DASH
5752	LAKE LANE	down to the LAKE via our favorite LANE.
8659	FISH leap	The FISH are LEAPing today, so we
3845	move reel	MOVE the REEL slowly (on the fishing rod).

I can recall this credit-card number weeks after devising the story, without much refreshing in between. Devising it took less than a minute. I memorized it while devising it without extra effort because I know the 2-digit peg table by heart.

7 Hexadecimal: GUID & SHA-1

There are several ways we might approach memorizing numbers that include alphabetical glyphs or letters, such as numbers in base 16, 36, and 64. One way would be to mentally picture things that go along with the letters, such as an Aframe house like a ski chalet for A, and a honey bee for B, and so on. Feel free to proceed this way should you like it. I recommend, however, that we use the existing 2-digit codes for the ASCII values of the letters. For example, capital A has ASCII code 65, with peg JAIL, and little A has ASCII code 97, with peg as BACK. We get two phantasmagorias: a jail cell and a back, say the back of a prison guard. We'll need the capital-uncial distinction for radix-64 but not for hex or radix-36.

There is a price to pay for this choice: we can no longer encode 65 as JAIL or 97 as BACK, depending on the radix we're working in. We'll have to do something else for them. The examples will illustrate the technique.

For mapping *hexits* (hexadecimal digits), extend the table with the ASCII codes for A-F.

hex	NATO	ASCII		PHANTASMAGORIA
A	ALPHA	JAIL	65	the alpha-male lion is in jail
В	BAKER	JUDGE	66	passing judgment on the lion
C	CHARLIE	CHALK		hopscotch on the sidewalk
D	DELTA	CHEF	68	day job of a PhD-thesis student
E	ECHO	CHIP	69	a poker chip in a policeman's (LAW:5) hand
F	FOXTROT	CASE	70	filled with a dozen pink roses

and their sound-alikes:

65	JAIL	CHILI	jelly	jewel	shell	shawl
A	Chile	July	agile	chill	jolly	jowl
	shall	shallow	shill	shoal	shyly	usual
66	JUDGE	HASHISH	juju	Jewish	cha-cha	choochoo
В	chichi	chowchow	jaygee	josh	shoji	shush
	wishy-washy		, , ,			
67	CHALK	JUG	jack	sheikh	chick	cheek
C	Django	aging	check	chic	choke	chuck
	chug	etching	itching	jingo	jock	jockey
	joke	shack	shag	shake	shako	shock
	shuck	washing	watching	wishing		
68	CHEF	CHEVY	chief	sheaf	chaff	chive
D	Java	Jehovah	achieve	chafe	jayvee	jiffy
	jive	shave	shove	wash-off		
69	CHIP	JEEP	jib	sheep	ship	Job
E	GP	chap	chapeau	cheap	chop	chubby
	gyp	jab	jibe	job	shabby	shape
	ship	shop				
70	CASE	GOOSE	gas	kiss	ox	eggs
F	accuse	acquiesce	ax	cause	causeway	chaos
	cozy	cuss	gauze	gaze	guess	guise
	guys	hex	hoax	quasi	wax	

Remember that 7 can be ng in Furst's system, the one we're following, explaining why we get so many ... ing words for 67.

As noted, we lose the six pegs for 65 through 70. You can't memorize a 65 in the text by picturing JAIL because JAIL means A in hex. We need some other encoding or grouping of the digits. For example, seeing a 265A, we might think NICHE(26), LAW(5), JAIL(A), or ANGEL(265), JAIL(A).

7.1 Example GUID:

Hex is only a little harder than decimal. Consider this random GUID generated by Java:

```
5D00E7AA-C15C-44A5-93FA-A4DE6750B28A
```

Often, in real-world application, you don't need to memorize the whole thing, but we'll do that for practice. Start with the pegs:

5D00 E7AA	LAW CHEF SAUCE CHIP KEY JAIL JAIL
C15C	CHALK TAIL CHALK
44A5	REAR JAIL LAW
93FA	BEAM CASE JAIL
A4DE 675	JAIL RAY CHEF CHIP CHUCKLE
0B28 A	SAW JUDGE NAVY JAIL

Note:

• Encode 6750 as CHUCKLE SAW, not 67 50 CHALK LACE. CHALK decodes as C, not 67.

In the credit-card example, we worked backwards from the picturesque peg FISH 86. Here we work backwards from the seductive sound-alike NAIVE 28. The seductive emotion will make it easier to memorize. Hallucinate a HELL-CHEF SAUCE, a recipe for a naive victim.

```
5D00 E7AA HELL-chef SAUCE: CHOP, HACK, and CHILL the JELLY.
C15C SHAKE with TALLOW, CHECK
44A5 the RARE CHILI OIL.
93FA "BE-MY HAGGIS, JILL!"
A4DE 675 CHILL for an HOUR, SHAVE, CHOP, CHUCKLE.
0B28 A "ASSAY, JUDGE!" NAIVE JILL.
```

7.2 Example SHA-1 Hash

From https://onlinehashtools.com, consider the following, 160-bit hash: For git, it usually suffices to remember the first 8 hexits. Let's do them all as a workout:

A638 1B63	JAIL SHAM-FRUIT TEA JUDGE CHIME
D532 69BA	CHEF LEMON JAW PEA JUDGE JAIL
418E 5FB1	ARTFUL CHIP LAW CASE JUDGE TEA
BD50 3950	JUDGE CHEF WHOLESOME PILLOWS
860D D679	FISHES CHEF CHECKUP

Notes

- CHIME for 63 is ok in hex and R36, but not ok in R64, where it decodes as "/".
- Don't encode 69 as CHIP, rather as JAW PEA, because CHIP decodes as E.
- An alternative to WHOLESOME PILLOWS for 50 3950 is LACE MAP LACE, but it's clumsy.

Let's bribe a judge and put him to sleep with hashish (puns help the memory), then summon middle-Eastern heavenly dreams.

```
    A638 1B63 with SHAWL and SHAM-FRUIT, TEA for the JUDGE, JIM.
    D532 69BA SHAVE a LEMON WEDGE, PAY the JUDGE to CHILL.
    418E 5FB1 an ARTFUL SHAPE of this LAW CASE, SHUSH THEE!
    BD50 3950 HASHISH ACHIEVES ELYSIUM BLESSINGS
    B600 D679 FETCHES the CHIEF, JEHOVAH for JACOB!
```

8 Radix 36

Radix-36 is more difficult to find "in the wild" than is either hex or Radix-64. I most often see it in randomly generated file and directory names because some file systems are not case-sensitive and neither is R36. R36 is also sometimes found in URLs for encoding queries or other data. Despite the fact that URLs, except for the domain name, are case-sensitive, some sites, especially older ones, and even some browsers and query-generators, don't adhere to the standard properly. Radix-64 is overkill in such circumstances and uses up alternatives, but radix-36 is immune to the commonplace nonconformance of the internet.

For encoding *rixits* in R36 (or biscuits in base-36?), I use ASCII pegs for the capital letters beyond hex. Find their sound-alikes in Section 16. Because R36 is case-insensitive, we need only one set of pegs. For Radix-64, we need both upper and lower case, so two pegs per letter.

The stars in the table below mark pegs for the lower case. They help for remembering the ASCII pair — upper and lower case — but they're only pertinent for R64 (Section 9). The numbers in parentheses refer to the ordinal number of the letter in the alphabet: K is the eleventh letter in the alphabet, and 11 has peg *tot*, whom I visualize as Alice of Wonderland. Further associations with Hebrew keywords like *mayim* (water) and *nakhash* (snake) or with playing cards like the club jack are given, as explained in section 11.

	NATO		ASCII	PHANTASMAGORIA; ASCII-pair refs marked with *
G	GOLF	71	cat	on the golf cart with my twosome*
Η	HOTEL	72	can	ashtray outside in the smoking area (smell)
I	INDIA	73	cam	diesel* Rolls-Royce in a junkyard in India
J	JULIET	74	car	Juliet walks a wood-sage* to his NASCAR* ride
K	KILO	75	coal	Alice(11) gives coal to a tusked* troll
L	LIMA	76	cage	containing tanned(12) beach-goers
M	MIKE	77	cake	an orca (Mayim:13) flips a cake on its nose
N	NOVEMBER	78	cuff	a snake (Nakhash:14) no arms, cuffs on shirt
O	OSCAR	79	cap	a teetotaler wearing a Carrie-Nation cap
P	PAPA	80	face	Dad cries (tissue:16) at Liz Taylor's face
Q	QUEBEC	81	fat	did Pierre Trudeau get fat?
R	ROMEO	82	fan	Romeo hands a fan to a Tatar* beauty
S	SIERRA	83	fame	on stage at my book-signing, title* "Sierra"
T	TANGO	84	fare	a death-watch* soldier gets on the bus
U	UNIFORM	85	fall	a cadet(club jack) falls into a net(21)
V	VICTOR	86	fish	the Christian symbol, nun(22), auto-da-fe*
W	WHISKEY	87	fig	a Few Figs from Thistles; reading it with a dram
X	X-RAY	88	fife	Nero(24) plays the fife, dances* while Rome burns
Y	YANKEE	89	fob	a watch-fob hanging from a nail(25) on a US map
Z	ZULU	90	base	an Athenian* ball player at bat on home base

8.1 Example: Unix Time

I found an example here:

https://medium.com/analytics-vidhya/base-36-why-how-its-important-a7b084b02548kg4cebk9

Pegs, first, converting to upper-case:

KG4 COAL CAT RAY
CEB CHALK CHIP JUDGE
K9 COAL PEA

Do some forensics on a dead pet.

```
KG4 KILL the CAT with a RAY.
CEB CHECK for a CHIP, lest we be JUDGED.
K9 COOL! it's UP.
```

8.2 Example from Spack

Spack (https://spack.io/) is a dependency solver for software build systems. It produces directory names in R36 that won't (statistically) collide with SHA-1 hashes and work fine on case-insensitive file systems. Here's an example

[+] /home/blahblah/yackyack/spack_packages/scripts/tmp-spack2/spack/opt/spack/linux-ubuntu18.04-haswell/gcc-7.5.0/gdbm-1.19-rdt674nck5k5hbawjaywb4mv4r72osnq

Pegs first, except cheat on pronounceable subsequences or others that appeal to your personal memory!

```
RDT6 74NC REDDIT JAW KEY RAY CUFF CHALK
K5K5 HBAW COAL LAW COAL LAW, CAN JUDGE JAIL FIG
JAY B4MV JAY FIG, BEFORE MOVIE (JUDGE RAY CAKE FISH)
4R72 OSNQ RAY FAN KEY NOAH, FACE FAME CUFF FAT.
```

How about a tale of canceling on social media?

```
RDT6 74NC REDDIT is AHUSH, a COY WAR, GOOFY and SHOCKING.

K5K5 HBAW KILL ILL, UGLY WILL; AGONY SHUSH the SHILL, the FAKE

JAYW B4MV JAY-bird FAKE, BEFORE MOVIE

4R72 OSNQ OUR FAN GUY NOAH, with VOICE FAIR, GIVE FIGHT!
```

Notes

- CAR for 74 is not ok because it decodes as J. Peg it as KEY RAY, then try sound-alikes.
- FISH is V in R36, not 86. If we had 86, peg it as FEE JAW, then try soundalikes.
- 72 can't be CAN, because that's H in R36. Peg it as KEY NOAH then try sound-alikes.

9 Radix 64

For encoding rixits in R64, add the lower-case letters plus special cases for "+", 62, and "/", 63. Stars in the table below mark pegs for the upper-case ASCII codes. They help for remembering the ASCII pair together.

	NATO		ASCII	PHANTASMAGORIA; ASCII-pair refs marked with *
a	alpha	97	back	the jailer* has her back turned to the lion
b	baker	98	beef	the judge* eats a beef dinner in court
C	charlie	99	pipe	smoking while chalking* the hopscotch grid
d	delta	100	thesis	the chef* hasn't finished the thesis yet
e	echo	101	toast	the cop(5) has toast between his fingers
f	foxtrot	102	dozen	a dozen pink (Vered:6) roses in a case*
g	golf	103	twosome	on the golf cart with the cat*
h	hotel	104	dowser	done smoking outside (ash-can*), dowsing inside
i	india	105	diesel	holding a camshaft* from diesel Rolls-Royce
j	juliet	106	wood-sage	Juliet escorts a druid to its NASCAR ride
k	kilo	107	tusk	Alice(11) gives coal* to a tusked troll
1	lima	108	adhesive	dangle a fly-paper into the cage*
m	mike	109	teaspoon	drip icing onto the cake* in the water (Mayim:13)
n	november	110	tights	the snake (Nakhash:14) has no legs, wears tights
o	oscar	111	teetotaler	wearing the Carrie Nation cap*
p	рара	112	Titan	protecting Liz Taylor
q	quebec	113	totem	a fat* Pierre Trudeau kneels before the totem
r	romeo	114	Tatar	Romeo hands a fan* to a Tatar beauty
s	sierra	115	title	on stage receiving fame* for my book titled Sierra
t	tango	116	death-watch	a soldier gets on the bus paying fare* and dancing
u	uniform	117	hotdog	a cadet falls* into a net(21) holding a hotdog
\mathbf{v}	victor	118	auto-da-fe	a Christian* nun(22) overlooks the ritual
W	whiskey	119	teddy bear	while reading a Few Figs* from Thistles
X	x-ray	120	dance	Nero(24) plays fife*, looks through dancers' clothes
7	yankee	121	donut	hangs on the nail(25) next to the fob*
Z	zulu	122	Athenian	on home base* at bat
+		62	chain	
′/		63	chime	

9.1 Example Public Key

Don't bother encoding AAAA, which precede and follow a canonical prefix of 16 rixits for (supposedly) a machine-specific part of the key. With the remaining 44 rixits and 8 for the two AAAAs, we get the required 68 rixits. We have 60 rixits to encode.

```
ssh-ed25519

AAAA C3Nz aC11 ZDI1 NTE5 AAAA
IFi4 CpLS hSK/ uUux BxM3 6WwK
C6RD 1/Qn tXQg BV3m pUZq
```

Pegs first, then try sound-alikes:

C3Nz aC11	CHALK ME CUFF ATHENIAN, BACK CHALK TEA ADHESIVE
ZDI1 NTE5	BASE CHEF CAM TEA, CUFF FARE CHIP LAW
IFi4 CpLS	CAM CASE DIESEL RAY, CHALK TITAN CAGE FAME
hSK/ uUux	DOWSER FAME COAL CHIME, HOTDOG FALL HOTDOG DANCE
BxM3 6WwK	JUDGE DANCE CAKE ME, JAW FIG TEDDY-BEAR COAL
C6RD 1/Qn	CHALK JAW FAN CHEF, TEA CHIME FAT TIGHTS
tXQg BV3m	DEATHWATCH FIFE FAT TWOSOME, JUDGE FISH ME TEASPOON
pUZq	TITAN FALL BASE TOTEM

A tale of overeating:

C3Nz aC11	CHALK picture, ME adjusting CUFFS, looking down my ATHENIAN nose. Turn my BACK, another CHALK picture; my TIE is flypaper ADHESIVE.
ZDI1 NTE5	On BASE, now. A CHEF flips burgers with a CAMSHAFT and brews TEA. COFFEE, FAIR-traded! SHOPPED WELL.
IFi4 CpLS	The CAMSHAFT stirs EGGS, a DAZZLING omelet, ROE and JACK cheese. I'll be a TWO-TON and KEDGE to bed: HEAVE-HIM!
hSK/ uUux	DESSERTS? WHIFF-EM! CALL a dentist, JIM! my TOOTHACHE JIM! My TOOTHACHE FEELS like a TOOTHACHE, DUNCE!
BxM3 6WwK	CHOW-CHOW! DUNCE CAKE for ME. JAW a FIG and a TOOTHPICK, COOL!
C6RD 1/Qn	CHECK my JAW OFTEN, FAWN CHEF. TO SHAME FOOD TADS.
tXQg BV3m	DEATH-WISH? VIVA my FAT TWOSOME. SHUSH, VETCH, MY TEASPIT.
pUZq	I'm a TWO-TON, I'll FALL BESIDE the DAYTIME.

10 Passwords

Don't make passwords easy for bots to guess. Random, long passwords are best, but hard to remember, even with our systems. They're even more difficult to associate uniquely with a web site.

Modern web sites don't store your passwords in the clear. Virtually all, nowadays, hash your password with a one-way hash (and usually some salt and a nonce challenge). That means you expose nothing by re-using part of a password, so long as it's different from site-to-site.

Pick a difficult prefix, but memorable to you. Mix in a special character and a numeral because many sites insist on such. Start with something picturesque:

An Octopus has eight legs with suckers.

Now, partially encode and obfuscate it; this is your personal salt prefix:

2Octopu\$Ha\$8Leg\$With0740

Finally, append the site name, perhaps obfuscated:

2Octopu\$Ha\$8Leg\$With0740EBAY

2Octopu\$Ha\$8Leg\$With0740APPLE

20ctopu\$Ha\$8Leg\$With07400VERLEAF

Anyone who knows your personal salt prefix and your algorithm will break you. But bots will just see a random hash, completely different for each site you visit. Remember that hashes are uniformly distributed. The hash of any input is equally likely to be anywhere in the space of hashes. There is no way to tell how similar two input texts A and A' are from their hashes, even if A and A' differ by no more than one bit. Bots will have no way to know that you are even using an algorithm to construct your passwords.

11 Daily Practice: ASCII, Cards, NATO, Hebrew, Dates

Table 1 exploits the coincidence that there are 52 glyphs in the ASCII Latin alphabet, 52 cards in a standard pack, and 52 weeks of the year. There are only 22 Hebrew letters, so the last four rows of each 26 are empty in the Hebrew column.

Table 1 is in groups of 13 corresponding to the suits of playing cards. Each group also contains dates in a quarterly month-week pattern of 5-4-4: 5 weeks in Jan, 4 in Feb, 4 in Mar, etc. The first days of the months are in the easy pattern 155, 274, 263, 153. You may memorize this as a honeymoon tale of TAILLIGHTS, NI-AGRA, UNASHAMED, HOTELMAN. Table 2 focuses on some phantasmagorias specifically for dates.

These are for non-leap years only, so not great for computing day-of-the-week. I have another method for that (the method of Furst, debugged) in Section 15.9.

My daily practice includes another $156 = 3 \times 52 = 2 \times 78$ three columns of phantasmagorias for the 156 faces of a standard Tarot pack, obverse and reverse. See Section 13. These are a source of vivid mental imagery.

I go down table 1 in my mind when I need to fall asleep. I usually get four or five rows before drifting off, so next time through, I start up where I left off. Sometimes, I recite it backwards just to make sure the end of the table doesn't get soft from lack of repetition. Here are the "mental movies," expanded from the hints in Sections 7, 8, and 9. I include sense of smell because it works for me. It might not work for you.

- 1. ALPHA The ALPHA LION (ARYEH) is in the giant, Disneyland TEACUP. He and the teacup are in JAIL and the jailer has her BACK turned to us. A female jailer, being unusual, is easier to remember. Smell the dank musty odor of the jail.
- 2. BAKER is serving a BEEF meal to a JUDGE, who is in full magistrate's dress including a powdered wig. The meal is taking place in the little BOOTH (BAYIT) on top of NOAH's Ark. Smell the food.
- 3. CHARLIE is riding a CAMEL (GAMAL), looking at himself in the ME (3, mirror) having a hell of a time tying his bow tie while bouncing around on the back of the camel and smoking a PIPE. The camel is dragging ropes with colored sidewalk CHALK behind him making marks on the ground. Smell the pipe tobacco smoke mixed with stinky camel fur and road dust.
- 4. DELTA I am pointing a flashlight (RAY) at a giant, brass-and-wooden DOOR (DALET), looking for a keyhole in the rain and the dark (smell mold and mildew and moss and grass and old machine-oil grease on the door's hardware). I open it up and there is a PhD student who never finished his THESIS so must work as a CHEF. I see, hear, and smell the food he is cooking. Alternatively, a laser pointer is etching the blue lines around the margins of the THESIS paper (such thesis paper with blue lines was common in my day).
- 5. ECHO Moses is delivering the LAW on mount Sinai. A cop at the bottom of the hill (HAR) is holding up his hand: "stop!" In between his fingers

- there are poker CHIPS and pieces of Cinnamon TOAST (smell it). ECHO begins with E, which is Greek Eta and looks like the letter H of *hill* and *HAR*. (*Hill* and *har* are obvious English-Hebrew cognates by a shift of the liquid consonants *l* and *r*.) Smell the desert sands.
- 6. FOXTROT Lurch is clenching a pink (VERED) rose in his teeth and lantern JAW. He has an open CASE on his lap filled with a DOZEN more pink roses. Smell the roses.
- 7. GOLF I have a golden (ZAHAV) KEY to my golf cart, where my black CAT is waiting with my golf TWOSOME. Smell the fuel of the golf cart mixed with the grass smell of the golf course.
- 8. HOTEL I am in the lobby of the beautiful Bellagio hotel with my smelly donkey (CHAMOR) and a #10 coffee CAN full of stinky cigar butts. I have a forked DOWSER rod in my hands. I am waiting in line to pay the exorbitant FEE. The dowser is vibrating as it detects the nearness of water, or gold, because I am going to pay my fee in gold.
- 9. INDIA I am in a junkyard full of old Rolls-Royce DIESEL (smell it) automobiles with their camshafts poking out of their hoods (remember via the trivium that there are more Rolls-Royces in India than in Britain). In the cockpit of one Rolls-Royce is a pilot (TAYYAS) up to his neck in PEA soup.
- 10. JULIET with her painted TOES (10) and fingernails, is leading a WOOD-SAGE (dwarf druid) by the hand (YAD) to his brightly colored racing CAR parked in a clearing in the woods. Smell the forest.
- 11. KILO Alice of Wonderland (a TOT) comes off her throne (KISEH) to deliver a kilo of COAL to a troll with huge TUSKS. Smell the coal and the body odor of the filthy troll king.
- 12. LIMA A girl is sunning herself and holding a silver platter under her chin to ensure it gets TANNED. On the tray is a loaf of bread (LECHEM) with flies buzzing around it (smell it because it's extra hot, baking in the sunshine). She takes a strip of ADHESIVE flypaper and dangles it into a CAGE to trap the flies.
- 13. MIKE A pod of orca whales are flipping a Tam-j'Shanter (beanie hat with a red pom-pom) in the water (MAYIM). I take a TEASPOON of water and drizzle it on a gigantic chocolate CAKE, the size of a five-gallon cylindrical paint barrel. Smell the seawater.
- 14. NOVEMBER A snake (NACHASH) is sizzling on a patch of hot TAR asphalt (smell it). It has neither arms nor legs, so, of course, it is wearing a shirt with CUFFS, plus TIGHTS instead of trousers (absolute absurdity helps the memory).
- 15. OSCAR A TEETOTALER wearing a Carrie-Nation CAP is holding an Oscar cinema award. A tiger with a striped TAIL is clenching a book (SEFER) in its jaws and bringing it to the teetotaler. Smell the tiger: a "zoo" smell.
- 16. PAPA is wiping tears from his eyes (AYIN) with a TISSUE. He is overcomes with emotion looking at the beautiful face of Liz Taylor as Cleopatra,

- whose picture is held by a giant TITAN robot. Smell Liz's perfume.
- 17. QUEBEC A very FAT premier of Quebec is lying face-down on a bed of TACKS and turning his face (PANIM) to a TOTEM to pray. Smell the wood and paint of the totem.
- 18. ROMEO has a sparrow (TZIPPOR) with her feet stuck in a patch of sticky TAFFY (smell it) on his shoulder. He brings her to a TATAR princess, who is being FANNED by several slave girls (or boys!).
- 19. SIERRA I finally get some FAME from publishing my first book, TITLED "Sierra." I celebrate with a beer pulled from a TAP by a monkey (QUF). Smell the beer.
- 20. TANGO A DEATHWATCH soldier with four arms and three swords is carrying Goliath's head (ROSH), which has a giant NOSE. Smell the blood. He tangos awkwardly toward a bus, where he mounts the steps in a palsy and pays his FARE inside.
- 21. UNIFORM A skeleton (SHELED) holding a butterfly net FALLS into a bigger NET along with a man-sized HOT-DOG. Smell it.
- 22. VICTOR A NUN with a Christian FISH pendant presides over a victory, a burning at the stake (AUTO-DA-FE). She is holding a pet crocodile (TANIN) by a leash. Smell everything.
- 23. WHISKEY A TEDDY-BEAR rests on a bed with a book of Edna St. Vincent Millay's poems: "A few FIGS from Thistles." A small NAMEPLATE rests against a tumbler of WHISKEY on the nightstand (smell the whiskey).
- 24. X-RAY NERO is playing his FIFE (not a fiddle) while watching Rome burn. He uses his X-RAY vision to look through the clothes of a bunch of DANC-ING people in the yard.
- 25. YANKEE An American flag is NAILED to the wall. Two nails stick out. A DOUGHNUT with icing and sprinkles (smell it) dangles from one nail and a watch-FOB is looped over the other nail.
- 26. ZULU An ATHENIAN comes up to BASE (baseball). Next to him is a NICHE with a bust of Athena dressed in Zulu regalia in it.

It is a small matter to add the date phantasmagorias to the mental movies we already have for the 52 glyphs. It takes only a little more effort to add the "Day-of-Year Phantasmagorias."

Table 1: ASCII, Playing cards, NATO, Hebrew, Dates

	NATO	ASCII	HEBREW	TRANSLATION	SUIT	DATE	DOY
					+ PIP		
A	ALPHA	jail	ARYEH	lion	SA	JAN 01	1
В	BAKER	judge	BAYIT	booth	S2	JAN 08	8
C	CHARLIE	chalk	GAMAL	camel	S3	JAN 15	15
D	DELTA	chef	DALET	door	S4	JAN 22	22
E	ECHO	chip	HAR	hill	S5	JAN 29	29
F	FOXTROT	case	VERED	pink	S6	FEB 05	36
G	GOLF	cat	ZAHAV	gold	S7	FEB 12	43
Η	HOTEL	can	CHAMOR	mule	S8	FEB 19	50
I	INDIA	cam	TAYAS	pilot	S9	FEB 26	57
J	JULIET	car	YAD	hand	ST	MAR 05	64
K	KILO	coal	KISEH	throne	SJ	MAR 12	71
L	LIMA	cage	LECHEM	bread	SQ	MAR 19	78
M	MIKE	cake	MAYIM	water	SK	MAR 26	85
N	NOVEMBER	cuff	NACHASH	snake	HA	APR 02	92
O	OSCAR	cap	SEFER	book	H2	APR 09	99
P	PAPA	face	AYIN	eye	H3	APR 16	106
Q	QUEBEC	fat	PANIM	face	H4	APR 23	113
R	ROMEO	fan	TZIPPOR	sparrow	H5	APR 30	120
S	SIERRA	fame	QUF	monkey	H6	MAY 07	127
T	TANGO	fare	ROSH	head	H7	MAY 14	134
U	UNIFORM	fall	SHELED	skeleton	H8	MAY 21	141
V	VICTOR	fish	TANIN	crocodile	H9	MAY 28	148
W	WHISKEY	fig			HT	JUN 04	155
X	X-RAY	fife			HJ	JUN 11	162
Y	YANKEE	fob			HQ	JUN 18	169
Z	ZULU	base			HK	JUN 25	176

Table 2: ASCII, Playing cards, NATO, Hebrew, Dates (cont.)

	NATO	ASCII	HEBREW	TRANSLATION	SUIT	DATE	DOY
					+ PIP		
a	alpha	back	aryeh	lion	CA	JUL 02	183
b	baker	beef	bayit	booth	C2	JUL 09	190
С	charlie	pipe	gamal	camel	C3	JUL 16	197
d	delta	thesis	dalet	door	C4	JUL 23	204
e	echo	toast	har	hill	C5	JUL 30	211
f	foxtrot	dozen	vered	pink	C6	AUG 06	218
g	golf	twosome	zahav	gold	C7	AUG 13	225
h	hotel	dowser	chamor	mule	C8	AUG 20	232
i	india	diesel	tayas	pilot	C9	AUG 27	239
j	juliet	wood-sage	yad	hand	CT	SEP 03	246
k	kilo	tusk	kiseh	throne	CJ	SEP 10	253
1	lima	adhesive	lechem	bread	CQ	SEP 17	260
m	mike	teaspoon	mayim	water	CK	SEP 24	267
n	november	tights	nachash	snake	DA	OCT 01	274
O	oscar	teetotaler	sefer	book	D2	OCT 08	281
p	papa	titan	ayin	eye	D3	OCT 15	288
q	quebec	totem	panim	face	D4	OCT 22	295
r	romeo	tatar	tzippor	sparrow	D5	OCT 29	302
S	sierra	title	quf	monkey	D6	NOV 05	309
t	tango	death-watch	rosh	head	D7	NOV 12	316
u	uniform	hot-dog	sheled	skeleton	D8	NOV 19	323
\mathbf{v}	victor	auto-da-fe	tanin	crocodile	D9	NOV 26	330
W	whiskey	teddy-bear			DT	DEC 03	337
X	x-ray	dance			DJ	DEC 10	344
y	yankee	doughnut			DQ	DEC 17	351
Z	zulu	Athenian			DK	DEC 24	348

Table 3: Date Phantasmagorias

NATO PHANT + PIP PHANT New tie 1 tie B BAKER judge C CHARLIE chalk S3 JAN 15 New view C CHARLIE chalk S3 JAN 15 New deal D DELTA Chef S4 JAN 22 New onion E ECHO Chip S5 JAN 29 New nib 29 nib F FOXTROT Case S6 FEB 05 Love lie 36 image G GOLF Cat S7 FEB 12 Love tune H HOTEL Can S8 FEB 19 Love tap JULIET Car S7 FEB 26 Love nudge S7 leak J JULIET Car S7 MAR 05 Irish lie 64 cheer K KILO Coal SJ MAR 12 Irish tune T1 cad L LIMA Cage SQ MAR 19 Irish tap T8 cuff M MIKE Cake SK MAR 26 Irish nudge M NOVEMBER Cuff HA APR 02 Easter wine Q QUEBEC Fat H4 APR 23 Easter gnome SIERRA Fame H6 MAY 07 National ache T TANGO Fare H7 MAY 14 National tear U UNIFORM FIB H7 JUN 18 Altar tue T S5 taillight X X-RAY Fife HJ JUN 18 Altar dive 169 dodgeball Z ZULU base HK JUN 25 Altar kneel T6 education					Tiaritasirias	<u> </u>		
A ALPHA jail SA JAN 01 New tie 1 tie B BAKER judge S2 JAN 08 New view 8 view C CHARLIE chalk S3 JAN 15 New deal 15 deal D DELTA chef S4 JAN 22 New onion 22 onion E ECHO chip S5 JAN 29 New nib 29 nib F FOXTROT case S6 FEB 05 Love lie 36 image G GOLF cat S7 FEB 12 Love tune 43 room H HOTEL can S8 FEB 19 Love tap 50 loose I INDIA cam S9 FEB 26 Love nudge 57 leak J JULIET car ST MAR 05 Irish lie 64 cheer K KILO coal SJ MAR 12 Irish tune 71 cad L LIMA cage SQ MAR 19 Irish tap 78 cuff M MIKE cake SK MAR 26 Irish nudge 85 evil N NOVEMBER cuff HA APR 02 Easter wine 92 bun O OSCAR cap H2 APR 09 Easter pie 99 pub P PAPA face H3 APR 16 Easter dosh 106 dosage Q QUEBEC fat H4 APR 23 Easter Mass 120 dunce S SIERRA fame H6 MAY 07 National ache 127 tank T TANGO fare H7 MAY 14 National tear 134 timer U UNIFORM fall H8 MAY 21 National note 141 tread V VICTOR fish H9 MAY 28 National navy 148 adrift W WHISKEY fig HT JUN 04 Altar rue 155 taillight X X-RAY fife HJ JUN 11 Altar teat 162 tuition Y YANKEE fob HQ JUN 18 Altar dive 169 dodgeball		NATO	ASCII	SUIT	DATE	DATE	DOY	DOY
B BAKER judge S2 JAN 08 New view 8 view C CHARLIE chalk S3 JAN 15 New deal 15 deal D DELTA chef S4 JAN 22 New onion 22 onion E ECHO chip S5 JAN 29 New nib 29 nib F FOXTROT case S6 FEB 05 Love lie 36 image G GOLF cat S7 FEB 12 Love tune 43 room H HOTEL can S8 FEB 19 Love tap 50 loose I INDIA cam S9 FEB 26 Love nudge 57 leak J JULIET car ST MAR 05 Irish lie 64 cheer K KILO coal SJ MAR 12 Irish tune 71 cad L LIMA cage SQ MAR 19 Irish tap 78 cuff M MIKE cake SK MAR 26 Irish nudge 85 evil N NOVEMBER cuff HA APR 02 Easter wine 92 bun O OSCAR cap H2 APR 09 Easter pie 99 pub P PAPA face H3 APR 16 Easter dosh 106 dosage Q QUEBEC fat H4 APR 23 Easter mass 120 dunce S SIERRA fame H6 MAY 07 National ache 127 tank T TANGO fare H7 MAY 14 National tear 134 timer U UNIFORM fall H8 MAY 21 National note 141 tread V VICTOR fish H9 MAY 28 National navy 148 adrift W WHISKEY fig HT JUN 04 Altar rue 155 taillight X X-RAY fife HJ JUN 11 Altar teat 162 tuition Y YANKEE fob HQ JUN 18 Altar dive 169 dodgeball								PHANT
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E ECHO chip S5 JAN 29 New nib 29 nib F FOXTROT case S6 FEB 05 Love lie 36 image G GOLF cat S7 FEB 12 Love tune 43 room H HOTEL can S8 FEB 19 Love tap 50 loose I INDIA cam S9 FEB 26 Love nudge 57 leak J JULIET car ST MAR 05 Irish lie 64 cheer K KILO coal SJ MAR 12 Irish tune 71 cad L LIMA cage SQ MAR 19 Irish tap 78 cuff M MIKE cake SK MAR 26 Irish nudge 85 evil N NOVEMBER cuff HA APR 02 Easter wine 92 bun O OSCAR cap H2 APR 09 Easter pie 99 pub P PAPA face H3 APR 16 Easter dosh 106 dosage Q QUEBEC fat H4 APR 23 Easter gnome 113 tedium R ROMEO fan H5 APR 30 Easter Mass 120 dunce S SIERRA fame H6 MAY 07 National ache 127 tank T TANGO fare H7 MAY 14 National tear 134 timer U UNIFORM fall H8 MAY 21 National note 141 tread V VICTOR fish H9 MAY 28 National navy 148 adrift W WHISKEY fig HT JUN 04 Altar rue 155 taillight X X-RAY fife HJ JUN 11 Altar teat 162 tuition Y YANKEE fob HQ JUN 18 Altar dive 169 dodgeball	C	CHARLIE	chalk	S3	JAN 15	New deal	15	deal
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LLIMAcageSQMAR 19Irish tap78cuffMMIKEcakeSKMAR 26Irish nudge85evilNNOVEMBERcuffHAAPR 02Easter wine92bunOOSCARcapH2APR 09Easter pie99pubPPAPAfaceH3APR 16Easter dosh106dosageQQUEBECfatH4APR 23Easter gnome113tediumRROMEOfanH5APR 30Easter Mass120dunceSSIERRAfameH6MAY 07National ache127tankTTANGOfareH7MAY 14National tear134timerUUNIFORMfallH8MAY 21National note141treadVVICTORfishH9MAY 28National navy148adriftWWHISKEYfigHTJUN 04Altar rue155taillightXX-RAYfifeHJJUN 11Altar dive169dodgeball	J	JULIET	car	ST	MAR 05	Irish lie	64	cheer
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T TANGO fare H7 MAY 14 National tear 134 timer U UNIFORM fall H8 MAY 21 National note 141 tread V VICTOR fish H9 MAY 28 National navy 148 adrift W WHISKEY fig HT JUN 04 Altar rue 155 taillight X X-RAY fife HJ JUN 11 Altar teat 162 tuition Y YANKEE fob HQ JUN 18 Altar dive 169 dodgeball		ROMEO	fan	H5	APR 30		120	dunce
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VVICTORfishH9MAY 28National navy148adriftWWHISKEYfigHTJUN 04Altar rue155taillightXX-RAYfifeHJJUN 11Altar teat162tuitionYYANKEEfobHQJUN 18Altar dive169dodgeball	T	TANGO	fare	H7	MAY 14	National tear	134	timer
W WHISKEY fig HT JUN 04 Altar rue 155 taillight X X-RAY fife HJ JUN 11 Altar teat 162 tuition Y YANKEE fob HQ JUN 18 Altar dive 169 dodgeball	U	UNIFORM	fall	H8	MAY 21	National note	141	tread
X X-RAY fife HJ JUN 11 Altar teat 162 tuition Y YANKEE fob HQ JUN 18 Altar dive 169 dodgeball	V	VICTOR	fish	H9	MAY 28	National navy	148	adrift
X X-RAY fife HJ JUN 11 Altar teat 162 tuition Y YANKEE fob HQ JUN 18 Altar dive 169 dodgeball	W	WHISKEY	fig	HT	JUN 04	Altar rue	155	taillight
~ ,	X	X-RAY		HJ	JUN 11	Altar teat	162	
	Y	YANKEE	fob	HQ	JUN 18	Altar dive	169	dodgeball
	Z	ZULU	base	HK	JUN 25	Altar kneel	176	-

Table 4: Date Phantasmagorias (cont.)

	Table 4: Date Filantasmagorias (cont.)								
	NATO	ASCII	SUIT	DATE	DATE	DOY	DOY		
		PHANT	+ PIP		PHANT		PHANT		
a	alpha	back	CA	JUL 02	Summer wine	183	deaf-mute		
b	baker	beef	C2	JUL 09	Summer pie	190	tapas		
C	charlie	pipe	C3	JUL 16	Summer dosh	197	top-K		
d	delta	thesis	C4	JUL 23	Summer gnome	204	answer		
e	echo	toast	C5	JUL 30	Summer Mass	211	noted		
f	foxtrot	dozen	C6	AUG 06	Moon witch	218	not-if		
g	golf	twosome	C7	AUG 13	Moon time	225	union hall		
h	hotel	dowser	C8	AUG 20	Moon noose	232	honeymoon		
i	india	diesel	C9	AUG 27	Moon Nike	239	number		
j	juliet	wood-sage	CT	SEP 03	Job wham	246	enrage		
k	kilo	tusk	CJ	SEP 10	Job dice	253	annulment		
1	lima	adhesive	CQ	SEP 17	Job tyke	260	nachos		
m	mike	teaspoon	CK	SEP 24	Job near	267	unshucked		
n	november	tights	DA	OCT 01	Travel tie	274	nacre		
O	oscar	teetotaler	D2	OCT 08	Travel view	281	unfit		
p	papa	titan	D3	OCT 15	Travel deal	288	navy wife		
q	quebec	totem	D4	OCT 22	Travel onion	295	napalm		
r	romeo	tatar	D5	OCT 29	travel nib	302	muezzin		
S	sierra	title	D6	NOV 05	Restaurant lie	309	mess-up		
t	tango	death-watch	D7	NOV 12	Restaurant tune	316	midshipman		
u	uniform	hot-dog	D8	NOV 19	Restaurant tap	323	minimum		
\mathbf{v}	victor	auto-da-fe	D9	NOV 26	Restaurant nudge	330	memos		
W	whiskey	teddy-bear	DT	DEC 03	Church wham	337	mimic		
X	x-ray	dance	DJ	DEC 10	Church dice	344	mirror		
y	yankee	doughnut	DQ	DEC 17	Church tyke	351	malt		
Z	zulu	Athenian	DK	DEC 24	Church near	348	Morpheus		

12 Non-Alphabetic Printable ASCII Codes

Use the ordinary pegs for these, because we want to recall them in any order.

Space		MAN	32	spaceman
Bang	!	MAMA	33	with a handgun
Dirk	"	MARE	34	looks like horse's ears
Hash	#	MAIL	35	postmarks on your postage stamps
Cash	\$	MATCH	36	set your cash on fire
Grapes	%	MIKE	37	on stage with Bacchus / Dionysis
Snowman	&	MUFF	38	sleeps until winter time
Tick	,	MAP	39	ticks (bugs) crawling on a map
Frown	(RACE	40	NASCAR event begins with frown
Smile)	RAT	41	Rat Fink (hotrodder) lurid grin
Star	*	RAIN	42	star rubies litter rain-soaked beach
Plus	+	RAM	43	cloak caparison on a ram has plus signs
Tadpole	,	REAR	44	backside of my Corvette has tadpoles
Flag	_	RAIL	45	looks like a footrail in a bar
Stop		RASH	46	my rash looks like measles' dots
Press	/	RACK	47	my rack of antlers is twisted rightwards
EFES	0	REEF	48	Easy if you know the Hebrew
				numbers
TEYSHA	9	LAKE	57	
Snake-Eyes	:	LEAF	58	four-leaf clover, snake-eyes on dice
Hybrid	;	LAP	59	cat on my lap with one eye open
Bra	<	CHESS	60	the Queen on giant chessboard wears a bra
Gym	=	JET	61	parallel bars inside a jet airliner
Ket	>	CHAIN	62	the WC chain pulls the ket from the bra
Hook	?	CHIME	63	when the chime sounds, it's question time
Snail	@	CHAIR	64	snails covering your favorite easy-chair
Box	[BAT	91	catch the bat with bait in a wooden box
Slope	\	BEAN	92	beans as bait behind the sloped trap door
Тор]	BEAM	93	the lid has a wooden beam for strength
Hat	^	BAR	94	go to your bar (pub) in fishing hat
Score		BALL	95	piano player in bar drinks a highball
Blip	<u>,</u>	BADGE	96	radar blips detect metallic badges
Embrace	{	DYNAMITE	123	you're embracing dynamite under your coat
Pipe	\vert	TENOR	124	singer has great pipes
Bracelet	}	TUNNEL	125	you lost your bracelet in a taxi in a tunnel
Worm	~	DUNGEON	126	you slink into dungeon like a worm
				J O T T T T T T T T T T T T T T T T T T

13 Tarot

Tarot cards have vivid imagery and powerful, emotional, words, great for memory.

There are 78 Tarot cards in a standard Rider-Waite pack. That's not divisible by 52, but if we consider the reverse images (upside-down cards) as distinct to the obverse, and most cartomancers do, then we have 156 image-word combinations, and that is divisible by 52. Thus, we get an additional three columns of picture words for daily practice (11), where we associate them with standard playing cards, the NATO alphabet, the ASCII codes, weeks of the year, day of the year, and Hebrew words.

The Tarot suits are wands, clubs, swords, and pentacles, obviously related to the suits of a standard pack, but different enough that we'll just keep those two sets of suits distinct in our minds. There are 14 cards in each suit, but only 22 trumps, aka majors. Let's take the Knights out of each suit and append them to the majors so that the minor suits have 13 cards each, including three court cards — page (like "jack"), queen, and king.

NATO	TAROT	INCLUDING	TAROT	ALL REVERSE	TAROT	ALL OBVERSE
	MAJOR	KNIGHTS	MINOR		MINOR	
	OBV	OBVERSE	REV		OBV	
ALPHA	MAG	willpower	wA	boredom	WA	inspiration
BRAVO	PST	intuition	w2	hesitation	W2	independence
CHARLIE	EMS	motherhood	w3	obstacles	W3	expansion
DELTA	EMP	fatherhood	w4	transience	W4	home
ECHO	HEI	tradition	w5	dodge	W5	competition
FOXTROT	LOV	union	w6	ignored	W6	recognition
GOLF	CHA	drive	w7	give up	W7	protect
HOTEL	STR	strength	w8	panic	W8	rapid
INDIA	HRM	contemplation	w9	exhaustion	W9	grit
JULIET	WHL	luck	wT	micromanage	WT	responsibility
KILO	JST	causation	wJ	procrastination	WJ	excitement
LIMA	HNG	perspective	wQ	selfishness	WQ	courage
MIKE	DTH	cycle	wK	overbearing	WK	overcome
NOVEMBER	TMP	patience	cA	blocked	CA	spirituality
OSCAR	DVL	addiction	c2	tension	C2	partnership
PAPA	TWR	destruction	c3	gossip	C3	friendship
QUEBEC	STA	faith	c4	acceptance	C4	apathy
ROMEO	LUN	misdirection	c5	peace	C5	disappointment
SIERRA	SUN	joy	c6	leaving home	C6	return home
TANGO	JDG	reckoning	c7	diversion	C7	daydreaming
UNIFORM	WLD	completion	c8	avoidance	C8	disillusioned
VICTOR	FOO	innocence	c9	smugness	C9	luxury
WHISKEY	KNW	fearless	cT	broken family	CT	fulfillment
X-RAY	KNC	idealist	cJ	immaturity	CJ	dreamer
YANKEE	KNS	defender	cQ	self-sacrifice	CQ	compassion
ZULU	KNP	efficient	cK	cold	CK	emot control

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NATO	TAROT MAJOR REV	INCLUDING KNIGHTS REVERSE	TAROT MINOR REV	ALL REVERSE	TAROT MINOR	ALL OBVERSE
alpha		illusions	sA	chaos	SA	hroaldhrough
alpha	mag					breakthrough
bravo	pst	repression	s2	hobson's	S2	indecision
charlie	ems	barrenness	s3	forgiveness	S3	heartbreak
delta	emp	tyranny	s4	restless	S4	rest
echo	hei	rebellion	s5	resentment	S5	conan
foxtrot	lov	one-sided	s6	resistence	S6	transition
golf	cha	directionless	s7	conscience	S7	cunning
hotel	str	self-doubt	s8	freedom	S8	trapped
india	hrm	isolation	s9	anxiety	S9	hope
juliet	whl	loss	sT	nadir	ST	betrayal
kilo	jst	dishonesty	sJ	deception	SJ	curiosity
lima	hng	stalling	sQ	critical	SQ	clarity
mike	dth	stagnation	sK	cruel	SK	discipline
november	tmp	excess	pА	bad investment	PA	venture
oscar	dvĺ	recovery	p2	overwhelmed	P2	priorities
papa	twr	aversion	p3	group conflict	P3	teamwork
quebec	sta	insecurity	p4	stingy	P4	frugality
romeo	lun	confusion	p5	receive charity	P5	poverty
sierra	sun	sadness	p6	strings attached	P6	charity
tango	jdg	doubt	p7	wasted work	P7	perseverence
uniform	wld	emptiness	p8	no motivation	P8	high standards
victor	foo	naivety	p9	spendthrift	P9	fruits of labor
whiskey	knw	reckless	pT	fleeting success	PT	legacy
x-ray	knc	moody	pJ	uncommitted	PJ	diligence
yankee	kns	feckless	pQ	jealous	PQ	abundance
zulu	knp	workaholic	рК	indulgence	PK	prosperity

14 People's names

Take the name, convert to a number using the usual rules. Memorize the number as usual using the memorization technique. When recalling, you can use pinfruit.com or other means, enter the number and it will print all possibilities. There will be more than one, but usually you will remember at this point which one is the correct one. And if not, all the other ones are soundalike, so you will not make a big mistake, which is much better than not knowing the name at all.

Examples.

Jordan -> 6412 -> Jordan, Sheridan (memorize, e.g., as *sure tone*)

Brian -> 942 -> Brian, Brain, Bryan, Brown (memorize, e.g., as hebrew now)

Ondrej -> 214 -> Andrew, Andrea, Andrei (memorize, e.g., as winter)

Pick words and create a movie related to something that you know about the person (for example they like WINTER sports like hockey, or they are learning HE-BREW NOW, or they use SURE TONE when coaching).

15 APPENDICES

15.1 Pegs and Phantasmagorias

I blogged out the basics of my peg method here:

https://rebcabin.wordpress.com/2010/11/21/memory-pegs/

15.2 Sound-Alikes

Finding a sound-alike is "computing" or "calculating" a picture word. For example, the peg for 37 is MIKE. Picture a microphone in your hand and feel the electrical tingling. Adding synaesthesia or emotion to pegs helps my memory. It may not help other people. Do what is best for you!

To calculate some nearby picture words, I get

mica Glittering stone; feel grit on your fingers.

mug A big cold beer.

muck Smell the barnyard.

Mecca Picture the kaaba and the pilgrims circulating.

hammock Take a snooze.

15.3 Building and Revising Chains

Take time building phantasmagorias so that ideas flow. It's bad to have a break part-way-through, causing a pause or failure in recall. You must be *fast* and *accurate*. A break or even a soft link in a chain is cause for starting over and building a new chain.

15.4 One Peg Set, Forever

Choose pegs that work for you, then *NEVER CHANGE THEM*. Recall must be instantaneous. Whenever you see or think of a number, you must recall the peg without effort.

I regret changing a few pegs once. I did it for teaching purposes because my originals got dated. For example, 3 for *May* became *me* because no one today knows what a May-pole is. Every time I see 3, however, I picture a May-pole instead of myself in a mirror. I learned May-pole first (from Furst and from my Dad). The switch slows me down even though I made the switch long, long ago.

DON'T CHANGE PEGS AFTER LOCKING THEM IN

15.5 Alternatives for Hex

15.5.1 Hex Method 1

One way to encode hex is to map A-F to 010-015. Permanent pegs are in all caps.

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010	SAWDUST	seduce	aid arurarra	okarro.	South-Sea	200010
			sideways	stays	Soum-sea	assets
Α	assiduous	citizen	cities	hostess		
011	STATUE	state	steady	sedate	steed	stout
В	studio	sit-down	astute	estate	hesitate	iced-tea
	wasted					
012	STAIN	sedan	Satan	sadden	sodden	sudden
C	stand	satin	standard	stench	stint	stein
	stone	stun	stunt	sweeten	sit-in	Sweden
	Estonia	astound	hesitant	pseudonym		
013	STEAM	sodium	stamp	sediment	stem	stomach
D	stampede	stamina	stump	esteem	estimate	wisdom
014	SATYR	Saturn	Saturday	setter	satire	star
E	stare	steer	stir	store	story	storm
	straw	stream	stroll	sterling	strike	strip
	struggle	suitor	swatter	sweater	cedar	cider
	astronaut	astir	astray	austere	Austria	Easter
	history	hysteria	oyster	ouster	stair	
015	SADDLE	settle	cedilla	stale	stall	steal
F	steel	still	stool	style	sadly	hostile

Here is the GUID, again.

5D00E7AA-C15C-44A5-93FA-A4DE6750B28A

How about a pseudo-poem about wildlife:

OWL of WISDOM and SASSY STARING eyes.
 HAWK, look SIDEWAYS left and SIDEWAYS right.
 STAND TALL, SUDDEN HARRIER
 and ASSIDUOUS OWL!
 PUMA, STEALthy CITIZEN,

DE 6750 STAMP! STRIKE! SHAKE, LASSIE!
B28A Don't HESITATE. ENOUGH, CITIZEN!

15.5.2 Hex Method 2

Another technique for hex is to exclusively use the single-word pegs TOES-TISSUE [10..15] for the hexits [A..F]. For decimal digits that spell in 10-15, use two 1-digit pegs. For example, don't spell 15 as TAIL; that's for F exclusively. Spell it as TOE EEL or some such.

Here we go, pegs, first:

5D00E7AA LAW TAM SAUCE TAR KEY TOES TOES
C15C TAN TEA TAIL TAN
44A5 REAR TOES LAW
93FA BEAM TAIL TOES
A4DE6750B28A TOES RAY TAM TAR CHALK LACE TOT REEF TOES

Ignore 'ing' in the following, wherein we are assaulted by a Scottish traffic cop:

5D00E7AA A Scottish policeman (LAW) wearing a TAM o'Shanter gives

me SASS. Pulls me over on the TARmac and demands my KEY.

I TOSS it on his TOES.

C15C "DONE IT WELL, laddie!"

44A5 93FA A4 THEN ROARING, "TIS LOW, you BUM!

'TILL he EATS TAZER!'"

DE6750B28A "DAMN TAR! SHAKE LESS! TIGHT ENOUGH on my TOES!"

Method 1 produces more compact phantasmagorias and extends to higher radices.

15.5.3 SHA-1 by Hex Method 1

```
a638 1b63 d532 69ba 418e
5fb1 bd50 3950 860d d679
```

Using Method 1, ignore common grammatical suffixes like "-ing" and "-ful;" prepositions like "to" and "of;" pronouns and relative adjective, words like "this," and "that;" forms of the verb "to be," and other obvious connector words like "the" and "a."

Let's take a look at a statue in the artist's studio:

A638 SIDEWAYS CHAMFER?

1B6E the TOE of this STATUE is a SHAM
D532 SODIUM is not ALUMINUM!

69BA its SHAPE in the STUDIO is SIDEWAYS
418E ARTFUL HISTORY

5FB1 LAY a STOOL by the STATUE'S TOE
BD50 STATUE is STAMPED "ALICE"

3950 MAYBE ALICE VOUCHES for the STAMP

D678 STAMP of a JACOBIAN?

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15.6 Alternatives for Radix-64

15.6.1 Methods 1 and 2, Again

A method-1 (15.5.1) encoding of rixits, reserving 010 through 064, follows:

0 8 010 016 024 032 040 048 056 063 v v V V V V V V

0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefqhijklmnopqrstuvwxyz+/

- 1. Advantages of this encoding:
 - There are so many picturesque words in English that begin with S that we have a deep well to draw from.
 - The code for a letter is its numerical value in R64: A = 10, O = 24, etc.
 - Disadvantage of this advantage: we're working on memory, not on evaluation, so maybe this feature isn't so interesting.
- 2. Problems with this encoding:
 - (a) Off-By-One Mental Arithmetic

Notice that 24 is O, but you may remember that O is also the 15-th capital glyph of the alphabet. Adding 10 for the first ten digits of the encoding, 15 + A = 15 + 10 = 25, not 24. This is an opportunity for error at speed. But we can deal with it.

To encode O, remembered as the 15-th letter of the alphabet, first subtract 1 to correct the off-by-one error, getting 14. Then add 10 to account for the leading ten digits 0..9 of the encoding, getting 24. Prepend the leading s=0 for the radix to get 024, say *sunrise*.

Encode: subtract 1, add 10, i.e., add 9.

Encode: enhance nine.

$$O \rightarrow 15 \rightarrow 24 \rightarrow 024 \rightarrow sunrise$$
.

To decode sunrise = 024, remove the leading s = 0 to get 24. Subtract 10 to get 14. Add 1 to get 15, the 15-th capital letter.

Decode: add 1, subtract 10, i.e., subtract 9.

Decode: deduct nine.

sunrise
$$\rightarrow$$
 024 \rightarrow 24 \rightarrow 15 \rightarrow 0.

For small letters, add and subtract 26.

$$o \rightarrow 15 \rightarrow 41 \rightarrow 50 \rightarrow 050 \rightarrow solstice$$
.

solstice
$$\rightarrow$$
 050 \rightarrow 50 \rightarrow 24 \rightarrow 15 in lower case.

It's a lot of mental arithmetic, but that's fun, too. Balance the fun factor against the need for recall speed and accuracy.

(b) ASCII Popups

If you've memorized ASCII, you already have pegs for A-Z and a-z. They will pop up at speed. You can either force them away; use them as with Method 2 above, accepting the trade-off risk of collisions and ambiguity, or go with ASCII in my first method.

15.6.2 Structure in Public Keys

Generating another public key on my machine, notice that the first 6 quads, 24 Rixits, 64 bits each, 1536 bits, are the same in the two keys:

```
ssh-ed25519 AAAA C3Nz aC1l ZDI1 NTE5 AAAA <--- for the machine? IKWf n2B6 AjfK MNwX +Ekt d7mx nhwi GALP JfEO oEwk 2\text{X/u}
```

By induction, assume without confirmation or authority that the first 24 Rixits are for the machine and $11 \times 4 = 44$ Rixits for the rest. That's 2816 bits.

The total is 4352 bits, or 68 Rixits, consistent with this article:

```
https://medium.com/risan/upgrade-your-ssh-key-to-ed25519-c6e8d60d3c54
```

That's it for cross-checking; on to memorization.

Let's tell a tale of poisoning an indiscreet lover.

15.6.3 The Supposed Machine Prefix.

Don't bother with the leading and trailing AAAA, assuming they're always present (TODO: check that!), leaving C3Nz aC11 ZDI1 NTE5:

```
C3Nz SATIN HEM in a CINEMAtic SASH-WEIGHT
aC11 SMOOCH - STAINED, a HOT OATH
ZDI1 a SMALL STEAMing from the STOVE, with TEA brewing
NTE5 CYANAMIDE for a SNOBbish SUITOR'S ALE
```

15.6.4 The Unique Parts

Now in groups of 3 or 4 quads:

```
STUFF the STILL for his ZERO-HOUR HURRAH
IFi4
CpLS SWEETEN the SALT with a SCENT of SNUFF
hSK/
     a SERUM SINFUL and SINISTER for his SASHIMI
uUux
     a SOLUTION SEMISWEET, no SLUDGE in this SLOP
     SATED, he SLIPS into ASSONANT WHIMsies
BxMe
6WwK HUSHed SOMNOLENCE, SOULFUL SNOOZing
C6RD
     SATIN HUSH, SNUG STOMACH
1Qn/ DIE, SWITCHMAN! SNATCH CERBERUS
txQg SLOWLY SEMIMOBILE, SNITCH! SURRENDER!
BV3m SEDATED, to the CEMETERY HOME, SERF!
puzq SLIDE into OSMOSIS, ASSIMILATE SLAIN!
```

15.6.5 Old Old Method

I blogged out a more trivial method, similar to method 2 for GUIDs some time ago:

https://rebcabin.wordpress.com/2011/03/06/memorizing-in-base-64/

This method maps the rixits directly to the pegs. The mental arithmetic is the same as above: computing a peg number from characters A..Z and a..z by adding 9 and-or-26. We just lose the leading S, so we lose some richness to the vocabulary.

15.6.6 Radix-64 Method 3

Another method, which I have not tried, is to map the alphabetic letters to their S-enhanced letter numbers, as in

A 01 B 02 ... 2 026 a 027 b 028 ... 2 052

The decimal digits go to their regular pegs, 0..9. This is a variation of the old-old-method (15.6.5).

15.7 Memorizing Dates

For most kids, history class is torture because of the need to memorize dates. But that's a snap with the peg system. I still remember from 11-th grade that

RAY TAN CHAT

was the beginning day of the Civil War, because you burned me with a RAY gun and that ended the peace talks. April 12, 1861.

15.8 Memorizing a Shuffled Card Pack

I blogged this out in December, 2010, starting here:

https://rebcabin.wordpress.com/2010/12/08/take-the-diamonds/

Here is a scrape of the relevant blog posts. Note that the encoding of the cards is totally unrelated to that in the [daily-practice] section. Don't get them confused, and pick only one if you find it difficult to store two encodings.

15.8.1 Take the Diamonds

Do you smell machine oil the instant you see the Diamond Queen from a pack of cards? How about cigarette smoke when you see the Diamond Six, or baby powder when you see the Diamond Ace? Read on . . .

Take the entire suit of Diamonds out of a pack of cards and lay them out in order, from Ace to King, in front of you on a table. Notice that the word "diamond" begins with a D, and recall that the consonant sound D stands for the number 1- or for the digit "1" in combination with other digits, as we have been using it so far. Think of the suit, diamonds, as the tens digit in combination with the plain digit of each card. Then the diamond Ace will be 11-1 for the tens digit from "diamonds" and 1 for the Ace itself, since it's the first card in the suit. The Ace through the Nine come out with no problem at all and they hook up immediately with our memorized, permanent pegs. As you go through the list below, really take some time to stare at the card and visualize the mental picture right on the face of the card. If the deck is one you can write on or draw on, draw a little cartoon or write the picture word on the face of the card. You'll be using these cards to help you lock in the pegs:

Card	Num	Peg	Mental Picture
DA	11	tot	Alice from Alice in Wonderland.
			Smell baby-powder in the air.
D 2	12	tan	Someone tanning herself holding a reflective
			tray under her chin. Smell tanning oil.
D 3	13	tam	A tam-o-shanter tartan cap with red pom-pom on the head
			of a Scottish warrior in full kilts. Smell heather.
D4 14 tar		tar	A sizzling hot stretch of deserted highway,
			so hot the tar is sticky. Smell the tar, too.
D 5	15	tail	The orange-and-black striped tail of an enormous tiger.
			Imagine a zoo smell.
D 6	16	tissue	Someone wiping tears from her eyes after remembering
			an emotional event. Smell cigarette smoke and think
			of the song "Smoke Gets in Your Eyes."
D 7	17	tack	A huge thumbtack or map-pin holding something on a
			big cork board. Smell fresh ink and paper.
D 8	18	taffy	A big blob of hot, sweet-smelling pink and green taffy
			candy, stuck to your fingers getting all over the card.
D 9	19	tap	A beer tap spilling beer all over the card, splashing
			on your clothes and making a smelly mess.

Notice I've added smell to the associations, and even a song. We can really take this idea far and involve taste and touch over all the pegs, and we may do that in the future – it will be an interesting exercise. This is one of the things that Eran Katz suggests to do in his books (highly recommended), and since smell works very well for my personal memory, I'm adding it to my permanent inventory and inviting you along for this addition.

We have only four cards to go. The diamond 10 is pretty easy – I'm just going to pick the peg "toes" and picture the woman painting her toenails all different colors. And the smell? Toenail Polish! Easy.

And for the last three, let's promote the 1 to the hundreds digit and sneak in some three-digit pegs (from the third layer – a preview). Notice we may have some extra consonant sounds on the ends of the three-digit pegs. They're throw-aways, because the system doesn't go to four or more digits at a time. 1,110 permanent pegs is quite enough!

Card	Num	Peg	Mental Picture
DJ	111	teetotaler	Picture a prissy little man with ill-fitting
			clothes, a crooked bow tie, thick eyeglasses
			and a pocket protector pontificating on the
			virtues of total abstinence from alcohol.
			Smell Lysol (too much cleaning)
DQ	112	titan	Picture an enormous robot with rivets all over
			its shell. Smell machine oil and steel.
DΚ	113	totem	Picture a Native-American totem pole with
			effigies of bears, salmon, and a huge, winged
			eagle on top.
			Smell a campfire and the wood of the totem pole.

That's it. Take your suit of diamonds along with you, pull it out and practice the visualization and imaginary smelling exercise whenever you find yourself having to kill time. Just a few times over this and you won't need the cards any more. You will INSTANTLY smell and see taffy when you think of the Diamond-8. The Diamond Queen will INSTANTLY bring to mind the smell of machine oil and steel. And vice versa, and through the entire suit.

15.8.2 Shuffle the Diamonds

... and go through the 13 cards, in order, forming a linked sequence of vivid mental pictures. Here's what I came up with yesterday

Alice in Wonderland (tot = 11 = DAce) is wiping a tears from her eyes with a

tissue (16 = D6). She is standing by a sizzling hot highway and her feet are sinking into the

tar (14 = D4). Across the highway, a six-foot tall beer

tap (19 = D9) is gushing beer onto the tarmac. The beer boils on contact, releasing a strong beer smell, and runs gently downhill into a grid of huge, multicolored

tacks (17 = D7) pushed into the tarmac. These tacks are also piercing and holding down a tiger's

tail (15 = D5), and the tiger is roaring in pain and licking a huge lump of pink-and-green alcoholic

taffy (18 = D8) by the other side of the road from Alice to soothe his pain. In front of the tiger, a

teetotaler (111 = DJ), specially summoned from AA for the situation, is wagging his finger at the tiger and delivering a stern warning about the evils of alcoholic taffy. The other hand of the teetotaler is exposed to the hot sun and is getting quite a

 $\tan (12 = D2)$. With that overtanning hand, he is holding the right hand of a steel robot

titan (112 = Q2) who is wagging his head, clicking and beeping, emitting the odor of machine oil, and, with his other hand, painting his

to enails (to es = 10 = D10) and also the to enails of the

totem (113 = DK) standing right next to him (smell the toenail polish). The top of the totem is obscured by a huge

tam-o-shanter (13 = D3), which is baking in the hot sun and emitting a strong smell of roasting wool

Now, I came up with this phantasmagoria yesterday morning in less than one minute, I did not think about it all day, the day was very, very busy with other activities, I went out for a couple of drinks after work, slept through the night, and didn't think of this for a whole 24 hours until just now. I remembered it almost perfectly (I forgot the tacks, and all that means is that I didn't form the mental picture vividly enough – I had the tiger's tail threaded around the tacks, but I recommended to you to imagine the pins pushed THROUGH the tail, adding the roaring and pain to the phantasmagoria). If I had been more careful, I would have remembered it perfectly.

Think about this: by exploiting the visual imagination and dragging in all the other senses – feeling the heat, smelling the smells, hearing the sounds, I was able to remember 24 hours later, after a minute of looking, a shuffled suit of cards (and, if I had been more careful, I would have remembered it perfectly!). When I am in practice, I can memorize an entire shuffled deck in 2 minutes, while you deal them out (I'll teach you the other suits later, while we go through the second layer of the memory system). When I am out of practice, 4 minutes is plenty. Even better, I can memorize 39 of the cards and then tell you the remaining 13 cards just by running down the suits in my mind and naming the cards that aren't in my phantasmagoria. I can even do it tomorrow from yesterday's shuffle.

This is a great party trick. The pros can do this really fast. The athletes in the world memory championships (http://en.wikipedia.org/wiki/World_Memory_Championships) can do it in less than 30 seconds, and they can memorize the order of 8 shuffled decks in 15 minutes.

Try this. You will amaze yourself. Then, think of practical applications.

15.8.3 The 40s and Hearts

Back with the 10's we learned pegs to memorize a shuffling of the diamond suit, in any order. This time, we'll learn pegs for the 40's and for the hearts suit. The reason to associate hearts with the 40's is that the first important consonant in 'hearts' is 'r,' a digit 4, which we promote to the number 40 for the application of memorizing cards. Here are my permanent pegs for the 40's. As always, feel free to tailor this set to your own memory style

Num	Sound	Peg	Description	Others
40	RS	race	A NASCAR race; colorful cars going around;	rose
			oil, gasoline, smoke, loud engines	rice
				horse
41	RT	rat	huge, greasy rat scurrying through garbage	road
			in an alley; garbage smell, long teeth	word
				radio
42	RN	rain	driving rainstorm; soaked clothes; dark street	huron
			trying to hail a taxi; no visibility	horn
				roan
43	RM	ram	giant ram with huge, curled horns; it's saddled	arm
			and you're riding it; leather & wool	worm
				room
44	RR	rear	distinctive rear end of Corvette automobile;	rare
			driving it with the top down	roar
45	DI	•1	1 11 6 1	horror
45	RL	rail	brass rail at a wood-paneled bar; can't reach	whorl
			it with your feet; beer and darts	whirl
16	DI			reel
46	RJ	rash	painful, red rash on your forearm	ridge Boi
				Raj rush
47	RK	rack	rack of antlers on caribou head mounted over	wreck
4/	IXIX	Tack	the fireplace	
			the meptace	rag
48	RF	reef	coral reef; brightly colored tropical fish;	rug roof
40	Ki	icci	SCUBA diving gear; rubber, seawater	rave
			Seeds diving gear, rubber, seawater	wharf
49	RP	rope	heavy burlap or hemp rope in a coil or	rib
17		rope	attached to the thing-to-remember	robe
			and the same of	harp

Those pegs cover the playing cards Heart Ace (41) through Heart Ten (40). We need three more for the face cards

Heart Jack: 411, rat-a-tat-tat; picture a machine gun; you're carrying it and shooting it at things

Heart Queen: 412, rattan; picture white wicker furniture

Heart King: 413, radium; picture the item-to-remember pulsing with the (imaginary) green glow of radioactive radium.

Pick the diamonds and the hearts out of a pack of cards, shuffle them, and prepare to memorize the order. Take your time: don't rush it. Go for accuracy. The speed will come naturally with practice. Here's an example of a run I did just now, building this story in my mind in real time. If you follow along and build the miniature movie in your mind, you will no trouble recalling the order of the cards. Take special effort to chain the pegs one to another (yes, this is a combined application of chain-memory and peg-memory):

- (D2) I'm outside in the hot sun getting a tan, but I'm really burning and it hurts
- (H5) There's a tropical drink station on the beach and there is a very prominent brass *rail* where I want to rest my feet while I order a cool drink, but I can't quite reach it with my feet
- (HQ) I sit in a stool made of white *rattan*; hear the distinctive creaking sound as you sit and try to reach the rail with your feet
- (H3) Sitting next to me is a guy holding on to the reins of his riding *ram* and the ram is chewing the rattan (this is an important connection as it's easy to forget the rattan without making the ram do something with it)
- (H10) he pulls out of his pocket a scale model of a NASCAR *race* track and places it on the counter, and the cars start going around
- (DA) Alice from Wonderland (a *tot*) walks up to take a look at the model race track
- (DK) she puts a pint-sized *totem* pole right in the middle of the oval racetrack
- (HJ) one of the effigies in the totem has a machine gun in its hand and starts shooting at the cars (rat-a-tat-tat)
- (H4) many of the cars are Corvettes with their distinctive *rear* ends (four circular red lights, 2-by-2). The bullets are shooting out the red lights
- (DJ) a teetotaler comes up to us at the tropical bar and lectures on the violent sideeffects of drinking alcohol, using the machine-gunning totem as evidence
- (H7) he points to a *rack* of antlers mounted on the wall of the tropical bar as further evidence: the hunter must have been drinking to go after such a huge caribou
- (D9) we all laugh and him and order the bartender to pull us more beers from the *tap*
- (H8) some divers out in the *reef* hear the sound of the enormous beer tap pouring beer and pop their heads out of the waves and shout at us to pour some for them, too
- (D3) we notice that some of the divers are wearing *tam-*o-shanters over their dive helmets
- (D5) tigers (with orange-and-black striped *tails*) run along the beach into the waves and snatch the tam-o-shanters in their jaws.

- (D6) they run a big circle over toward us, stop and wipe tears from their eyes (with *tissues*) out of regret for stealing the tam-o-shanters
- (H2) all of a sudden, it clouds over and a driving, tropical rain soaks the weeping tigers with tams in their teeth and pounds on the roof of the tropical drink station
- (HK) the weather radio in the back of the bar starts to blare news at a high volume about the storm and pulse very brightly with green *radium* glow
- (HA) huge black *rats* scurry out from behind the bar, scared out by the sudden noise of the radio see the radium glistening on their greasy, rain-soaked fur
- (D4) the rats run all the way out to the */tar/*mac in the parking lots near the beach, and the hot tar is steaming from the sudden rain; the rats are jumping on the hot tar
- (D8) they run over to piles of hot green and white *taffy* piled up in one corner of the tarmac and start eating it voraciously
- (D10) on top of the piles of taffy are young women painting their */toe/*nails yes, in the driving rain and dripping the toenail polish on the taffy
- (D7) the toenail polish is running down the taffy and flowing around the shafts of enormous thumb*/tack/*s embedded in the base of the piles of taffy
- (H6) under each thumbtack is a doctor's prescription for *rash* medication; it's going to help with all the sunburns we got
- (H9) tied to each prescription is a burlap *rope* (don't know where this is going, yet, but just tie them up
- (DQ) at the other end of each rope is a titan, a robot, pulling on the rope

That's it – now close your eyes and run through the movie in your mind, and the cards will play out in order. Try not to go back and peek. If you have to do that, it means that you didn't form a sufficiently strong association linking one mental picture with the next. Practice will make perfect!

tan, rail, rattan, ram, race, tot (Alice), totem, ratatattat, rear (shooting out the Corvette brake lights) teetotaler, rack, tap, reef, tam, tail, tissue, rain, radium, rat, tar, taffy, toes, tack, rash, rope, titan

D2, H5, HQ, H3, H10, DA, DK, HJ, H4, DJ, H7, D9, H8, D3, D5, D6, H2, HK, HA, D4, D8, D10, D7, H6, H9, DQ

I had to really work hard to recall rattan and rear, which means I didn't form the connected images strongLY enough first time around. practice practice practice.

15.8.4 The 70s and Clubs

By now, you know the drill. The 70's are another decade in the regular peg list of the second layer of the system. Just as the 10's stand for the diamonds (because the 'D' of 'diamond' is a sound for 1, and 1 is the first digit of each visual memory word for the diamond suit), and the 40's stand for hearts (because the 'R' of 'heaRts' is a 4-sound), the 70's stand for the club suit. You will get three bonus visual-words from the third layer for the Jack, Queen, and King of clubs. Practice with the club

suit alone, locking in the visual words, then mix in the hearts and diamonds. You will be able to memorize a shuffled pack of these 39 cards and impress yourself. Without further ado, here is my list:

Num	Sounds	Card	Peg	Description	More
70	KS	C10	case	leather attache case with handcuffs	gas goose wax
71	KT	CA	cat	black cat, green eyes	coat kite
72	KN	C2	can	empty coffee can, label torn off	goat cane canoe
73	KM	C3	cam	camshaft from a big detroit V8 engine	gun cameo comb
74	KR	C4	car	colorful NASCAR race car	wigwam choir crew
75	KL	C5	coal	black messy coal or hot one	curry claw collie
76	KJ	C6	cage	cage for an animal (rabid dog?)	eagle cash gaucho
77	KK	C7	cake	over-tall, toppling wedding cake	gauge gong kayak
78	KF	C8	cuff	dress-shirt cuff hanging out of ill-fitting suit	keg calf coffee
79	KP	C9	cap	baseball cap	guava cape cowboy
711	KTT	CJ	cadet	Navy cadet in dress uniform	guppy cathode cathedral
712	KTN	CQ	katana	samurai chopping with katana sword	quietude cotton catnip
713	KTM	СМ	catamaran	absurd inflated raft catamaran	kidney academy godmother Gotham

15.8.5 The 90s and Spades

This is the last set of ten, permanent peg words in the second layer of the system, with three bonus words from the third layer so we can memorize the last suit of a card deck, the spades. Every number in the 90's begins with the digit 9, and the consonant cluster for 9 is B and P. The word "Spade" encodes to 091; ignore the leading zero and pick the 9=P to stand for the spades, so the spades will come from the 90's. In later blogs, we'll summarize the entire second layer, add a couple of odds and ends, and work on applications like card tricks.

Num	Sounds	Card	Peg	Description	Others
90	PS	S10	Base	Home base in a ball field	abess
					boss
					pizza
91	PT	SA	Bat	baseball bat in the hands of a slugger	pot
					bath
					pod
92	PN	S2	bean	Steak-size kidney bean steaming on a bed	bun
				of lettuce	piano
					ebony
93	PM	S3	beam	Huge timber in the low ceiling of a pub;	bum
				hit your head on it	opium
					puma
94	PR	S4	bar	The pub itself: crowded, loud, stuffy	pier
					bear
					opera
95	PL	S5	ball	Baseball: stitches, tacky leather,	pool
				autographs	belly
					bowl
96	PJ	S6	badge	Heavy, bronze sheriff's badge pulling	bush
				your clothes	pasha
					peach
97	PK	S7	back	exposed back of ballerina	beak
					book
					bug
98	PF	S8	beef	Steak dinner (don't confuse with bean)	beehive
					buffet
					puff
99	PP	S9	pipe	Rene Magritte's famous painting;	babe
				or Einstein	bobby
					pope
911	PTT	SJ	potato	baked potato with all the fixin's;	habitat
				see 92, 98	beatitude
0.4.0	D				pas de deux
912	PTN	SQ	baton	relay race; pass the baton	beatnik
					bedouin
010	DTL 4	CIZ	1.	1	petunia
913	PTM	SK	podium	lecturer or preacher at the podium	badminton
					speedometer
					epidemic

15.9 Calculating Day of the Week

I blogged this out here:

https://rebcabin.wordpress.com/2015/07/03/590/

Here is an edited scrape:

Remember Dustin Hoffman's character in the movie "Rainman," who can instantly say the day of the week for a given date? Of course, he was an autistic savant and probably didn't know and certainly couldn't teach how he does it, but here is a method I learned from my Dad [Furst has the same method].

Preliminaries:

Do all math mod 7, that is, you only need to keep the remainder of the results of any calculation after dividing by 7. Thus, 15 is 1, 33 is 5, 49 is 0, etc.

Every day of the week has a number, starting with 1 for Sunday and ending with 0 for Saturday. Your goal is to convert any Gregorian calendar date into such a number.

Jan and Feb belong to the year BEFORE. The reason is that leap years add a day at the end of Feb and it makes all the math easier to think that Jan and Feb 1963 are really part of 1962, for example. Also remember that the Romans started their year with the month of March. Maybe it was for a similar reason.

Example:

29 Nov 1872.

First convert the century. 1900 happens to be a 0, so that's really really easy and convenient. The numbers for all other centuries go in a cycle 6 4 2 0, which is also really easy to remember: "AGES RUN IN SEQUENCE." Because 1900 is 0, 2000 is 6, 2100 will be 4, 2200 will be 2, etc. 1800 is 2.

Keep 2 in your head and move forward.

Now convert the year, and there are two steps. First, the year mod 7 because each year is one day longer than a multiple of 7, namely 364. 72 mod 7 is 2. Add 2 to the 2 we're carrying to get 4 so far.

Now get the number of leap years in the century. That's 72 / 4, or 18 discarding the remainder; that's 4. Add it to the 4 we're keeping, which is 8, which is 1.

Now get the month. Here are mnemonics for months:

Mar	Irish	4	St. Patrick's Day
Apr	Easter	0	•
May	National	2	Memorial Day
Jun	Altar	5	Lots of weddings in June
Jul	Sun or Summer	0	First full sunny month of summer
Aug	Moon	3	Start seeing harvest moons in Aug
Sep	Job	6	Labor Day
Oct	Travel	1	Columbus Day
Nov	Restaurant	4	Eat turkey in a restaurant
Dec	Church	6	Christmas in a church
Jan	New	2	New-Year's Day
Feb	Love	5	St. Valentine's Day

If you forget one, you can recalculate a month number by just adding up the 30 = 2 and 31 = 3 days from the beginning of the year in March (mod 7, of course). The day counts for the months go like this: 32323/32323/30, nice easy pattern, or you

can sing the "30 days hath September, April, June, and November" ditty if you prefer. Whatever works.

We're carrying a 1 in head. Add a 4 for Nov, giving 5. Almost done.

29 mod 7 is 1; add our 5, we get 6. 29 Nov 1872 was a Friday.

Do this a few times and check yourself against Google or timeanddate.com. You'll make a few mistakes when getting started, but after a little while you'll be able to do it quickly and reliably.

Let's try today, 21 May 2022:

```
2000 = 6
22 = +1 = 0
1y = +22/4 = 5 \text{ discarding the remainder}
May = +2 = 7 = 0
21 = +0 \text{ (Saturday)}
Today is Saturday.
```

15.10 Person-Action-Object (PAO)

I recently learned the PAO system and it's quickly becoming my favorite. Almost magically, it helps you string long phantasmagorias together, 6 digits—three pegs at a time. It's not very different from the peg system, and not much more difficult to devise, but it is a 3X amplifier.

The PAO system associates 3 phantasmagorias to each number. You build up your PAO system by enhancing the pegs you already know.

For example, consider these enhanced pegs:

	peg	Person	Action	Object
19	tap	CHIMP	TAPS	BEER
	•			
29	nap	PUSSYCAT	NAPS	on the COUCH
30	mass	CONGREGATION	LEAVES	CHURCH
58	leaf	BREEZE	RUSTLES	CANADIAN-MAPLE

If you had to memorize 30291958, you can do it the old way with four pegs as described earlier in this document, or you can just pick the Person field for 30, the Action field for 29, the Object field for 19, the Person field for 58, and so on if there were more pairs. I quickly get

The CONGREGATION NAPS after drinking BEER and a BREEZE rustles leaves.

I might end up with the same phantasmagoria the old way, but this way is faster and more robust.

Here are the first few rows of my PAO table. Many of these are very personal and will surely not work for you. Make sure the persons are unique amongst themselves, ditto the actions and the objects.

My table is just an example. Fill out your own table to suit yourself. You'll find it very quick to do and you will love memorizing it because the peg are a huge help.

	peg	Person	Action	Object
00	sauce	AMELIA	LADLES	SPAGHETTI SAUCE
01	sot	AQUALUNG	PICKS	a DOG END
02	sun	SUN CHILD (tarot)	REVELS	in SUNSHINE
03	seam	CRIMINAL	RUBS	FINGERPRINTS
04	soar	ALBATROSS	TORMENTS	the ANCIENT MARINER
05	sail	LEO	TRIMS	SAILS
06	sash	SHAH OF IRAN	ASCENDS	the DAIS
07	sock	GRINCH	DONS	HEAD SOCK
08	safe	SAFE	CRUSHES	WILE-E COYOTE
09	soup	CODGER	SPILLS	SOUP

	peg	Pers	on	Ac	ction	Object
0	saw		/IBERJACK	SA	WS	LOG
1	tea	MIS	S MARPLE	PC	DURS	TEA
2	Noal	h NO	AΗ	CO	DUNTS	the ANIMALS
3	me	I		TI	Е	a BOW TIE in the mirror
4	ray	LUK	Œ SKYWALKER	BR	RANDISHES	his LIGHT SABER
5	law	COF)	ST	OPS	a LAND CRUISER
6	jaw	LUR		CF	HEWS	ROSE STEMS
7	key	ALL	ADIN	TV	VISTS	KEY in rusty lock
8	fee	LAV	VYER	H	ORDES	GOLD
9	pea	PEA		BR	RUISES	the PRINCESS
		peg	Person		Action	Object
	10	toes	DANICA		PAINTS	her TOENAILS
	11	tot	ALICE		DESCEND	S her THRONE
	12	tan	LIZ		TANS	her CHIN
	13	tam	ORCAS		FLIP	a TAM o'shanter
	14	tar	TARMAC		SIZZLES	a SNAKE
	15	tail	GAS-CAP		SNAGS	tiger's TAIL
	16	tissue	AL GORE		DABS	his TEARS
	17	tack	JUSTIN TRUDEA	١U	TACKS up	flag of QUEBEC
	18	taffy	ROADRUNNER		HIGH-STE	PS in hot TAFFY
	19	tap	CHIMP		TAPS	BEER
		peg	Person		Action	Object
	20	nose	KING DAVID		BEHEADS	GOLIATH
	21	net	FISHING NET		TRIPS	CADET
	22	nun	NUN		WALKS	her pet CROCODILE
	23	name	TEDDY BEARS		LEANS	a NAME CARD
	24	Nero	NERO		PLAYS	his FIDDLE
	25	nail	MAILMAN		FLINGS	MAIL
	26	niche	ATHENIAN BUS	T	FILLS	a NICHE
	27	neck	NEFERTIRI		POSES	for SCULPTURE
	28	navy	NAVY		STEAMS	in the OCEAN
	29	nap	PUSSYCAT		NAPS	on the COUCH

16 All Pegs and Sound-Alikes

Letters for hex, ASCII, and R36, R64 alternative methods are included in the headers

16.1 Caps and Rows

Items in ALL CAPS are recommended pegs: visually strong, easy to reconstruct by enumerating vowels, low collision potential. The first row in each block contains recommended alternative pegs in preference order. The rest of the rows are in alphabetical order.

Blocks without items in ALL CAPS do not have recommended pegs as of this ver-

sion. Rows in blocks without items in ALL CAPS may not be ordered.

We work on this list in our hobby time. It will be several versions before it's finished.

It takes time to come up with good pegs. It's a quadratic process because one must pick pegs that don't collide visually with the ones already memorized. Picking a new peg means thinking about all the others picked so-far. I already have CHAIR for 64 (used all the time), so SEAT for 01 and THRONE for 142 are not good ideas for me because they might incorrectly recall 64 at speed.

Most of this list (except for the double leading zeros) is automatically constructed from a file named <code>core.clj</code> deeper in the directory tree of the source repository.

Pick your own pegs from this list, or mark your pegs in ALL CAPS in the <code>core.clj</code> file, pick four likely ones for the first line, sort the rest, and regenerate the PDF (<code>cider-quit, cider-jack-in, org-babel-execute-buffer, org-latex-export-to-pdf;</code> you must either manually evaluate <code>core.clj</code> via <code>Ctrl-C</code> <code>ctrl-C</code> or start with a fresh cider-repl every time, as Clojure caches the results). You may have to generate the PDF file manually:

```
pdflatex -shell-escape how-to-memorize*.tex
```

at least twice to regenerate cross-references correctly.

000	SOY SAUCE	SASSY SAYING	assize	
001	CYST	SIESTA		
002	CESSNA	ASSASSIN	seasoning	season
003	SESAME seed bun	ASS'S MANE		
004	SCISSOR	CAESAR	ass's reins	
005	C S LEWIS	SIZZLING steak		
006	SAUSAGE	SIOUX SAGE		
007	SUZUKI scooter	SIZING	siezing	
008	SOUSAPHONE	ASS'S FOAL		
009	SWISS BANK	ASS'S BEARD		

-00	CATIOE	OACIC	11			
00	SAUCE	OASIS	icehouse	sissy	sass	seesaw
	assess	assize	houses	sassy	say-so	seas
	seize	size				
01	SOT	SOD	Swede	acid	aside	asset
	city	east	haste	host	sad	seat
	seed	seedy	settee	side	sight	sit
	site	soot	sooth	south	stay	stew
	suede	suet	suit	suite	swat	sweet
	waste	west				
02	SUN	SWAN	swine	ozone	sinew	snow
	assign	hosanna	sane	scene	seen	sign
	sin	son	soon	zone		
03	SEAM	SWAMI	semi	psalm	asthma	sum
	assume	same	seem	some	somehow	swim
04	SOAR	SEWER	seer	soiree	sir	sour
	czar	eyesore	hawser	hussar	sore	sorrow
	sorry	wiser	zero			
05	SAIL	SEAL	swallow	slaw	sleigh	weasel
	assail	cell	easel	easily	hassle	hazel
	sale	sell	sill	silly	slay	slow
	sly	soil	sole	solo	soul	whistle
06	SASH	SWATCH	switch	sage	ice-show	siege
	assuage	ice-age	sashay	sedge	sewage	such
	usage		-			
07	SOCK	SACK	ski	sky	scow	sake
	ask	assegai	hoosegow	housing	husky	icing
	sago	sea-cow	seek	sick	soak	soggy
	squaw	suck	whiskey	wise-guy		
08	SAFE	SUFI	sofa	sieve	housewife	savoy
	ossified	save	savvy	suave		•
09	SOAP	SPY	wasp	wisp	asp	soup
	sap	espy	sob	sop	spa	subway
	swab	swap	sweep	swipe	swoop	zebu
	zip		•	•	•	

010	SAWDUST	SWEETS	seducer	hostess	citizen	cities
Α	South-Sea	assets	assiduous	sideways	stays	
011	STATUE	STEED	studio	estate	iced-tea	wasted
В	astute	hesitate	sedate	sit-down	state	steady
	stout	stud				
012	SATAN	STEIN	sedan	stain	satin	stone
C	Estonia	Sweden	astound	hesitant	pseudonym	sadden
	sit-in	sodden	stand	standard	stench	stint
	stun	stunt	sudden	sweeten		
013	SEDIMENT	STEAM	sodium	stem	esteem	wisdom
D	abstemious	estimate	stamina	stamp	stampede	stomach
	stump					
014	SATYR	STAR	Saturn	stair	cider	cedar
E	Austria	Easter	Saturday	astir	astray	astronaut
	austere	history	hysteria	ouster	oyster	satire
	setter	star	stare	steer	sterling	stir
	store	storm	story	straw	stream	strike
	strip	stroll	struggle	suitor	swatter	sweater
015	SADDLE	STOOL	still	stall	steel	style
F	cedilla	hostile	sadly	settle	stale	steal
016	STAGE	STOOGE	stitch	station	hostage	wastage
G	hesitation	stodgy				
017	SIDECAR	SIDEKICK	stake	stick	stucco	stock
Н	ascetic	sciatica	setting	stack	stag	stalk
	steak	sticky	stigma	stigmata	sting	stoic
	stoke	stuck				
018	STIFF	STOVE	staff	stave	stevedore	stuff
I	sea-devil	set-off	wasteful			
019	STAB	STEEPLE	stub	stoop	staple	steppe
J	eastbound	estop	seat-belt	southbound	steep	step
	stipend	stop	stupid	sweetbread		

000	CENICE	CLINIC		•		
020	SENSE	SUNS	sneeze	sinus	seance	sunset
K	census	easiness	essence	iciness	science	since
	sincere	sinister	sinus	snooze		
021	SAINT	SAND	cent	senate	synod	snot
L	Sunday	ascent	assent	sandal	sanity	scent
	sent	sentiment	snit	snoot	snout	sonata
	sonnet	sound	sundae	swindle	zenith	
022	SIGN-ON	SAN JUAN	assonance	sea-onion	snow-knife	synonym
M	asinine					
023	CINNAMON	SNOWMOBILE	snowman	cinema	sea-anemone	cyanamide
N	wisenheimer					-
024	SINNER	SONAR	senior	snore	scenery	sunrise
O	snare	sneer	snort	snarl	sonorous	
025	SEE	SUNLAMP	snell	snail	sunlight	
P					_	
026	SIGNAGE	SNOWSHOE	cinch	singe	snatch	censure
Q	ascension	century	sensual	snitch	snow-job	sunshine
027	SINK	SYNAGOGUE	snack	snake	snick	zinc
R	cynic	isinglass	scenic	sea-anchor	sneak	snug
028	SNUFF	SNOWFLAKE	sniff	snafu	sniffle	saw-knife
S	Seinfeld	sinful				
029	SNAP	snowball	snob	snip	snipe	snoop
T	sign-up	snub	sunup	synopsis		

	030	SAMSON	SIAMESE	seamstress	semester	semisweet	swimsuit
	U	osmosis	sea-mouse	semicircle			
	031	CEMETERY	SMITH	Semite	housemaid	smut	summit
	V	assumed	smite	smooth	something	summed	symmetric
	032	SALMON	CEMENT	seaman	semen	seminary	yes-man
	W	Seminole	awesomeness	iceman	sameness	semantics	somnolent
		summon	wise-man	wise-woman			
	033	OSMIUM	SEMI-MONTHLY	semi-mundane	same make	same model	same mont
	X	Summum Bonum	same man	same mood	semi-material	semi-member	semi-metal
		semi-mobile	semi-moist	semi-motile	semi-motor		
	034	SAMURAI	SWIMMER	summer	simmer	smear	summary
	Y	smart	smirk				-
	035	SAWMILL	SMILE	semolina	smell	small	simile
	Z	sea-mile	sea-mule	seamless	seemly	similar	
-	036	SMASH	SMOOCH	smudge	smidgen	so-much	
	a						
	037	SMACK	SMOKE	sumac	smuggler	seeming	swimming
	b						
	038	SEMAPHORE	SAMOVAR	symphony	semifinal	semiformal	
	c			-			
	039	CYMBAL	SAMBA	somber	symbol	zombie	swamp
	d	assembly	sample	simple	somebody	sympathy	_
					_	-	

040	SERIES	SEA-HORSE	sewers	source	Circe	serious
	SLICILS	OLI I-I IONOL	SCWCIS	source	Circc	scrious
e 0.11	CARDINE	MICARD	1 .	1		1 1
041	SARDINE	WIZARD	sardonic	sard	sort	hazard
f	assert	assort	certain	seaward	seaworthy	sortie
	swarthy					
042	SARIN	SIREN	serene	Syrian	serenade	surname
g	Sauron	surrender	sworn			
043	SWARM	SERMON	serum	ceremony	ceramic	
h				•		
044	SORORITY	SRIRACHA	zero-hour	sour-herring	searer	swearer
i						
045	ISRAEL	CEREAL	serial	sirloin	seraglio	sorrel
j						
046	SARGE	SURGEON	search	serge	surge	sea-urchin
k	sergeant	surcharge		-	_	
047	CIRCUIT	SAUERKRAUT	sarcasm	sour-cream	circus	sirocco
1	circle	circumstance	sarong	zircon	zirconium	
048	SURF	SERF	surface	service	serve	servant
m	servile	sorrowful	surfeit	survey	survive	
049	CERBERUS	SYRUP	surplice	surplus	surprise	usurper
n	Serb	sauerbraten	serpent	sourpuss	surpass	_

050	SOLSTICE	SALSA	slice	solicitor	sluice	sales
O	solace	useless				
051	SLOT MACHINE	OCELOT	slate	salt	salad	assault
p	household	isolate	oscillate	salute	silhouette	slaughter
	sled	sleet	slide	slight	slit	slot
	solid	solitaire	sultan	zealot		
052	SEA-LION	CYLINDER	saloon	salon	sealant	slender
q	aslant	saline	sea-lane	silent	slain	slander
	slant	sullen	swollen	zillion		
053	SALAMANDER	SLIME	cell-mate	asylum	soul-mate	Islam
r	slam	slim	slow-motion	slumber	solemn	
054	CELLAR	SOLAR PANEL	celery	soiler	sailor	celerity
s	salary	sealer	seller	slayer	whistler	
055	CELLULAR	CELLULOID	soliloquy	sea-lily	slowly	slyly
t						
056	SOLUTION	SLEDGEHAMMER	slouch	sludge	slush	slash
u	isolation	zoology				
057	SILK	silica	ceiling	slack	sling	slang
\mathbf{v}	sea-legs	select	slake	sleek	sulky	
058	SULFUR	XYLOPHONE	saliva	salvage	salvation	slave
W	salve	salver	salvo	self	silver	sleeve
	sliver	solve	soulfood	soulful	sylph	
	or o o n	CI IDDED	a = :11= a = t	slab	-1	alaam
059	SLOOP	SLIPPER	sailboat	Slab	slap	sleep
059 x	SLOOP celebrate	celibacy	slip	slop	slap slope	sleep slowpoke

060	SAGES	SWATCHES	sieges	switches	sea-chest	sashes
y	suggest					
061	SAGITTARIUS	sagittal	siege-tower	sash-weight	switch-hitter	associate
Z	satiate	satched				
062	SWITCH-KNIFE	SZECHUAN	sea-change	session		
+						
063	SASHIMI	SWITCHMAN	sea-chum			
′/						
064	SUTURE	SOJOURN	swisher	seizure	seashore	saw-sharpener
	switcheroo					
065	SEASHELL	SATCHEL	social			
066	ASSOCIATION	SUSHI CHAI	sash-chain	sage-judge	switch-shift	wise-judge
067	SAGE-GRASS	SWITCHGEAR	sash-cord	siege-coin	switch-cane	
068	SOUS CHEF	SWITCHOVER	swish fop	sash fob	switch-vein	
069	SWASHBUCKLER	SAGEBRUSH	s-shaped	sash-pocket	switchblade	switch-box

070	SEX	SOCKS	saxophone	Saxon	seacoast	success
070	six		saxopriorie	Jakon	scacoasi	success
071	SCOT	squeeze SKEET	canid	socket	assat	cauattor
0/1			squid	sockei	ascot	squatter
	scat	scatter	scout		sea-god	sect
	skate	skid	skit	waistcoat		
072	ZUCCHINI	scoundrel	scanty	skin	sequin	signal
	askance	scan	scandal	schooner	second	sicken
	sickness					
073	ESKIMO	SYCAMORE	scheme	scum	skim	scumbag
074	CIGAR	SKIRT	Oscar	scorpion	screw	squire
	escarole	escort	escrow	ice-cream	scar	scarce
	scare	scarlet	score	scrap	scrawl	scream
	screen	secret	secretary	secure	singer	square
	squirt	whisker				-
075	SKULL	SCALE	scallop	school	scallion	scull
	Skoal	cycle	icicle	ossicle	scalp	scholar
	sculptor	sea-gull	sequel	sickle	single	skeleton
	skill	squall	squill	suckle	<u> </u>	
076	SKETCH	SCOTCH TAPE	squash	sagacious	escutcheon	
077	PSYCHIC	SUKIYAKI	asking	easygoing	seaquake	seeking
	skeg	squawk	squeak		-	
078	SCAFFOLD	IĈE COFFEE	scofflaw	scuffle	scuff	scavenger
	scoff	skiff				O
079	SKIP	SKIPPER	scab	scoop	scope	ski-boot
	escapade	escape	housekeeper	icecap	skeptic	ski-boat
	squabble	squib	1	1	1	
	- 1	- 1				

080	SAVES	CIVVIES	housewives	sophist	sufism	suffice
	suffuse			_		
081	SEAFOOD	SOVIET	swift	safe-deposit	sift	safety
	sea-fight	soft				
082	SIPHON	SOUVENIR	Savannah	sea-fan	housephone	suaveness
	seven					
083	SOPHOMORE	SEAFOAM	sea-vampire	suffumigate		
084	SAPPHIRE	SUFFRAGETTE	safari	sphere	zephyr	sovereign
	cipher	saffron	savior	savor	sever	several
	severe	suffer	whosoever			
085	ASPHALT	SOUFFLE	seafowl	safflower	ice-floe	swivel
	civil	safelight	safely	suavely	useful	
086	SAVAGE	SAWFISH	icefish	housewifish	sufficient	safe-edge
087	ESOPHAGUS	SAFECRACKER	suffocate	civic	safeguard	saving
	safe-conduct	savoy-cabbage	suffix			
088	SAFE-HAVEN	SAFE VAULT	save-face	sieve-field	save-virtue	
089	SOFA-BED	SAFE BOX	sieve-pit	sieva-bean		

090	SPACE	ASBESTOS	spice	spouse	sea-biscuit	soupcon
	auspices	specify	suppose	•		•
091	SUBTERRANEAN	SPIDERMAN	Sabbath	hospital	houseboat	spade
	September	scepter	soup-tureen	spate	speed	spit
	spite	spot	spout	spud	subdue	-
092	SPIN	SPAIN	spine	soybean	spoon	spun candy
	aspen	espionage	has-been	span	spend	spun gold
	subnormal	subpoena	supine			
093	SPAM	SPUMONI	submarine	submerge	submontane	spume
	subminiature	submit				
094	SPAR	soprano	spear	spire	spare	saber
	asparagus	aspire	aspirin	cypress	isobar	osprey
	separate	sober	sopor	spark	sparrow	spirit
	sport	spray	spread	spree	spring	spry
	super	superb	supper	whisper	zebra	
095	SEAPLANE	ZEPPELIN	spool	spell	spall	spill
	esplanade	sibilant	sowbelly	splash	spleen	splendid
	split	spoil	sublime	supply		
096	SPEECH	seepage	species	subject	special	waspish
	auspicious	seabeach	spatial	sub-age	subagent	
097	ICE-PACK	SPOCK	ice-pick	spike	spook	speck
	aspect	aspic	ice-bag	sawbuck	speak	spectacle
	zip-code					
098	SPOOF	soap-flake	subway-fare	subway fire	subaverage	subfreezing
	soupfin	spiff				
099	SOAPBOX	SOAP-BUBBLE	sea-poppy	soapbark	soapberry	subprincipal
	house-paper					

0	SAW	HOSE	ice	house	haze	ZOO
	a-sea	ace	as	ass	assay	ayes
	easy	essay	eyes	has	hawse	his
	is	ooze	sea	sew	so	sow
	us	use	was	wise	woozy	yes
1	TEA	HAT	hood	oat	yacht	widow
	ad	add	aid	at	auto	day
	die	do	dough	due	dye	eat
	eddy	etui	hate	head	heat	heed
	height	hide	hit	hoot	hot	hut
	idea	it	oath	odd	ode	tee
	thaw	thee	they	thigh	though	tie
	toe	tow	toy	wad	wade	wait
	watt	weed	weight	wet	what	wheat
	white	wide	wit	with	youth	
2	NOAH	WINE	honey	knee	ion	win
	an	ana	anew	ani	annoy	any
	ennui	gnaw	gnu	hen	hyena	in
	inn	know	neigh	new	nigh	no
	now	one	own	wan	wean	when
	wino					
3	ME	HOME	ammo	ham	hem	womb
	Emmy	May	may	mow	maw	aim
	him	hum	hymn	whim	whom	
4	RAY	ARROW	roe	hair	oar	wire
	air	are	area	aria	array	aura
	aware	awry	ear	era	err	hare
	harrow	hear	heir	her	here	hero
	hour	hurrah	hurry	ire	or	ore
	our	raw	rye	war	ware	wear
	weary	where	worry	year	yore	your

5	LAW	WHALE	ale	awl	aisle	eel
	Yale	Yule	ail	all	alley	allow
	alloy	ally	aloha	ell	hail	hall
	halo	haul	heal	heel	hell	hello
	hill	hole	hollow	holy	howl	hull
	ill	isle	lay	lei	lie	low
	lye	oil	ole	olla	owl	wail
	wall	wallow	waylay	wheel	while	whole
	will	willow	wool	yawl	yellow	
6	JAW	SHOE	witch	ash	edge	jay
	Asia	Jew	Joe	age	chew	chow
	each	etch	hash	hatch	hedge	hitch
	huge	hush	hutch	issue	joy	jus
	shah	she	show	shy	wage	wash
	watch	wedge	which	wish	woosh	
7	KEY	COW	oak	yak	hawk	hockey
	Hawkeye	IQ	Ike	ache	aggie	ago
	ague	awake	caw	coo	coy	cue
	echo	egg	ego	gay	go	guy
	hack	hag	hang	hick	hike	hock
	hog	hook	hookah	hooky	hug	quay
	queue	wake	walk	weak	week	whack
	wick	wig	yoga	yoke	young	
8	FEE	WAVE	view	hi-fi	hive	ivy
	ave	few	foe	half	halfway	have
	heave	heavy	hoof	huff	oaf	of
	off	via	vie	vow	waif	waive
	weave	wife				
9	PEA	PIE	hippie	buoy	bow	bay
	abbey	ape	be	beau	bee	boa
	bough	boy	buy	by	bye	ebb
	epee	happy	heap	hip	hobby	hobo
	hoop	hop	hope	hubby	obey	oboe
	paw	pay	pew	web	weep	whip
	whoopee	wipe				

10	TOTO	1 •	1.1	1 (1	. 1	1
10	TOES	daisy	odds	hothouse	idiots	deuce
	White-House	adds	ads	dais	days	daze
	dice	dizzy	does	dose	douse	doze
	eats	hideous	ideas	ides	idiocy	oats
	odious	tease	these	this	those	thus
	toss	twice	twos	wits		
11	TOT	TEDDY	date	tattoo	tidy	toad
	adit	audit	dad	data	dead	death
	debt	deed	deity	diet	dot	dote
	doubt	duty	edit	idiot	oddity	outwit
	thought	tide	tight	tithe	today	tooth
	tutu	without				
12	TAN	TUNA	Dane	dune	dawn	Eden
	Athena	atone	attain	attune	dean	deign
	den	deny	din	dine	done	down
	heathen	heighten	hidden	ten	than	then
	thin	thine	tin	ton	tone	tony
	town	tun	tune	twin	twine	
13	TAM	Adam	dime	dome	tomb	tome
	Edam	atom	autumn	dam	dame	deem
	demi	dim	doom	dumb	dummy	edema
	idiom	item	odeum	odium	tame	team
	teem	them	theme	thumb	thyme	time
14	TAR	tree	tire	tower	tray	tiara
	TRUE	adder	adhere	adore	attire	author
	dairy	dare	dear	deer	diary	door
	dower	dowry	draw	dry	dyer	either
	ether	hatter	heater	hither	hydra	odor
	other	otter	tare	tear	their	theory
	there	thorough	three	throw	tier	trio
	try	udder	utter	waiter	water	weather
	whiter	widower	wither			

15	TAIL	atoll	doll	doily	idol	tally
	Italy	daily	deal	delay	dial	dole
	dolly	dual	duel	dull	dwell	hotel
	huddle	ideal	idle	idyll	outlaw	outlay
	tale	tall	tallow	tell	tile	till
	toil	toll	tool	towel	whittle	
16	TISSUE	ditch	dish	adagio	Dutch	dash
	teach	touch	touche	thatch	duchy	dodge
	attache	attach	adage	whitewash		
17	TACK	DUCK	duke	thong	toga	thug
	Tokay	attack	attic	decay	deck	decoy
	dig	dike	ding	dock	dog	doing
	dong	dung	eating	ethic	haddock	headache
	heading	outing	tag	take	talk	thick
	thing	tick	tuck	twig	tyke	wedding
18	TAFFY	DOVE	toffee	diva	dive	thief
	TV	daffy	deaf	defy	edify	tiff
	tough	tuff				
19	TAP	TUBA	tabby	toupee	tip	tub
	adobe	dab	daub	debut	deep	depot
	dip	dope	doughboy	dupe	tab	taboo
	tape	tepee	top	tube	tup	type

20 NOSE anise noose niece hens highness once ones onus uneasy wins wines 21 NET knight knot aunt nude nut Hindu India and annoyed ant ante end endow gnat hand haunt hind hint hound hunt into knead knit naught neat need night not undo undue unit unite untie wand want went wind window wound 22 NUN ONION neon union noon nanny none nine ninen ninny noun no-one anon anyone inane 23 NAME GNOME enemy enema enum anemia annum numb 24 NERO WIENER honor winery whiner nor noria nowhere owner unaware 25 NAIL NARWHAL Nile inlay in-law unholy anal annual annual inhale kneel knell knoll newel newly nil null only 26 NICHE NACHO notch wench haunch hinge enjoy gnash hunch inch no-show nudge unhitch winch 27 NECK INK Inca nock hunk nook yankee awning inning knack knock nag nick nog unhook unique wink 28 NAYY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify NAP KNOB nib nub nape nappy nob							
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21NET Hinduknight India anti end hind hind hint hind hound hint note undo undo undo undo undue undo undue undo undue undo undue unit unit unit unit unit unit unite unite unite wand wand want wand want want wand want <br< th=""><th></th><th>nice</th><th>noise</th><th>ensue</th><th>hence</th><th>hens</th><th>highness</th></br<>		nice	noise	ensue	hence	hens	highness
Hindu India and annoyed ant ante anti end endow gnat hand haunt hind hint hound hunt into knead knit naught neat need night not unde unde unit unite untie wand want went wind window wound 22 NUN ONION neon union noon nanny none nine niney noun no-one anon anyone inane 23 NAME GNOME enemy enema enum anemia annum numb 24 NERO WIENER honor winery whiner winner noria nowhere owner unaware 25 NAIL NARWHAL Nile inlay in-law unholy anal annual annul inhale kneel knell knoll newel newly nil null only 26 NICHE NACHO notch wench haunch hinge enjoy gnash hunch inch no-show nudge unhitch winch 27 NECK INK Inca nock hunk nook yankee awning inning knack knock nag nick nog unhook unique wink 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify Niobe honeybee nab neap nip nob			ones	onus	uneasy		wines
anti end hint hound hunt into knead knit naught neat need night not undue unit unite untie wand want went wind window wound 22 NUN ONION neon union noon nanny none nine niney noun no-one anon anyone inane 23 NAME GNOME enemy enema enum anemia annum numb 24 NERO WIENER honor winery whiner winner nor noria nowhere owner unaware 25 NAIL NARWHAL Nile inlay in-law unholy anal annual annul inhale kneel knell knoll newel newly nil null only 26 NICHE NACHO notch wench haunch hinge enjoy gnash hunch inch no-show nudge unhitch winch 27 NECK INK Inca nock hunk nook Yankee awning inning knack knock nag nick nog unhook unique wink 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify 29 NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob	21	NET	knight	knot	aunt	nude	nut
hind hint hound hunt into knead knit naught neat need night not unde unde unit unite untie wand want went wind window wound 22 NUN ONION neon union noon nanny none nine ninny noun no-one anon anyone inane 23 NAME GNOME enemy enema enum anemia annum numb 24 NERO WIENER honor winery whiner winner nor noria nowhere owner unaware 25 NAIL NARWHAL Nile inlay in-law unholy anal annual annul inhale kneel knell knoll newel newly nil null only 26 NICHE NACHO notch wench haunch hinge enjoy gnash hunch inch no-show nudge unhitch winch 27 NECK INK Inca nock hunk nook yankee awning nick nog unhook unique wink 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify Niobe honeybee nab neap nip nob		Hindu	India	and	annoyed	ant	ante
knit naught neat need night untie untie wand want went wind window wound 22 NUN ONION neon union noon nanny none nine ninny noun no-one anon anyone inane 23 NAME GNOME enemy enema enum anemia annum numb 24 NERO WIENER honor winery whiner winner nor noria nowhere owner unaware 25 NAIL NARWHAL Nile inlay in-law unholy anal annual annul inhale kneel knell knoll newel newly nil null only 26 NICHE NACHO notch wench haunch hinge enjoy gnash hunch inch no-show nudge unhitch winch 27 NECK INK Inca nock hunk nook Yankee awning nick nog unhook unique wink 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify 29 NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob		anti	end	endow	gnat	hand	haunt
note undo undue unit unite untie wand want went wind window wound 22 NUN ONION neon union noon nanny none nine ninny noun no-one anon anyone inane 23 NAME GNOME enemy enema enum anemia annum numb 24 NERO WIENER honor winery whiner winner nor noria nowhere owner unaware 25 NAIL NARWHAL Nile inlay in-law unholy anal annual annul inhale kneel knell knoll newel newly nil null only 26 NICHE NACHO notch wench haunch hinge enjoy gnash hunch inch no-show nudge unhitch winch 27 NECK INK Inca nock hunk nook Yankee awning nick nog unhook unique wink 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify 29 NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob		hind	hint	hound	hunt	into	knead
wandwantwentwindwindowwound22NUNONIONneonunionnoonnannynonenineninnynounno-oneanonanyoneinaneenemyenemaenumanemia23NAMEGNOMEenemyenemaenumanemiaannumnumbnumbanemia24NEROWIENERhonorwinerywhinerwinneranywhereinhereinurenarrownearnewernornorianowhereownerunaware25NAILNARWHALNileinlayin-lawunholyanalannualannulinhalekneelknellknollnewelnewlynilnullonly26NICHENACHOnotchwenchhaunchhingeenjoygnashhunchinchno-shownudgeunhitchwinch27NECKINKIncanockhunknookYankeeawninginningknackknocknagnicknogunhookuniquewink28NAVYKNIFEnovaknavenephewnaiveenoughenvoyenvyinveighnaveunify29NAPKNOBnibnubnapenappyNiobehoneybeenabneapnipnob		knit	naught	neat	need	night	not
NUN		note	undo	undue	unit	unite	untie
none nine ninny noun no-one anon anyone inane 23 NAME GNOME enemy enema enum anemia annum numb 24 NERO WIENER honor winery whiner winner naryow near nor noria nowhere owner unaware 25 NAIL NARWHAL Nile inlay in-law unholy anal annual annul inhale kneel knell knoll newel newly nil null only 26 NICHE NACHO notch wench haunch hinge enjoy gnash hunch inch no-show nudge unhitch winch 27 NECK INK Inca nock hunk nook Yankee awning inning knack knock nag nick nog unhook unique wink 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify 29 NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob				went	wind	window	wound
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23NAME annumGNOME numbenemy enemyenema enemaenumanemia24NERO anywhere norWIENER inhere inhere inhere norhonor inure nowherewinery ownerwhiner winner near unaware25NAIL anal knollNARWHAL annual annual annual inhale kneel newly nilin-law in-law inhale kneel kneel knell knell nullunholy26NICHE enjoy gnash unhitchNACHO notchnotch wench haunch inchhaunch no-show nudge27NECK yankee awning nickINK inning inning unhookInca inning knack knack knockhunk knock nag nicknook nag nining inning knack knack knocknag nephew naive unify28NAVY enough enough envoyenvy envy envy inveighnave inveigh navenappy nappy nappy nip		none	nine	ninny	noun	no-one	anon
annum numb 24 NERO WIENER honor winery whiner winner anywhere inhere inure narrow near newer nor noria nowhere owner unaware 25 NAIL NARWHAL Nile inlay in-law unholy anal annual annul inhale kneel knell knoll newel newly nil null only 26 NICHE NACHO notch wench haunch hinge enjoy gnash hunch inch no-show nudge unhitch winch 27 NECK INK Inca nock hunk nook Yankee awning inning knack knock nag nick nog unhook unique wink 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify NICHE NACHO notch wench haunch hinge no-show nudge unhitch winch 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify NIOBE NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob							
24NERO anywhere norWIENER inhere inhere inurehonor inure narrow nowherewinery narrow ownerwhiner near near newer newer newer newer newer newer newer newer newer newer newer unaware25NAIL anal annual knollNARWHAL annual annual newelNile inlay inhale wench inch inch inchin-law kneel kneel kneel haunch inull no-show nudge26NICHE enjoy gnash unhitchNACHO hunch inchno-show no-show nudge27NECK Yankee awning inckInca inning inning knack knack knockhunk knock knock nag nicknook nag unhook unique wink28NAVY enoughKNIFE enova envy inveighnave inveigh nave unify29NAP NAP NiobeKNOB honeybeenib nabnub nape nappy nipnappy nob	23	NAME	GNOME	enemy	enema	enum	anemia
anywhere inhere nor noria nowhere owner unaware 25 NAIL NARWHAL Nile inlay in-law unholy anal annual annul inhale kneel knell knoll newel newly nil null only 26 NICHE NACHO notch wench haunch hinge enjoy gnash hunch inch no-show nudge unhitch winch 27 NECK INK Inca nock hunk nook Yankee awning inning knack knock nag nick nog unhook unique wink 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob		annum					
nor noria nowhere owner unaware 25 NAIL NARWHAL Nile inlay in-law unholy anal annual annul inhale kneel knell knoll newel newly nil null only 26 NICHE NACHO notch wench haunch hinge enjoy gnash hunch inch no-show nudge unhitch winch 27 NECK INK Inca nock hunk nook Yankee awning inning knack knock nag nick nog unhook unique wink 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify 29 NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob	24	NERO	WIENER	honor	winery	whiner	winner
25 NAIL NARWHAL Nile inlay in-law unholy anal annual annul inhale kneel knell knoll newel newly nil null only 26 NICHE NACHO notch wench haunch hinge enjoy gnash hunch inch no-show nudge unhitch winch 27 NECK INK Inca nock hunk nook Yankee awning inning knack knock nag nick nog unhook unique wink 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify 29 NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob		anywhere	inhere	inure	narrow	near	newer
anal annual annul inhale kneel knell knoll newel newly nil null only 26 NICHE NACHO notch wench haunch hinge enjoy gnash hunch inch no-show nudge unhitch winch 27 NECK INK Inca nock hunk nook Yankee awning inning knack knock nag nick nog unhook unique wink 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify 29 NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob		nor		nowhere	owner	unaware	
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26 NICHE NACHO notch wench haunch hinge enjoy gnash hunch inch no-show nudge unhitch winch 27 NECK INK Inca nock hunk nook Yankee awning inning knack knock nag nick nog unhook unique wink 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify 29 NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob			annual	annul			knell
enjoy gnash hunch inch no-show nudge unhitch winch 27 NECK INK Inca nock hunk nook Yankee awning inning knack knock nag nick nog unhook unique wink 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify 29 NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob				newly	nil	null	only
unhitch winch 27 NECK INK Inca nock hunk nook Yankee awning inning knack knock nag nick nog unhook unique wink 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify 29 NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob	26	NICHE	NACHO	notch			hinge
27NECK Yankee awning nickINK awning nog unhookInca inning unhooknock knack unique winkhunk nog wink28NAVY enoughKNIFE envynova envyknave inveighnephew nave unify29NAP NAP NiobeKNOB honeybeenibnubnape nappy nob			0	hunch	inch	no-show	nudge
Yankee awning inning knack knock nag nick nog unhook unique wink 28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob							
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28 NAVY KNIFE nova knave nephew naive enough envoy envy inveigh nave unify 29 NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob		Yankee	awning		knack		nag
enough envoy envy inveigh nave unify 29 NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob			nog	unhook	unique		
enough envoy envy inveigh nave unify 29 NAP KNOB nib nub nape nappy Niobe honeybee nab neap nip nob	28	NAVY	KNIFE	nova	knave	nephew	naive
Niobe honeybee nab neap nip nob				envy	inveigh		unify
	29				nub	nape	
unhappy			honeybee	nab	neap	nip	nob
		unhappy					

30	MASS	MOUSE	mace	maze	hummus	mice
	Messiah	aims	amass	amaze	amiss	amuse
	humus	mess	mews	miss	moose	moss
	muse	muss				
31	MAT	maid	moth	mud	mitt	midi
	amid	amity	emit	humid	mad	made
	mate	meadow	meat	meet	midday	midway
	might	mite	moat	mod	mode	mood
	motto	mouth	mute	myth	omit	
32	MAN	MOON	mane	hymen	mine	minnow
	amen	ammonia	human	main	mana	mania
	manna	many	mean	mien	moan	money
	omen	woman	yeoman			
33	MAMA	MUMMY	mime	imam	maim	Mau-Mau
	Miami	mayhem	memo	whim-wham		
34	MARE	HAMMER	Mary	mayor	merry	homer
	amour	emir	humor	mar	marrow	marry
	mere	mire	moor	more	myrrh	omer
35	MAIL	mule	mile	mole	mill	meal
	homely	homily	male	mall	melee	mellow
	moll					
36	MATCH	MASH	mesh	midge	mush	homage
	Amish	image	mashie	mooch	much	
37	MIKE	MUG	mica	hammock	mocha	Mecca
	Mohawk	amigo	amok	among	make	meek
	mock	muck	omega			
38	MUFF	MOVIE	mauve	Mafia	miff	move
	oomph					
39	MAP	AMP	hemp	hump	ump	amoeba
	imbue	imp	maybe	mob	mop	mope
	myopia					

10	DAGE	DOCE				
40	RACE	ROSE	racy	raise	rase	raze
	Warsaw	arouse	erase	eros	erose	harass
	hearsay	hearse	heiress	heresy	hers	hoarse
	horse	iris	ours	rice	rise	rouse
	ruse	warehouse	worse			
41	RAT	ROAD	rod	radio	wraith	Earth
	aorta	arid	aright	art	award	erode
	errata	hard	hart	heart	hearth	herd
	hereto	hoard	horde	horrid	hurried	hurt
	raid	rate	read	ready	red	reed
	rid	ride	right	riot	rite	root
	rot	route	rut	ward	wart	weird
	word	worried	worth	wrath	wreath	wreathe
	write	yard				
42	RAIN	REIN	reign	renew	run	ruin
	Aryan	Irene	Orion	Reno	Rhine	arena
	arraign	earn	hernia	heroin	heroine	horn
	iron	irony	rhino	rune	urn	warn
	worn					
43	RAM	RIM	rhyme	ream	room	rime
	Rome	Romeo	arm	army	aroma	harem
	harm	roam	rum	warm	worm	
44	REAR	AURORA	rare	roar	rower	arrear
	error	harrier	harrower	hearer	horror	orrery
			worrier			
	warrior	wearer	wonner			
45	warrior RAIL	RALLY	railway	real	reel	relay
45	RAIL aerial	RALLY earl	railway early	hourly	hurl	oral
45	RAIL	RALLY	railway early rill	hourly roil		-
	RAIL aerial oriole royal	RALLY earl rely rule	railway early	hourly	hurl role yearly	oral roll
45	RAIL aerial oriole royal RASH	RALLY earl rely rule ROACH	railway early rill whirl rage	hourly roil whorl ratio	hurl role	oral roll
	RAIL aerial oriole royal RASH Irish	RALLY earl rely rule	railway early rill whirl rage arch	hourly roil whorl ratio harsh	hurl role yearly Rajah orgy	oral roll
	RAIL aerial oriole royal RASH Irish ridge	RALLY earl rely rule ROACH	railway early rill whirl rage	hourly roil whorl ratio	hurl role yearly Rajah	oral roll
46	RAIL aerial oriole royal RASH Irish ridge wretch	RALLY earl rely rule ROACH Russia rouge	railway early rill whirl rage arch ruche	hourly roil whorl ratio harsh	hurl role yearly Rajah orgy rushee	oral roll reach rich
	RAIL aerial oriole royal RASH Irish ridge	RALLY earl rely rule ROACH Russia	railway early rill whirl rage arch	hourly roil whorl ratio harsh	hurl role yearly Rajah orgy	reach rich urge
46	RAIL aerial oriole royal RASH Irish ridge wretch	RALLY earl rely rule ROACH Russia rouge	railway early rill whirl rage arch ruche	hourly roil whorl ratio harsh rush	hurl role yearly Rajah orgy rushee	oral roll reach rich urge
46	RAIL aerial oriole royal RASH Irish ridge wretch RACK airing hearing	RALLY earl rely rule ROACH Russia rouge	railway early rill whirl rage arch ruche	hourly roil whorl ratio harsh rush	hurl role yearly Rajah orgy rushee	reach rich urge
46	RAIL aerial oriole royal RASH Irish ridge wretch RACK airing hearing rook	RALLY earl rely rule ROACH Russia rouge ROCK arc	railway early rill whirl rage arch ruche rake argue herring work	hourly roil whorl ratio harsh rush	hurl role yearly Rajah orgy rushee reek ergo	reach rich urge ring hark rogue
46	RAIL aerial oriole royal RASH Irish ridge wretch RACK airing hearing rook REEF	RALLY earl rely rule ROACH Russia rouge ROCK arc heroic rug rave	railway early rill whirl rage arch ruche rake argue herring work wharf	hourly roil whorl ratio harsh rush rag ark ragout wreck roof	hurl role yearly Rajah orgy rushee reek ergo	reach rich urge
47	RAIL aerial oriole royal RASH Irish ridge wretch RACK airing hearing rook REEF aerify	RALLY earl rely rule ROACH Russia rouge ROCK arc heroic rug	railway early rill whirl rage arch ruche rake argue herring work	hourly roil whorl ratio harsh rush rag ark ragout wreck	hurl role yearly Rajah orgy rushee reek ergo rig	reach rich urge ring hark rogue
47	RAIL aerial oriole royal RASH Irish ridge wretch RACK airing hearing rook REEF aerify ruff	RALLY earl rely rule ROACH Russia rouge ROCK arc heroic rug rave arrive	railway early rill whirl rage arch ruche rake argue herring work wharf	hourly roil whorl ratio harsh rush rag ark ragout wreck roof	hurl role yearly Rajah orgy rushee reek ergo rig	reach rich urge ring hark rogue rife
47	RAIL aerial oriole royal RASH Irish ridge wretch RACK airing hearing rook REEF aerify	RALLY earl rely rule ROACH Russia rouge ROCK arc heroic rug rave	railway early rill whirl rage arch ruche rake argue herring work wharf	hourly roil whorl ratio harsh rush rag ark ragout wreck roof	hurl role yearly Rajah orgy rushee reek ergo rig	reach rich urge ring hark rogue rife
46 47 48	RAIL aerial oriole royal RASH Irish ridge wretch RACK airing hearing rook REEF aerify ruff	RALLY earl rely rule ROACH Russia rouge ROCK arc heroic rug rave arrive	railway early rill whirl rage arch ruche rake argue herring work wharf horrify	hourly roil whorl ratio harsh rush rag ark ragout wreck roof review	hurl role yearly Rajah orgy rushee reek ergo rig revue rough	reach rich urge ring hark rogue rife rove
46 47 48	RAIL aerial oriole royal RASH Irish ridge wretch RACK airing hearing rook REEF aerify ruff ROPE	RALLY earl rely rule ROACH Russia rouge ROCK arc heroic rug rave arrive	railway early rill whirl rage arch ruche rake argue herring work wharf horrify	hourly roil whorl ratio harsh rush rag ark ragout wreck roof review	hurl role yearly Rajah orgy rushee reek ergo rig revue rough	reach rich urge ring hark rogue rife rove

- FO	LACE	Tanaia	1	1	1	1,,,,,
50	LACE Eliza	Lassie	lass	lazy	lasso	lease
		Lucy	alas	alehouse	alias	allies
	also	always	else	lees	less	lessee
	loose	lose	loss	louse	luce	
51	LOT	EYELID	lad	lathe	late	lady
	Hollywood	alight	alit	allied	allot	allowed
	allude	aloud	although	elate	elite	halt
	health	helot	hilt	hold	holiday	islet
	lath	lead	let	lid	lido	light
	load	loath	loot	loud	lout	lute
	old	wallet	wealth	wild		
52	LANE	LION	lawn	lean	lien	line
	Halloween	alien	alone	hellion	loan	loin
	loon	woolen				
53	LIME	LLAMA	lame	lamb	lima	lime
	Limey	alum	elm	haulm	helium	helm
	limb	loam	loom			
54	LAIR	LYRE	layer	lawyer	leer	liar
	Holy-Year	allure	healer	holler	lorry	lower
	lure	oiler	whaler		J	
55	LILY	OIL-WELL	holy-oil	Loyola	lowly	whale-oil
	Walhalla	hallelujah	hula-hula	ill-will	lolly	loyal
	lull	lulu			•	,
56	LASH	LEECH	latch	leash	liege	ledge
	Welsh	allege	hellish	lodge	loge	lush
	ullage	0		0	0	
57	LAKE	hollyhock	elk	league	lug	lung
	ailing	alike	along	hillock	hulk	ilk
	lac	lack	lackey	lag	leak	leek
	leg	lick	like	lock	loco	log
	long	look	low-key	luck	whaling	O
-58	LEAF	WOLF	lava	olive	elf	loaf
	alive	aloof	laugh	leave	levee	levy
	life	live	love	luff	welloff	;
-59	LAP	WALLABY	elbow	lobe	lab	loop
	leap	alibi	alp	elope	help	lip
	lob	lobby	lop	lowboy	wallop	whelp
	100	1000y	10p	10 W DO y	wanop	wherh

	CLIECC	CLIEFCE	1 .	1	1 .	1 .
60	CHESS	CHEESE	chassis	chase	chaise	choice
	Jaycee	Jewess	ages	ashes	choose	joyous
	juice	schuss	wages			
61	JET	JUDO	cheetah	chateau	jade	jetty
	aged	chat	cheat	chit	chute	jot
	jute	shad	shade	shadow	sheath	shed
	sheet	shoot	shot	shout	shut	washed
	widget					
62	CHAIN	chin	gin	ocean	china	hygiene
	Jane	John	June	Shawnee	chine	join
	shine	shown	shun	widgeon		,
63	CHIME	CHAMOIS	chum	gem	gym	jam
	Jim	jamb	sham	shame	shammy	shim
	shimmy	,			-	
64	CHAIR	JAR	sherry	washer	usher	cherry
	Hoosier	assure	azure	char	cheer	chore
	edger	hosiery	jeer	jury	osier	share
	shear	sheer	shire	shore	shower	sure
	wager					
65	JAIL	CHILI	jelly	jewel	shell	shawl
A	Chile	July	agile	chill	jolly	jowl
	shall	shallow	shill	shoal	shyly	usual
66	JUDGE	HASHISH	juju	Jewish	cha-cha	choochoo
В	chichi	chowchow	jaygee	josh	shoji	shush
	wishy-washy		, , 0	,	,	
67	CHALK	JUG	jack	sheikh	chick	cheek
C	Django	aging	check	chic	choke	chuck
	chug	etching	itching	jingo	jock	jockey
	joke	shack	shag	shake	shako	shock
	shuck	washing	watching	wishing		
68	CHEF	CHEVY	chief	sheaf	chaff	chive
D	Java	Jehovah	achieve	chafe	jayvee	jiffy
	jive	shave	shove	wash-off	, ,	, ,
69	CHIP	JEEP	jib	sheep	ship	Job
Е	GP	chap	chapeau	cheap	chop	chubby
	gyp	jab	jibe	job	shabby	shape
	ship	shop	,	,	- · · · · · · · · · · · · · · · · · · ·	r
	F	F				

	0.4.0=	0000=		1 .		
70	CASE	GOOSE	gas	kiss	ox	eggs
F	accuse	acquiesce	ax	cause	causeway	chaos
	cozy	cuss	gauze	gaze	guess	guise
	guys	hex	hoax	quasi	wax	
71	CAT	GOAT	kit	kid	co-ed	caddie
G	God	Kate	acquit	act	acute	coat
	code	cot	cut	cute	gaiety	gait
	gat	gate	gaudy	get	ghetto	goad
	good	gout	guide	kite	kitty	quiet
	quit	quite	quota	quote	weekday	wicked
	wicket					
72	CAN	GUN	coin	queen	cone	cane
Η	acne	again	agony	awaken	canoe	coon
	gain	gown	guinea	icon	keen	kin
	oaken	wagon				
73	CAM	COMB	acme	calm	cameo	coma
I	come	comma	gam	game	gum	hokum
	oakum	wigwam				
74	CAR	CHOIR	gear	curry	hiker	hooker
J	accrue	acquire	acre	agar	agree	anger
	care	carry	coheir	cohere	core	cower
	crew	crow	cry	cur	cure	eager
	eagre	ecru	euchre	gory	grey	grow
	guru	hugger	occur	ogre	okra	quarry
	queer	quire				
75	COAL	GLUE	coil	eagle	gull	quill
K	Gaul	call	claw	clay	clew	clue
	collie	cool	coolie	equal	gal	gale
	gall	galley	glee	glow	goal	gully
	hackle	haggle	heckle	kale	keel	keyhole
	kill	ogle	quail	ugly	weekly	
76	CAGE	GAUGE	cashew	gaucho	coach	couch
L	cash	catch	cache	cachet	gash	gage
	gush	gauche	ketch	kedge	hoggish	hogwash
	waggish					
77	CAKE	CAULK	cook	gong	king	cookie
M	cock	coke	cacao	cuckoo	gag	gangway
	gang	going	goo-goo	gook	kaka	kayak
	khaki	kick	keg	quack	quake	quick
	aching	agog				
78	CUFF	CAVE	calf	cafe	coffee	agave
N	cough	cove	covey	gaff	give	goof
	guava	guff	guffaw	quaff		
79	CAP	COWBOY	cob	cab	guppy	cube
O	cabby	cape	coop	cop	cope	copy
	cub	cup	gab	gap	gape	hang-up
	hiccup	keep	occupy	okapi	quip	wickiup
	wicopy					

80	FACE	VASE	fuse	vise	visa	vice
оо Р	efface	effuse	fizz	fusee	fuss	fuzz
Г	office	phase	voice	Tusee	luss	Tuzz
81	FAT	PHOTO	foot	fiat	voodoo	anhi d
		aft				aphid effete
Q	afoot		aviate	avid	avoid	
	evade	fad	fade	faith	fate	feat
	feed	fete	feud	fight	fit	food
	off-white	ovate	veto	void	vote	waft
82	FAN	PHONE	vine	fawn	van	fanny
R	Vienna	avenue	euphony	even	fain	feign
	fen	fin	fine	fun	haven	heaven
	hyphen	often	oven	ovine	phony	vain
	vane	vein	woven			
83	FAME	FOAM	ovum	fume	vim	
S						
84	FARE	FIRE	Pharaoh	fairway	ferry	ivory
T	afar	affair	affray	aviary	euphoria	ever
	fair	fairy	far	faro	fear	fiery
	fir	for	foray	four	foyer	fray
	free	fry	fur	furrow	fury	half-year
	heifer	hoofer	off-year	offer	over	vary
	veer	very	viewer	waiver	waver	weaver
	woofer	•				
85	FALL	EIFFEL	flea	veil	viola	waffle
U	avail	avowal	awful	fail	feel	fell
	fellow	file	fill	filly	flaw	flee
	flow	fly	foal	foiĺ	follow	folly
	fool	foul	fowl	fuel	full	hovel
	offal	oval	phial	vail	valley	value
	veal	vial	vile	volley	vowel	
86	FISH	FUCHSIA	fudge	effigy	phage	voyage
V	affiche	fetch	fichu	offish	vetch	vouch
87	FIG	FANG	fog	fake	Vogue	havoc
W	evoke	fag	foggy	fogie	having	heaving
	offing	vague	vic	viewing	waving	weaving
88	FIFE	FIEF	five	viva	half-off	
X						
89	FOB	FOP	veep	vip	Phoebe	phobia
Y	faux-pas	fib	half-pay	11	1110000	Priobla
1	raux-pas	110	man-pay			

90	BASE	BUS	pizza	bass	booze	boss
Z	PS	abuse	abyss	apiece	apis	appease
	basso	bias	boys	busy	buzz	epos
	obese	oppose	opus	pace	pass	pause
	peace	piazza	piece	pious	poise	pose
	pussy					
91	BAT	BOAT	bath	opiate	poet	bait
	abate	abet	abide	abode	about	apathy
	apt	bad	bead	beat	beauty	bed
	bet	bid	bight	bit	bite	body
	boot	booth	both	bout	boyhood	bud
	buddy	but	butt	habit	opt	pad
	pat	path	peat	pet	petty	piety
	pit	pity	pot	pout	put	putty
92	BEAN	BUNNY	pan	pony	piano	pine
	ban	bane	bin	bine	bone	boon
	bun	ebony	happen	pain	pane	pawn
	pen	penny	pin	pone	pun	subpoena
	weapon					
93	BEAM	bomb	puma	palm	bum	balm
	Bohemia	boom	opium	poem		
94	BAR	bear	berry	opera	pear	prey
	Boer	Hebrew	abhor	apiary	appear	bare
	beer	beware	bier	boar	bore	borough
	borrow	brew	brow	bureau	bury	buyer
	hopper	pair	par	pare	parry	payer
	peer	pier	poor	pore	pour	power
	pray	prow	pry	purr	pyre	upper

95	BALL	BELL	opal	bowl	apple	pillow
	able	appall	appeal	apply	bail	bale
	belay	belly	below	bile	bill	billow
	blow	blue	boil	bull	bylaw	eyeball
	happily	highball	hobble	hoopla	pail	pal
	pale	payola	peal	peel	pile	pill
	play	plea	plough	plow	ploy	ply
	pole	poll	pool	pull	pulley	uphill
	wobble					
96	BADGE	apogee	bijou	hibachi	bush	pouch
	Apache	abash	apish	batch	beach	beech
	botch	boyish	budge	page	pasha	patch
	peach	pitch	poach	posh	pudgy	push
97	BACK	BIKE	book	bouquet	buck	bog
a	aback	bag	bake	bang	beak	beck
	beg	being	big	bogey	bug	buggy
	epic	epoch	opaque	pack	pang	peak
	peck	peek	peg	pick	pig	pike
	pique	poke	puck			
98	BEEF	BEEHIVE	buffet	puff	buff	payoff
b	ab-ovo	above	behalf	behave	bevy	biff
	buffo	pave	peeve			
99	PIPE	BABY	papa	pope	poppy	puppy
С	babe	bib	bob	bobby	boo-boo	boob
	booby	bop	hubbub	pap	peep	pip
	pop					

100	THESIS	decease	decisive	desist	disaster	disease
d	disuse	dissuasive	daisies	deuces	doses	diocese
101	TOAST	tacit	taste	test	testimony	Tuesday
e	twist	deceit	decide	deist	destiny	destitute
C	destruct	distance	distaste	distinct	distinguish	distract
	distress	distribute	district	distrust	disturb	dust
	atheist	attest	audacity	outside	distuib	dust
102	DOZEN	decent	descent	design	dishonest	disinclined
f	disinfect	disinterest	disown	dissent	dissonant	dizziness
1	Whitsunday	Docent	uisowii	uissein	uissonam	uizziiiess
103	TWOSOME	theism	deism	decimal	disembark	dismay
	dismember	December	dismiss	dismount	dissemble	dissimilar
g	atheism	decimeter	decimate	disilibulit	dissemble	uissiiiiiai
104	DOWSER	dicer	thesaurus	desert	dessert	deserve
		disarm			dishearten	
h	desire		disarrange	discern		disorder
	disregard douser	disreputable	disroot	dissertation	disrobe	disrupt
105		1 1	11.	11	disillusion	dislike
105	DIESEL dislocate	tassel	dazzle	desolate		
i		dissolve	docile	deciliter	disloyal	white-sale
100			1	1 1	1	
106	WOOD-sage	dosage	decision	discharge	dissuasion	autosuggestion
j	WOOD-sage	dosage		O		
<u>j</u> 107	WOOD-sage TUSK	dosage	desk	disk	discolor	discomfort
j	WOOD-sage TUSK disclose	dosage task disconnect	desk discontent	disk discord	discolor discount	discomfort discourage
<u>j</u> 107	WOOD-sage TUSK disclose discourse	dosage task disconnect discover	desk discontent discrete	disk discord discriminate	discolor discount discuss	discomfort discourage disgrace
107 k	WOOD-sage TUSK disclose discourse disguise	task disconnect discover disgust	desk discontent discrete disquiet	disk discord discriminate dusk	discolor discount discuss outskirts	discomfort discourage disgrace doeskin
j 107 k	TUSK disclose discourse disguise ADHESIVE	task disconnect discover disgust tea-sieve	desk discontent discrete disquiet theosophy	disk discord discriminate dusk deceive	discolor discount discuss	discomfort discourage disgrace
j 107 k 108 1	TUSK disclose discourse disguise ADHESIVE disavow	task disconnect discover disgust tea-sieve disfigure	desk discontent discrete disquiet theosophy disfavor	disk discord discriminate dusk deceive satisfaction	discolor discount discuss outskirts decipher	discomfort discourage disgrace doeskin disaffect
j 107 k	TUSK disclose discourse disguise ADHESIVE disavow TEASPOON	task disconnect discover disgust tea-sieve disfigure thespian	desk discontent discrete disquiet theosophy disfavor toss-up	disk discord discriminate dusk deceive satisfaction despot	discolor discount discuss outskirts decipher despair	discomfort discourage disgrace doeskin disaffect
j 107 k 108 1	TUSK disclose discourse disguise ADHESIVE disavow TEASPOON decibel	task disconnect discover disgust tea-sieve disfigure thespian despite	desk discontent discrete disquiet theosophy disfavor toss-up despond	disk discord discriminate dusk deceive satisfaction despot disabled	discolor discount discuss outskirts decipher despair diaspora	discomfort discourage disgrace doeskin disaffect deception disappear
107 k 108 1 109	TUSK disclose discourse disguise ADHESIVE disavow TEASPOON decibel disappoint	task disconnect discover disgust tea-sieve disfigure thespian despite disapprove	desk discontent discrete disquiet theosophy disfavor toss-up despond disciple	disk discord discriminate dusk deceive satisfaction despot disabled disobey	discolor discount discuss outskirts decipher despair diaspora dispatch	discomfort discourage disgrace doeskin disaffect deception disappear dispense
107 k 108 1 109	TUSK disclose discourse disguise ADHESIVE disavow TEASPOON decibel	task disconnect discover disgust tea-sieve disfigure thespian despite	desk discontent discrete disquiet theosophy disfavor toss-up despond	disk discord discriminate dusk deceive satisfaction despot disabled	discolor discount discuss outskirts decipher despair diaspora	discomfort discourage disgrace doeskin disaffect deception disappear

110	TIGHTS	tedious	toothsome	tootsy	deduce	detest
n	statesman	status	statistical	studious		
111	TEETOTALER	tete-a-tete	tidied	dietetic	day-duty	deadwood
O	doodad	dotted	doubted	attitude	audited	outwitted
112	TITAN	Titanic	tetanus	tea-dance	two-tone	tidiness
p	tighten	deaden	detain	detonate	dead-end	sedateness
	steadiness	stoutness	student			
113	TOTEM	diadem	teatime	two-timer	tedium	TeDeum
q	datum	daytime	stadium			
114	TATAR	tater	tea-tray	tatter	theater	thither
r	tooter	totter	tutor	dater	daughter	deter
			_			11
	deteriorate	determine	detract	detriment	daydreamer	diatribe
	deteriorate auditor	determine editor	detract headwater	detriment hot-water	daydreamer stutter	diatribe
115					•	titillate
115 s	auditor	editor	headwater	hot-water	stutter	
	auditor TITLE	editor tattle	headwater tittle	hot-water tidal	stutter tootle	titillate
	auditor TITLE total	editor tattle dawdle	headwater tittle doodle	hot-water tidal dateline	stutter tootle	titillate
s	auditor TITLE total deadly	editor tattle dawdle detail	headwater tittle doodle thoughtless	hot-water tidal dateline state-line	stutter tootle deadline	titillate dead-letter
s 116	auditor TITLE total deadly	editor tattle dawdle detail	headwater tittle doodle thoughtless	hot-water tidal dateline state-line	stutter tootle deadline	titillate dead-letter
s 116 t	auditor TITLE total deadly DEATHWATCH	editor tattle dawdle detail detach	headwater tittle doodle thoughtless death-wish	hot-water tidal dateline state-line dotage	stutter tootle deadline hot-dish	titillate dead-letter dead-issue
s 116 t 117	auditor TITLE total deadly DEATHWATCH HOT-dog	editor tattle dawdle detail detach tie-tack	headwater tittle doodle thoughtless death-wish	hot-water tidal dateline state-line dotage	stutter tootle deadline hot-dish	titillate dead-letter dead-issue
s 116 t 117 u	auditor TITLE total deadly DEATHWATCH HOT-dog detect	editor tattle dawdle detail detach tie-tack detective	headwater tittle doodle thoughtless death-wish toothache tidings	hot-water tidal dateline state-line dotage dating idiotic	stutter tootle deadline hot-dish dedicate	titillate dead-letter dead-issue deduct
s 116 t 117 u 118	auditor TITLE total deadly DEATHWATCH HOT-dog detect AUTO-da-fe	editor tattle dawdle detail detach tie-tack detective tutti-frutti	headwater tittle doodle thoughtless death-wish toothache tidings thoughtful	hot-water tidal dateline state-line dotage dating idiotic dative	stutter tootle deadline hot-dish dedicate	titillate dead-letter dead-issue deduct

120	DANCE	tinsel	tenacity	tennis	tense	thence
120 X	tonsil	dense	dunce	ad-nauseam	Adonis	Athens
Α.	audience	haughtiness	dynasty	utensil	whiteness	witness
	sadness	110.00.6111111000	ery riole by	0.001.011	Wilderiess	***************************************
121	DOUGHNUT	tent	taint	taunt	tenth	tendon
У	tend	thunder	tint	tender	twenty	TNT
J	twi-night	tantalize	dainty	dandy	denote	dent
	dentist	denude	dint	dwindle	attend	authentic
	addendum	identical	identify	whodunit	stand	stint
	astound		,			
122	ATHENIAN	tenant	tenon	teeny-weeny	denounce	adonian
\mathbf{z}	hootenanny					
123	TENEMENT	thin-man	tonometer	town-meeting	denim	Denmark
	denomination	dynamo	dynamite	atonement	attainment	autonomy
	outnumber					
124	TENOR	tanner	teener	tenure	thinner	tone-arm
	tuner	diner	dinner	donor	downright	wet-nurse
	whitener	itinerary				
125	TUNNEL	toenail	thinly	tonal	town-hall	denial
	downhill	ethanol	stainless			
126	TEENAGER	tonsure	tenacious	tannage	tension	tonnage
	township	Danish	dunnage	donation	dungeon	twinge
	astonish	stench	attention	wooden-shoe		
127	TANK	thank	think	tincture	tinker	tonic
	tunic	twinkle	dank	dinky	dining	donkey
	Don-Quixote	ethnic	hoodwink	satanic	stenographer	
128	TUNA-FISH	tinfoil	tenfold	ten-footer	tea-knife	tuneful
	twinflower	de-novo	downfall			
129	DUNE-BUGGY	tenpin	tenpounder	tinplate	tune-up	twin-bill
	down-payment	downbeat	downpour	donnybrook	Danube	stoneblind

130	THAMES	Thomas	teamster	toam song	Thames	thoma cona
130	damask	damsel	domestic	team-song domicile	demise	theme-song admissible
	atomizer		utmost	domicie	demise	aumissible
101	TOMATO	atmosphere		timid	t	time a seek
131		tamed	tom-tom		tumid	timeout
	thumbtack	daymaid	deemed	demit	diameter	dumdum
	dumbwaiter	adamite	admit	automate	odometer	estimate
	esteemed					
132	DOMINO	T-man	Tammany	thiamine	time-honored	thumbnail
	tameness	demand	demeanor	demonstrate	demon	diamond
	dimension	diminish	dominate	domain	dominion	administer
	admonish	autumnal	headman	ottoman	stamina	sediment
133	DEMIMONDE	teammate	time-money	time-immemorial	dime-museum	demi-magic
134	TAMER	tamarind	timer	tomorrow	tommyrot	Tia-Maria
	tumor	demure	demarche	demarcation	admirer	admiral
	stammer	steamer				
135	TAMALE	time-lag	time-loan	tumult	timeless	time-limit
	timely	time-lock	demolish	dimly	dome-light	etymologist
	oatmeal	stimulant		•		
136	STEAMSHIP	time-sheet	time-chart	tam-o-shanter	damage	demijohn
	dumb-show	admission	automation	atom-age	Edam-cheese	estimation
137	TOMAHAWK	tomcat	team-captain	time-card	timekeeper	tommy-gun
	tummyache	taming	timing	teeming	demagogue	demigod
	democrat	atomic	stomach	O	0 0	O
138	ATOM-FORCE	tomfool	time-fuze	time-value	team-foul	time-off
	dumbfounded	duumvirate	hit-movie	steamfitter		
139	TOMBOY	temper	temperature	temperance	tempest	temple
	template	team-play	team-boat	timber	timpani	tympan
	tombolo	thimble	thump	tumble	damp	dimple
	dumbbell	dump	automobile	stamp	stump	r
				2P	2000011	

140	TERRACE	tricycle	tea-rose	thrice	torso	thirst
	Thursday	trace	throes	tress	trews	truce
	dress	dresser	dressing	drizzle	drowsy	duress
	address	atrocity	authoress	waitress	otherwise	storehouse
	stress					
141	TURRET	tart	tardy	territory	tread	treadle
	treat	trade	trait	triton	treaty	trident
	trout	truth	turtle	third	thirty	thirteen
	thread	threat	throat	thyroid	dart	dearth
	diehard	dirt	dread	drought	druid	adroit
	authority	iterate	outright	yesterday	Saturday	start
	strait	straight	stratagem	street	stride	strut
	sturdy					
142	TERRAIN	train	trainee	thorn	throne	torrent
	trance	translation	transport	trench	turn	tourney
	turnip	tyrant	darn	drain	drench	dirndl
	drink	drown	drunk	dryness	adherent	adorn
	attorney	eternal	outrun	utterance	astronaut	historian
	strain					
143	DREAM	tearoom	term	terminal	thermometer	torment
	tram	tramp	trampoline	tremble	trim	trombone
	trumpet	theorem	turmoil	diorama	drama	dermatology
	dram	drome	dormer	dormitory	drum	dramamine
	stream	streamer	uttermost	watermelon	watermark	
144	TERROR	terrier	trier	darer	dearer	drawer
	dreary	dryer	dry-run	adorer	outerwear	waterer
	water-rat	water-right				

145	TRAIL	trial	trawl	thrill	trellis	trowel
	trolley	twirl	truly	truelove	tarheel	trilogy
	darling	derail	drill	droll	door-lock	water-hole
	water-lily	starling	astrologer	sterile	sterling	stroll
	Waterloo					
146	TRASH	tragedy	torch	thrash	thrush	traject
	treachery	treasure	tear-sheet	dredge	derision	dirigible
	drudge	duration	adoration	atrocious	authorship	hydrogen
	outrage	ostrich	starch	storage	stretch	sturgeon
	attrition					
147	TREK	truck	track	tractor	tract	trick
	tricolor	turkey	target	turk	throng	dark
	daring	direct	doorkeeper	drag	dragon	drawing
	drug	during	director	dreg	dragnet	drake
	dirk	attract	staircase	stark	streak	strength
	strike	strict	string	strong	structure	stroke
	struggle	historical				
148	TREIF	turf	trophy	tariff	terrific	terrify
	thrift	thrive	traffic	travel	trifle	truffle
	tearful	trove	trough	drivel	draft	drift
	drive	drove	draught	derive	dwarf	atrophy
	hydrophobia	waterfall	strive	strafe	weather-vane	
149	TRAP	tarpaulin	tripod	trapeze	treble	terrible
	throb	torpedo	trip	tribe	tribunal	triple
	troop	troupe	trouble	turbine	turbot	tribute
	drab	drape	drawback	drip	droop	drop
	durable	derby	adorable	attribute	strap	stirrup
	strawberry	strip	stripe	water-boy	waterproof	

150	TEL ECCOPE	. 1	. 1	. 1	(*1	. 11:
150	TELESCOPE	tails	tales	tools	tiles	tallies
	tollhouse	delusive	dollhouse	doilies	dailies	atlas
	idealize	idolize	headless	hatless	outlast	utilize
151	TALIT	toilet	telltale	tilt	twilight	teletype
	too-late	toehold	daylight	delight	delude	dilate
	dilute	doldrums	dolt	adult	adultery	athlete
	etiolated	idolatry	utility	withhold	outlet	stealth
152	TALON	tail-end	toluene	towline	talent	dalliance
	DEW-Line	delineate	delinquent	headline	hot-line	headland
	idleness	Italian	outline	stillness	Stalin	
153	THALLIUM	tollman	teleman	telemark	toolmaker	tallyman
	Talmud	dalmatian	dilemma	dolomite	head-lamp	hotelman
	hoodlum	stalemate	settlement			
154	TAILOR	tiller	tolerate	tailer	teller	toolroom
	dealer	dialer	dollar	dueler	hotel-room	idler
	yodeler	settler	stellar	stealer		
155	DAY-lily	telelens	tall-oil	taillight	telial	tileless
	tallowless	teleology	Dalai-Lama	stellular	still-life	styleless
156	TOOL-shed	tail-shaft	tallish	tillage	tollage	theologian
	delicious	deluge	delusion	diligence	dilution	adulation
	etiology	stylish		_		
157	TAILGATE	telegram	toll-call	telling	tollgate	talc
	dealings	delegate	delicacy	dwelling	dialect	dialogue
	headlong	outlook	wedlock	_		
158	TAIL-fin	telephone	television	twelve	tell-off	delve
	deliver	doleful	dolphin	Delft	dollface	outlive
159	TULIP	tailpiece	tholepin	tilbury	tailpipe	telepathy
	tallboy	tollbooth	toolbox	talebearer	day-laborer	deliberate
	dilapidate	dollop	doll-up	ad-lib	-	
	-	-	-			

160	DUCHESS	tea-chest	touchstone	touch-system	digest	dishes
	audacious	headcheese		·	<u> </u>	
161	DIGIT	touchwood	touchdown	touch-type	ditched	dished
	dashed	dodged	dish-towel	dishwater	ditchdigger	attached
	hotshot	whitewashed				
162	EDITION	station	tuition	teach-in	tee-joint	dudgeon
	Dutch-uncle	addition	audition	outshine	stagehand	hesitation
163	TAJ-MAHAL	touch-me-not	touchmark	Dutchman	attachment	stage-manager
164	TEACHER	T-shirt	dasher	dodger	dowager	de-jure
	autogiro	etagere	wheat-germ			
165	DASH-LIGHT	touchline	touchhole	Dutch-elm	Dutch-light	
166	DISHWASHER	touch-watch	dodge-chain	Dutch-cheese	head-judge	
167	STAGECOACH	thatch-grass	teaching	touching	dashing	dodging
	deject	hatcheck	woodchuck	staging		
168	DUTCH-OVEN	touch-off	Dutch-wife	dash-off	disheveled	dishful
	wheat-chaff	stage-fright				
169	DODGE-BALL	tissue-paper	toy-shop	touchback	touch-up	odd-job
	dish-up					

170	TAXI	tax	Texas	text	textile	tonge
170	things	tea		decks	dachshund	tongs dexterity
			cozy attics	ethics	outcast	suitcase
1.71	doghouse	dogs				
171	DOCTOR	teakettle	tact	thicket	ticktack	ticket
	together	teakwood	tag-day	decadent	decade	decode
	docket	dictate	decathlon	ductile	dogwood	adequate
	edict	etiquette	educator			
172	TOUCAN	token	tea-wagon	tycoon	taken	thicken
	thickness	technical	deacon	decanter	dignity	stagnant
173	DOCUMENT	thingumajig	Tecumseh	autogamy	decompose	dogma
	degum	decamp	day-camp	stigma		
174	TIGER	ticker	tea-garden	dagger	decorate	decrease
	decree	decry	degree	degrade	digress	digger
	dacron	doggerel	autograph	autocar	attacker	outcry
	outgrow	stagger	stoker	stacker		•
175	TACKLE	tangle	tickle	tingle	tongue-lash	tag-line
	tequila	toggle	dangle	declaim	declare	decline
	decal	ducal	stockholder			
176	DICTIONARY	tuck-shop	take-issue	dockage	doggish	dogwatch
	dog-show	eduction	education			
177	HOT-cake	tea-cake	tacking	tagging	decaying	digging
	dogging	attacking	outgoing	sticking	stocking	stock-exchange
178	TAKEOFF	tick-off	tick-fever	dogface	dogfight	dogfish
	dog-food	dogfoot	duckfooted	hot-coffee	wedding-vow	outgiving
	stockfish	<u> </u>			Č	
179	STICKUP	teacup	take-up	toe-cap	dig-up	decapitate
	decoupage	hiding-place	stockbroker	-		-

180	DEVICE	two-faced	two-fisted	two-phase	thieves	typhus
	deface	devastate	deficit	diffuse	divest	dovehouse
	advise	edifice	whiteface			
181	DAVID	taffeta	theft	Tophet	typhoid	tuft
	daft	deft	davit	defeat	daffodil	devoid
	devote	devout	diphtheria	divide	deviate	diphthong
	hotfoot	outfit	outvote	stevedore	eightfooter	
182	TIFFANY	typhoon	toughness	tiffin	deafen	defense
	defiant	define	dauphin	divan	divine	advent
	advance	advantage				
183	DEAFMUTE	tea-family	tough-minded	TV-man	defame	
184	TAVERN	taffrail	tovarich	thievery	defer	deform
	defraud	defray	devour	diaphragm	differ	diver
	diverse	divorce	defrost	deaf-ear	adverse	advertisement
185	DEVIL	tefillin	tivoli	tough-luck	twofold	toyful
	defalcation	defile	deflate	develop	duffel	hatful
	hateful	outfield	outflow	white-elephant	youthful	stifle
	wistful					
186	DEVOTION	TV-show	thievish	deficiency	deviation	dovish
	diffusion	division	audiovisual	whitefish	hot-fudge	
187	TOUGH-guy	de-facto	defect	difficult	diving	advocate
	edification	staffing	stuffing			
188	TV-fan	two-fifths	thief-vault	dive-off	eighty-five	stave-off
189	DIVE-bomber	taffy-pull	V	tough-boy	edifiable	stovepipe
	stove-pot					

190	TAPAS	topsail	top-sergeant	top-secret	topside	topsoil
	topsy-turvy	tapestry	tipsy	tips	tops	tubes
	tubs	types	debase	deposit	dubious	autobus
	autopsy	headpiece	outpace	1		
191	DEBUTANT	teapot	tepid	tiptoe	top-hat	top-dog
	topdrawer	towpath	two-bit	debate	debit	depth
	deputy	adapt	adept	adopt	output	hotbed
	outbid	stupid	-	-	-	
192	HATPIN	tiepin	topknot	topnotch	thighbone	twopence
	debenture	deepen	debonair	depend	depone	Dubonnet
	Ethiopian	headpin	outbound	headband	-	
193	STEPMOTHER	topman	topmast	topmost	top-milk	topminnow
194	TYPEWRITER	tie-bar	tea-party	taper	tapir	taproom
	topper	topwork	top-round	top-rate	daybreak	debar
	depart	dapper	debris	department	deportment	depreciate
	depress	deprive	dipper	diaper	outboard	outbreak
	sideboard	sideburns	stubborn			
195	TABLE	tablet	tableau	tipple	topple	topless
	tupelo	two-ply	dapple	deplore	diploma	diplomat
	double	duplicate	doublet	diabolic	audible	edible
	oddball	stable	steeple	stipulate		
196	DEBAUCH	tip-sheet	top-sheet	top-shelf	two-page	type-wash
	adoption	adaption	stoppage			
197	TOBACCO	tea-bag	tapping	topping	typing	topcoat
	topkick	toboggan	topic	typical	typograph	debacle
	depict	dipping	debug	autobiography	hatbox	stopping
198	STEPFATHER	two-by-four	tip-off	topflight	top-heavy	typify
	typefounder	deep-felt	deepfreeze	step-off	stupefy	stopover
199	TOP-BANANA	top-billing	top-boots	wet-pipe	white-poppy	white-paper
	depopulate	dope-peddler	dope-pusher	wastepaper	hot-pepper	

200	GNOSIS	necessity	nieces	noses	noises	incisor
	insist	incessant	unceasing	unseasoned	unsuspicious	ounces
	census		O		1	•
201	NOSTRIL	nest	nasty	nicety	nose-dive	anesthesia
	honest	incident	incite	inside	insight	instant
	instead	instinct	institute	instrument	unsatisfactory	unsteady
	unsuitable	gnostic	one-step	Wednesday	-	·
202	ENSIGN	newshen	nice-nelly	niacin	nosiness	nuisance
	ensnare	incinerator	innocent	insane	insensitive	insincere
	uneasiness	unseen	unsound	unison	unessential	1
203	INSEMINATION	newsman	noisemaker	news-media	nizam	noisome
	enzyme	hansom	inasmuch	insomnia	in-sum	unseemly
	unassuming	unsimilar				
204	CENSOR	newsreel	newsworthy	answer	encircle	incertitude
	insert	insurgent	insurmountable	insurrection	uncertain	unsworn
	sincere					
205	NACELLE	nozzle	nuzzle	nestle	nasal	noiseless
	nicely	enslave	insolence	insolvent	insulin	insular
	insult	ancillary	oneself	unselfish	wine-cellar	senseless
206	NOSE-JOB	news-agency	incision	ionization	unsociable	sensation
207	NOSE-cone	nosegay	encyclopedia	honeysuckle	inscription	insect
	insecure	insignificant	unicycle	unscrupulous	wainscot	
208	IONOSPHERE	news-vendor	henceforth	insufferable	insufficient	once-over
	uncivil	unsafe	unicef			
209	NEWSBOY	nosepiece	newsprint	no-soap	newspaper	inhospitable
	inseparable	insipid	inspect	inspiration	insuperable	insupportable
	unspent	sensible				ļ

210	NUDIST	notice	Nazi	nowadays	no-dice	antacid
	anticipate	antiseptic	enthusiasm	entice	indecent	indistinct
	induce	industry	hind-sight	handsaw	undeserved	undesirable
	undisturbed	•				
211	UNTIED	nitwit	nudity	night-duty	noted	needed
	antitrust	annotate	antidote	entity	entitle	handed
	haunted	handout	indeed	knighthood	undoubted	untidy
	united	undated	want-ad	O		,
212	ANTENNA	andante	Anthony	antonym	india-ink	antiknock
	handiness	entwine	inattentive	indent	Indian	intend
	intense	intonate	one-to-one	undeniable	unthankful	wanton
	sentence	sentinel	centennial			
213	ANTIMATTER	nutmeg	nightmare	anthem	anadem	anatomy
	anathema	antimissile	endemic	inadmissible	indemnify	intimacy
	intimidate	handyman	handmaiden	handmade	honeydew-melon	ointment
	on-time	onetime	anytime	untimely	windmill	
214	NUTTER	network	neither	Netherlands	nodder	neutral
	notary	nutriment	nitric	nitrate	nightrobe	another
	anterior	anthracite	anteroom	endear	endorse	endure
	enter	entertain	entrance	entry	handrail	handwriting
	hundred	hinterland	interact	interest	interior	intern
	international	interval	interview	introduce	under	Unitarian
	unit-rule	untiring	winter	wonder		
215	NOODLE	needle	needless	night-owl	new-deal	antelope
	anthill	endless	handle	indelicate	indolent	indulge
	intellect	intelligent	intolerable	know-it-all	until	windless
216	SANDWICH	nightshade	night-watch	notation	nutshell	annotation
	antechamber	indigenous	indigestion	intuition	untouchable	windowshad
	wantage	window-shopping				
217	NIGHTGOWN	nothing	nightcap	nautical	nightingale	nutcracker
	antagonist	antichrist	antics	antique	anything	ending
	handicraft	hunting	handcuff	handicap	inadequate	index
	indigo	indignant	induction	intact	integrity	intoxicated
	untangle	winding	wanting	syndicate		
218	NIGHTFALL	native	notification	endeavor	endive	handful
	antiphony	inadvisable	indifferent	individual	indefinite	undefined
	undeveloped	undefeated	scientific			
219	NOTEBOOK	notable	night-pay	antibiotics	antibody	antipasto
	antipathy	antipode	antipope	handbag	handbilĺ	handbook
	handball	inaudible	independent	inedible	knee-deep	knotty-pine
	windpipe	sandbox	sound-box		•	, 1

220	NONCE	nonsense	nonuse	nainsook	ananas	announce
	annoyance	enhance	onions	onionskin	unanswered	
221	UNKNIT	noontime	ninth	nineteen	ninety	nondenomina
	nontechnical	anoint	innuendo	know-nothing	unintelligible	unintentional
	unwanted	union-dues			C	
222	NONUNION	ninon	no-nonsense	nonnegotiable	nonentity	non-owner
	unknown	unannounced			-	
223	NOON-MEAL	ninnyhammer	nonemotional	nonmetal	nonmember	nonmedical
	nonmilitary	nonemergency	anonymous	inanimate	unanimous	unanimated
	synonymous					
224	NUNNERY	nonracial	nonradical	onion-ring	union-organizer	unenrolled
	unhonored					
225	SON-IN-LAW	nonliquid	nonliterary	nonelect	nonallied	nonelastic
	unenlightened	unenlarged	unanalyzed	union-hall	union-labor	union-leader
226	UNION-JACK	nonchalant	nonjuror	nonage	knee-injury	uninjured
	uninsured	union-shop	uninitiated			
227	NONAGON	nincompoop	nannygoat	nankeen	non-com	nonconformis
	nonacceptance	nonactive	nonaggressive	nonequal	nonexclusive	unknowing
	unincorporated					
228	NINEVEH	nine-footer	nonviolence	nonfat	nonvoting	nonfeasance
	nonferrous	nonavailable	unenviable	unenforcible	uninventive	uninvited
	uninformed	union-official				
229	NINEPINS	nonabsorbent	nonbeliever	nonbreakable	nonpaying	nonpareil
	nonplus	nonpros	nonpartisan	nonoperative	nonprofessional	nonprofit
	nonpolitical	union-pay				

230	GNOMES	names	namesake	nemesis	numismatist	animosity
	inmost	enemies	unmistakable	unmask		-
231	NOMAD	named	new-math	name-dropper	animate	enmity
	inmate	pneumatic				
232	NEW-MOON	nominal	nominee	numbness	honeymoon	inhuman
	unmanly	unmannerly	unmentionable	unmindful	unwomanly	pneumonia
233	ANEMOMETER	name-maker	new-member	unmaimed	unmemorized	unmomentous
234	NIMROD	namer	numeral	numerology	newmarket	enamor
	enumerate	unmarred	unmarked	unmerciful	unmarried	un-American
235	ANIMAL	nameless	numbly	enamel	anomaly	pneumology
236	ANIMATION	unemotional	unimaginative	unmatched	unmeshed	
237	WINEMAKER	naming	anemic	inimical	unmake	
238	NYMPH	unemphatic	unmovable	nemophila	unmiffed	unmuffled
239	NAMEPLATE	nimble	number	unemployed	unimportant	unimpaired
	unimproved	unimpressive	unambiguous	unamiable	unhampered	snowmobile

24	0 NURSE	nursery	neurosis	nearsighted	honors	onerous
	owners	unrest	unhorse	sonorous	sunrise	
24	1 NARRATOR	neurotic	nard	north	inarticulate	inert
	inheritance	inroad	inward	onward	unearth	unhurt
	unredeemed	unworthy	unwritten			
24	2 NEURON	no-iron	no-run	nearness	narrowness	unearned
	unworn	unwarned	unwarranted			
24	3 NORMAN	norm	normal	near-miss	Norma	enormous
	narrow-minded	unarmed	innermost			
24	4 HONORARY	nearer	narrower	unrewarded		
24	5 NARWHAL	narrowly	nearly	New-World	enroll	gnarl
	knurl	one-reel	unrelenting	unreliable	unruly	unreal
	unroyal	snarl				
24	6 ENERGY	narration	nourishment	Norwegian	enrage	enrich
	inertia	onrush	ownership			
24	7 NARCOTICS	nark	Newark	New-York	anarchy	on-record
	honoring	unrecorded	unrequited	unerring	unrecoverable	
24	8 NIRVANA	nerve	no-refund	enervate	unravel	unrivaled
	unrefined	unruffled				
24	9 ENROBE	nearby	enrapt	enwrap	honorable	unrepentant
	unripe	unrippled	unwrap			

250	NELSON	nails	nihilist	annals	analyze	awnless
	enlist	in-laws	unlace	unless	unwholesome	
251	NEWLYWED	nailed	annihilate	annulled	enlighten	inalterable
	inlet	inhaled	unhealthy	unallowed	unallotted	unladylike
	unload	unlit	knelt			•
252	ENAMEL	nylon	nail	aniline	inland	on-line
	inalienable	-				
253	ANNULMENT	newly-made	unlimited	unilluminated	unlamented	
254	INHALER	nailer	enlargement	kneeler	unlearned	unalarmed
255	HONOLULU	nailless	nail-hole	nilly-willy	unloyal	
256	KNOWLEDGE	analgesic	analogy	ineligible	unlatch	unleash
257	KNEELING	nailing	no-luck	new-look	onlooker	unlike
	unlock	unlucky	unwelcome	unwilling	unallocated	unlooked-for
258	UNLOVED	nail-file	New-Left	nullify	analphabet	enliven
	in-love	on-leave	unlawful	unlive	-	
259	NAIL-POLISH	nail-biting	nail-up	nol-pros	analeptic	unhelpful
	unliable	inhalable	unallowable	unlabeled	unlabored	_

260	NATCHEZ	nauseous	niches	notches	nudges	hinges
	inches	injustice	unjust			
261	UNWASHED	nidget	notched	nudged	gnashed	enjoyed
	inched	one-shot	unshod	unshut	initiated	
262	ENGINE	nation	notion	ancient	enchant	engineer
	enjoin	ingenue	ingenious	injunction	knee-jointed	ungentle
	ungenerous	unchanged	unchained			
263	NOTCHMARK	enjoyment	inchmeal	unashamed		
264	KNEE-JERK	nature	notcher	nudger	ensure	enshrine
	injury	insurance	onager	on-shore	unshrinkable	unsure
	century					
265	ANGEL	ENCHILADA	initial	unchallenged	unchilled	unshielded
	unsheltered	unusual				
266	HINGE-JOINT	unjudged	un-Jewish			
267	GNASHING	nudging	enjoying	inject	unchecked	unshaken
	unshackle					
268	ANCHOVY	in-a-jiffy	unshaven	unshifted	unshuffled	unshoveled
	unchivalrous	unchafable				
269	HUNCHBACK	enjoyable	unshapely	unship	unchaperoned	unwashable
	wineshop					

270	inks	negus	next	nexus	knocks	annex
210	encase	inaccessible	inexcusable	inexpensive	inexperience	innocuous
	inquest	unaccustomed	unexpected	unexplored	unquestioned	Yankees
	snacks	unaccustomea	инехресией	инехрюгеи	anquestionea	Turinces
271	necktie	naked	negative	nocturnal	nugget	nectar
2/1	nicotine	anecdote	enact	inequitable	inquietude	inactive
	iniquity	honky-tonk	hunky-dory	knockout	uncut	ungodly
	uncaught	TIOTIKY-TOTIK	riuriky-dory	KHOCKOUT	uncut	ungoury
272	nickname	knickknack	noggin	knock-knee	encounter	henequen
212	inconceivable	incongruous	inconsiderate	inconsistent	inconsolable	inconvenience
	inconvertible	unacquainted	unconcerned	unkind	sunken	niconvenience
273	newcomer		encomium	encumber	enigma	oncompace
2/3	honeycomb	encamp income	incomparable			encompass incomplete
	incumbent	uncomfortable		incompatible unicum	incompetent	nicomplete
274			oncoming		unkempt	1
274	nacre	nagger	neckerchief	Negro	neck-rein	necrology
	Niagara	nicker	niggard	anchor	encore	encourage
	engrave	hunker	inaccurate	inaugural	incarnate	incorporate
	incorrect	increase	incur	inquire	knackwurst	knickerbockers
	knocker	ungraceful	unguarded	unicorn	winker	winegrower
275	nickel	necklace	neckline	neglect	negligee	niggle
	no-cal	nucleus	ankle	enclose	incalculable	incline
	include	inequality	inkling	inoculate	knuckle	unclaimed
	uncle	unequal	wine-cooler	wineglass		
276	negation	negotiate	nicotiana	noxious	anguish	anxious
	encage	engage	inaction	incautious	unction	
277	nagging	necking	nogging	honey-cake	inking	knocking
	ongoing	ungag	winking	sinking	synagogue	O
278	no-cavity	no-caf	encage	knock-free	knock-off	uncover
	unequivocal		O			
279	hanky-panky	incapable	innkeeper	incubate	inkpot	kneecap
	knockabout	uncouple	unequipped	unoccupied	1	1
		T	1 T T T	T		

280	naves	novice	nephews	nevus	envious	infest
	infuse	invest	investigate	invisible	invoice	knives
	knaves	unfasten				
281	naphtha	neophyte	nifty	no-fat	Nevada	inevitable
	infidel	invade	innovate	invidious	invite	unavoidable
	unfadable	unfit				
282	novena	newfound	no-fun	infant	infantry	infinite
	invent	inoffensive	invincible	uneven	uneventful	unfinished
	unfounded	unwoven				
283	navy-man	November	infamous	one-family	unfamiliar	
284	nefarious	nephritis	nevevvr	nouveau-riche	anniversary	enforce
	enfranchise	environ	infer	infirm	inform	infringe
	invariable	invert	knavery	unfair	unforeseen	unforgettable
	unfortunate	unfurnished	uniform	universe	university	unvaried
	unversed				-	
285	navel	naval	novel	anvil	envelope	infallible
	inflame	infield	inflate	inflict	influence	influenza
	inflow	invalid	invaluable	involuntary	involve	invulnerable
	unavailable	unfilled	unflattering	unfold	univalve	unveil
286	new-fashion	navy-ship	novation	envision	inefficient	infusion
	infatuate	innovation	invasion	knavish	knife-edge	unofficial
	unfashionable					
287	navigator	novocaine	ineffective	infect	invective	invigorate
	invoke	unaffected	Univac			-
288	navy-wife	any-five	in-view-of	knife-file	unfavorable	
289	navy-bean	navy-brass	enfeeble	enviable	unevaporated	unfabricated
	unifiable	•			-	

290	nabs	naps	nibs	nips	NBC	nubs
	knapsack	knobs	unbiased	unobserved	unobscured	unopposed
291	nobody	no-bid	nepotism	Neptune	anybody	inapt
	inept	inhabit	inhibit	input	knapweed	unapt
	unbutton	unobtrusive	unhoped	unpaid	unpatriotic	sauna-bath
292	nepenthe	Nippon	nubbin	henbane	inbound	kneepan
	one-by-one	unbeknownst	unbind	unbend	unpin	unopened
	snub-nosed					
293	napalm	niobium	honey-palm	one-upmanship	wine-palm	sunbeam
294	napper	neighbor	napery	newborn	inappreciable	inopportune
	inebriated	inborn	unbearable	unbroken	unburden	unparalleled
	unprepared	unpromising	unproved	unprovoked	unpure	
295	nibble	nipple	nebulous	niblick	nobleman	nubile
	Naples	Napoleon	Hannibal	Nobel	enable	inability
	inapplicable	unable	unbelief	unbolt	unbalanced	unpleasant
296	nuptials	honey-beige	one-page	inhibition	unabashed	snapshot
297	napkin	nipping	henpecked	knobkerrie	unbecoming	unpack
	Winnipeg	unbuckle				
298	napiform	unpaved	unbefitting	unbeveled	unbehaved	unhopeful
	unbaffled		_			
299	nabob	nip-up	unbiblical	unpayable	unpopular	unpublished

300	masseuse	mesas	masses	misses	misuse	mosses
	muses	Messias	Mississippi	Moses		
301	mast	master	masticate	misdeed	mist	mistake
	mister	mistral	mistrial	mistrust	moist	most
	must	moustache	mustard	muster	mystery	hamster
	homestead	homicide	home-study	Mae-West		
302	mason	messenger	mezzanine	misanthrope	misinterpret	misinformed
	misnomer	misunderstand	mizzen	muezzin	Amazon	Samson
303	museum	messmate	miasma	mesmerize	mismanagement	mismatch
	amazement	amusement				
304	masseur	miser	miserable	misery	misrule	miserere
	misericord	amuser	emissary	Missouri		
305	missal	missile	measles	mislay	misalliance	mausoleum
	miscellaneous	misology	Moselle	Moslem	muslin	muscle
	mussel	muzzle	himself	myself		
306	message	massage	mischance	mischief	misjudge	mischosen
	misogynist	moisture	musician			
307	mascot	mask	mascara	masculine	masquerade	massacre
	misconduct	misgivings	misgovern	misguided	misogamist	missing
	mosque	mosquito	muscular	music	musk	musket
	mosaic	homesick	amazing			
308	misfit	massive	misfire	missive	misfortune	misfeasance
	hemisphere	whomsoever	amusive			
309	mishap	misplay	misplace	misapply	misbehave	misbelief
	misprint	homo-sapiens	homespun	mass-produced		

310	maids	mats	mates	madhouse	matzo	meadows
	medicine	midsummer	medusa	midsemester	modes	modest
	moths	amidst	mudslinger	immodest		
311	method	motet	mediator	Methodist	matador	Mediterranean
	humidity	imitate	immediate			
312	madonna	maiden	mitten	madness	midnight	meatiness
	methane	median	matinee	mutiny	midwinter	mutton
	emptiness	hometown				
313	medium	madam	madman	mathematics	mad-money	mahatma
	meatman	hematoma	home-team	sometimes		
314	matron	material	maternal	matter	mattress	meter
	meteor	metropolis	moderate	modern	mother	motor
	mutter	Madeira	Mata-Hari	matrimony	humdrum	humidor
	cemetery	symmetry				
315	medal	meddle	medial	metal	mettle	middle
	middling	model	motel	module	mottled	muddled
	mutilate	mythology				
316	mod-show	mod-shop	mediation	amidships	midshipman	modish
	mutation	home-dish	imitation	_	_	
317	madcap	mating	matting	medical	medicare	mediocre
	meeting	meticulous	mitigate	modicum	mythical	mudguard
	humdinger	omitting	something		-	-
318	midwife	medieval	metaphysics	metaphor	midfield	motive
	modify	humidifier		_		
319	meatball	made-up	metabolic	mouthpiece	mutable	mudpie

320	manse	mayonnaise	manslaughter	mainsail	menace	mince
	minus	miniskirt	means	minister	minstrel	monastery
	monster	monsoon	municipal	amnesty	emancipate	immense
	ominous					
321	mint	maintain	Manhattan	manhood	mandate	mantle
	man-trap	maundy	meantime	man-eater	mend	mental
	mentor	mind	minute	Monday	monitor	monotonous
	month	mountain	mandolin	minidress	amend	amenity
	amount	emanate	humanity	immunity	womanhood	cement
322	minion	manana	manhandle	meningitis	Mennonite	manhunt
	mononuclear	mononucleosis	amanuensis	eminent	imminent	
323	monument	mainmast	man-made	manometer	manumit	minimum
	monomania	moneymaker	moneyman	ammonium	homonym	omnium
324	manor	manner	manure	miner	man-hour	mineral
	minor	minority	monarch	monaural	money-order	monorail
	Monroe	homeowner				
325	manhole	mainland	mainly	manly	manual	monolith
	moneylender	meanwhile	monologue	moonlight	Manila	Emmanuel
	hymnal	womanly				
326	manager	manger	mansion	mention	menagerie	miniature
	monition	moonshine	moonshell	moonship	moonshot	munch
	omniscience	ammunition				
327	maniac	mankind	manikin	manacle	manicure	meaning
	minicab	mining	mink	monk	monocle	monogram
	monkey	monogamist	moneygrubber	Munich	ammoniac	
328	manifest	manful	manifold	maneuver	manufacturer	menfolk
	money-flow	monophonic	moonfaced	moonfish	moon-flight	moon-flower
	moon-voyage	munificent	omnnificent	omnivorous		
329	man-	ape	manipulate	manpower	minable	moneybags
	money-belt	monoplane	monopoly	moonbeam	moon-blind	myna-bird
	amenable	hymenopteron	omnibus	omnipotent		

mammas	maims	mayhems	memos	memsahib	mimes
mimeses	mimosa	momus	mummies		
maimed	mammate	mammatocumulus	mammoth	mayhemmed	mimetic
Mohammedan	Muhammad	mummy-tomb	myomata	homemade	imamate
ohmmeter					
mammon	memento	Miamian	moment	momentum	semimonthly
mimamsa	mamamu	mamma-mia	semimemorable		
memorial	memory	memoir	memorandum	maimer	mimer
mummer	mammer	mammary	homomorphy		
mammal	my-mail	mamluk	mamelon	hamamelis	mammillary
home-mission	home-match	mumchance	mummichog		
mammock	mimic	mimeograph	maiming	mumming	mummy-case
homemaker			_		-
Memphis	home-movie	humhum-fabric	mummify	mammiform	
		•	-		•
mamba	mambo	member	mumps	mumble	membrane
	mimeses maimed Mohammedan ohmmeter mammon mimamsa memorial mummer mammal home-mission mammock homemaker Memphis	mimeses mimosa maimed mammate Mohammedan ohmmeter mammon memento mimamsa mamamu memorial memory mummer mammer mammal my-mail home-mission home-match mammock mimic homemaker Memphis home-movie	mimesesmimosamomusmaimedmammatemammatocumulusMohammedan ohmmeterMuhammadmummy-tombmammonmementoMiamianmimamsamamamumamma-miamemorialmemorymemoirmummermammermammarymammalmy-mailmamlukhome-missionhome-matchmumchancemammockmimicmimeographhomemakerhome-moviehumhum-fabric	mimesesmimosamomusmummiesmaimedmammatemammatocumulusmammothMohammedan ohmmeterMuhammadmummy-tombmyomatamammonmementoMiamianmomentmimamsamamamumamma-miasemimemorablememorialmemorymemoirmemorandummummermammaryhomomorphymammalmy-mailmamlukmamelonhome-missionhome-matchmumchancemummichogmammockmimicmimeographmaiminghomemakerhome-moviehumhum-fabricmummify	mimesesmimosamomusmummiesmaimedmammatemammatocumulusmammothmayhemmedMohammedan ohmmeterMuhammadmummy-tombmyomatahomemademammonmementoMiamianmomentmomentummimamsamamamumamma-miasemimemorablememorialmemorymemoirmemorandummaimermummermammaryhomomorphymammalmy-mailmamlukmamelonhamamelishome-missionhome-matchmumchancemummichogmammockmimicmimeographmaimingmumminghomemakerhome-moviehumhum-fabricmummifymammiform

340	mercenary	mercer	mercy	morass	morose	morsel
210	Mars	Morse	amerce	amorous	humorous	immerse
341	mart	maraud	maritime	married	marten	martini
	martyr	meridian	merit	mirth	mortal	murder
	myrtle	myriad	hammer-throw	homeward	smart	
342	marine	mariner	Marianne	marihuana	maroon	marionette
	morning	mourner	maharani	moron	home-run	
343	marmalade	marmoset	mermaid	marmot	marimba	merriment
	merrymakers	Mormon	murmur	myriameter	homeroom	
344	mirror	merrier	moorier	marara	hammerer	
345	marl	moral	morale	mural	marlin	merely
	merrily	amarillo	hammerlock	home-rule	humorless	emerald
	immoral					
346	march	Martian	maharaja	marchpane	margin	marsh
	margarine	marchioness	marriage	meerschaum	merger	merchant
	marshal	merchandise	emerge	emergency	mirage	hemorrhage
347	mark	market	marigold	maracas	marksman	marquess
	mercantile	miracle	mercury	morgue	marque	America
	homework	smirk				
348	marrowfat	marvel	moreover	MIRV	morphine	murphy-bed
	Morpheus	Moravia				
349	marble	marabou	mariposa	marplot	marrowbone	morbid
	moribund	hammer-beam	hammer-blow			

350	MALICE	homeless	maelstrom	mills	miles	millisecond
	aimless	mails	molest	seamless		
351	MALT	melt	mold	omelet	smelt	mulatto
	assimilate	emulate	hamlet	homiletics	humility	malady
	mallet	meld	melodrama	melody	milady	mild
	military	millet	muleteer	multiple	multitude	simulate
	simultaneous	smolder	umlaut			
352	MELON	Himalayans	hemline	semolina	milliner	homeland
	malign	melancholy	millennial	millennium	million	
353	mailman	maim	melamine	millimeter	millman	muleman
	mule-mark	mealymouthed	emolument	small-minded		
354	molar	miler	malaria	miller	milliard	mealworm
	mailer	milord	millwright	ameliorate	similar	
355	may-lily	molehill	milliliter	mill-wheel	melilot	
356	militia	malicious	mileage	maladjusted	millage	mulch
	mulish	emulsion	humiliation	homology		
357	malcontent	mailing	malignant	malkin	milk	milligram
	mollycoddle	molecule	Malaga	amalgamate	hemlock	homologous
358	mellophone	malevolent	malefactor	malfeasance	malformed	malfunction
	mellifluous	milee-feuille	millefleurs	millfeed	millefiore	mule-foot
	mollify	homelife				
359	mailbag	mail-boat	mail-pouch	mailbox	malleable	melba
	malapert	malaprop	mulberry	muleback	smallpox	

360	magistrate	majesty	majuscule	matches	images	
361	machete	matchwood	mashed	midget	meshed	emaciate
362	machine	mission	motion	magenta	mushiness	emotion
	imagination	homogenous	omission			
363	matchmaker	matchmark	mishmash	mushmelon	MGM	
364	major	majority	mature	measure	majorette	masher
	moocher	mushroom	meshwork	homager	imagery	
365	moocher majolica	mushroom Magellan	meshwork matchless	homager matchlock	imagery matchholder	mutual
365 366						mutual
	majolica	Magellan				mutual
366	majolica magician	Magellan muchacha	matchless	matchlock	matchholder	mutual
366 367	majolica magician magic	Magellan muchacha mashing	matchless meshing	matchlock	matchholder	mutual mushball

370	macassar	maccus	magazine	maxim	megacycle	mikes
	mix	mucus	mugs	amongst	hammocks	
371	maquette	maggot	macadam	megaton	makedo	mikado
	mocked	mugged				
372	magnet	magnate	mackintosh	magnesium	magnanimous	magnificent
	magnitude	mahogany	magnolia	mechanic	mackinaw	
373	magma	mugwump	homecoming	home-game	homogamy	
374	macaroon	mackerel	maker	make-work	meager	microbe
	microscope	mockery	mongrel	muckraker	mugger	emigrant
	immigrant	homecraft	homegrown			
375	mackle	mangle	mingle	Mogul	Michael	meekly
	amical	immaculate	semigloss	smuggle		
376	makeshift	mug-shot	mawkish			
377	making	mocking	mugging	mucking	smacking	smoking
378	megaphone	make-off	makefast	make-over	Machiavellian	mugful
379	magpie	make-believe	makeup	Maccabee	megapolis	mock-up
	hummingbird	Yom-Kippur	amicable			_

380	mavis	movies	moves	muffs	Mephisto	emphasis
	emphysema	ham-fisted	home	office		
381	moviedom	moved	miffed	mufti	amphetamine	amphitheater
	emphatic					
382	muffin	home	phone	homophony	home-fun	semifinal
383	moviemaker	moveman	movement	amphima-cer	amphimixis	
384	Mayfair	mover	maverick	amphora	hamfare	whomever
	samovar	mavourneen	myophore	semaphore		
385	mayflower	mayfly	movieland	moveless	muffler	hemophiliac
	homefelt					_
386	mayfish	movie-show	home-voyage	semiofficial		
387	maffick	moviegoer	moving	movie-camera	home-viewing	
388	movie-fan	Mafia-family	move-off	move-over		
389	movable	movie-plot	move-up	amphibious	amphipod	amphibole

390	maps	mobster	ambassador	ambuscade	embassy	embezzle
	emboss	embosom	home-base	impasse	impassive	impose
	impossible	impostor	symposium			
391	moppet	ambidextrous	amputate	embitter	embody	embed
	empathy	impediment	impudent	impute	impetus	homebody
	ombudsman	wombat	symptom	sympathy	somebody	
392	ambient	embankment	impanel	impend	impenetrable	impenitent
	impinge	impound	impugn	impunity	homebound	sampan
393	map-maker	embalm	empyema	wampum		
394	mapper	mayberry	moper	amber	embark	embarrass
	embrace	ember	embroider	embroil	empire	empower
	emperor	empress	hamburger	hamper	homburg	impair
	impart	imperative	imperfect	imperial	impertinent	import
	impress	imprint	imprison	improper	improve	impure
	umbrella	sombrero				
395	maple	mobility	maypole	ambulance	amiable	ample
	amplify	ampul	embellish	emblem	employ	home-plate
	humble	impel	implement	implicate	implore	imply
	impolite	impala	impulse	umbilical	sample	simple
	semblance	symbol	assembly			
396	ambush	ambition	impatient	impassionate	impetuous	impish
	impeach					
397	mobcap	moping	mobbing	mopping	myopic	ambiguous
	humbug	hymnbook	impact			
398	ambivalent	ambivert	amebiform	impavid	impoverished	swamp-fever
399	maypop	mopboard	mop-up	humpback	imbibe	impubic

100				•		1
400	racist	recess	resist	raises	roses	horses
	irresistible	warehouses				
401	receipt	recital	residual	rest	restore	restrain
	restrict	roast	roost	roster	rust	rustic
	airstrip	arrest	erst	hirsute	wrest	wrist
	worst	wrest				
402	raisin	reason	resin	recent	resent	rescind
	resign	resound	arsenal	arson	arsenic	horizon
	hoarseness	orison	war-zone	Arizona		
403	reassemble	raceme	razzmatazz	resemble	resume	heroism
	horseman	oarsman	warehouseman	wearisome		
404	racehorse	racer	razor	reassert	research	reserve
	resort	resource	eraser	horse-race	horseradish	
405	razzle	resale	resolute	resolve	result	roseleaf
	roselike	rosella	rustle	herself	ourselves	yourself
	wrestle					-
406	recession	rescission	rose-cheeked	rose-show	horseshoe	
407	rascal	racecourse	rescue	racing	rising	risk
	rose-cut	Rosicrucian	rusk	rye-whiskey	warehousing	arousing
	harassing				_	
408	receiver	rosefish	horsefece	horsefeathers	horsefish	horsefly
	horseflesh					•
409	rasp	raspberry	receptacle	reception	recipe	recipient
	reciprocal	respect	respiration	respite	resplendent	respond
	responsible	airspace	horseback	horsepower	horsewhip	irascible
	1	1			1	

410	ARTIST	ARTISAN	yardstick	roadster	Rhodes	roads
110	radius	raticide	reduce	righteous	ritzy	arduous
411	RAT-A-TAT	REDHEAD	redwood	hardtop	erudite	redoubt
	airtight	aridity	certitude	hardhead	hardwood	heredity
	irritate	radiate	red-hot	redoubtable	redtop	rotate
	rutted				1	
412	RATTAN	RED-NECK	red-nose	redness	retinue	warden
	ardent	earthen	harden	hearten	ordain	radiant
	readiness	retain	roadnet	rotten	routine	ruddiness
	rudeness					
413	RADIUM	RADIOMAN	yardman	radome	roadman	rhythm
	ready-made	redeem	rudiments			,
414	RADAR	RIOTER	artery	air-to-air	aerodrome	hoarder
	Rotarian	rather	reader	raider	redress	reiterate
	retard	retire	retort	retrace	retract	retreat
	retrieve	return	rider	rotary	rudder	ardor
	hairdresser	orator	order	wardrobe	writer	
415	RADIAL	HURDLE	retail	redolent	rattle	redial
	airedale	artless	earthling	hardly	heartily	heartland
	heartless	ordeal	ratline	readily	redleg	retaliate
	retell	riddle	ruthless	whortleberry		
416	RADISH	RADIATION	artichoke	yardage	road-show	irritation
	retouch	ruttish	erudition	hardship	heritage	hard-shell
417	RADIOACTIVE	RED-CARPET	earthquake	radical	redcoat	article
	articulate	erratic	heartache	radiocast	radiograph	reading
	red-oak	redact	redcap	ridicule	riding	surtax
	wording	writing				
418	RADIO WAVE	HORS-D-OEUVRE	radiophoto	ratfish	ratify	redfin
	reedfish	artful	artifact	artificial	heartfelt	hurtful
	write-off	certify				
419	HEARTBREAK	REDBREAST	heartbeat	rutabaga	yardbird	wiretap
	hartebeest	air-tube	hardpan	irritable	ratable	rataplan
	ratproof	redback	redberry	redouble		

420	rains	rancid	ransack	ransom	reigns	reinsert
	reinstate	renews	rhinoceros	rinse	ruins	earnest
	harness	irons	ironsides	weariness	urns	Uranus
	soreness					
421	rand	rant	random	rainy-day	rain-out	raindrop
	reenter	reindeer	render	rent	reunite	rind
	rondeau	rondo	round	rundown	runt	aeronaut
	around	errand	errant	hairnet	hornet	orient
	ornate	warrant	worn-out	surrender	surround	
422	rayonnant	renounce	renown	reunion	run-in	ironhanded
423	rainmaker	reanimate	rename	renominate	renumerate	ironmonger
	ornament	uranium	surname			
424	rainwear	renewer	ruiner	runner	earner	ironer
	iron-ore	ironworks	ornery	warner		
425	rainless	renewal	run-well	one-reel	unreal	
426	ranch	range	rainwash	rain-check	reenjoy	reinsurance
	renege	arrange	orange	wrench		
427	rank	rancor	raining	rink	running	raincoat
	earnings	ironclad	ironic	ironing	warning	wrinkle
428	rainfall	rainfrog	rainful	aeronaval	reinforce	renovate
	reinvest	run-off	Herrenvolk			
429	rainbow	rainpool	rainproof	runabout	runup	hornbill
	hornblende	hornbook	hornpipe		•	
			* *			

430	rams	reams	rooms	remiss	rhymes	arms
	armies	armistice	airmass	harems	surmise	
431	remedy	remit	remodel	remote	rheumatism	roomette
	armada	aromatic	armed	eremite	hermit	warmth
432	raiment	remain	remind	reminisce	remnant	remonstrate
	remunerate	Roman	romantic	Romania	ruminant	airman
	Armenian	ermine	harmony	hormone	ceremony	sermon
	surmount					
433	remember	rememorate	roommate	rum-mill	armament	
434	rammer	ramrod	remark	remorse	rhymer	roamer
	roomer	rumor	rumrunner	armor	armory	warmer
435	remilitarize	rimland	ramulous	airmail	air-mile	armless
	armhole	armlet	harmless	ormolu	warmly	armload
	armlock					
436	ramjet	ramshackle	rematch	remission	rummage	armchair
437	remake	rhyming	roaming	rooming	Armageddon	armguard
	arming	harming	warmonger			
438	ramify	reemphasize	removal	roomful	armful	earmuff
	harmful					
439	ramp	rampart	ramble	rampage	reemploy	Rembrandt
	reimburse	rhombus	rhumba	romp	rumble	rumpus
	rambunctious	rambutan	armpit	warm-up		

440	rehearsal	roars	arrears	errors	horrors	warhorse
	warriors					
441	rarity	reared	reread	reredos	reorder	reroute
	reward	reword	rewrite	roared	Ararat	arrowroot
442	rear-window	rearrange	rerun	rewarned	reworn	rareness
	war-horn	warworn				
443	rearmament	reremouse	rearmost	rewam	earworm	wireworm
444	rare-earth	rarer	rareripe	rere-arch	rearhorse	rearward
	rewirer	roarer				
445	rarely	rear-alley	reroll	rerail	rural	war-rally
446	raree-show	rear-echelon	rerush	reration	heroworship	arrearage
447	reargue	rear-guard	reorganize	rearing	roaring	rewiring
	rework	rehearing	earring	hierarchy		
448	rara-avis	rear-fanged	rearview	rarefy	errorfree	
449	rarebit	re-orbit	roorback	wire-rope		

450	rails	realize	release	realest	realist	airless
	hairless	orioles	wireless			
451	reality	realty	reallot	relative	rolled	roulade
	roulette	royalty	air-letter	air-light	harlot	herald
	hurled	world				
452	realign	relent	reliance	relinquish	reloan	roll-on
	airland	airline	earliness	Ireland	orlon	whirlwind
	sirloin					
453	railman	realm	relumine	rollman	rollmops	Harlem
	heirloom					
454	railroad	raillery	rallier	reeler	reelrall	roller
	ruler					
455	railwayless	roleless	royal-law	royal-yellow	ruleless	
456	railage	reallege	reeligible	relation	religion	relish
	earlship	horology				
457	railing	reelect	relax	relegate	relic	reluctant
	relocate	roll-call	rollicking	rolling	hair-lock	hireling
	harlequin	oarlock	warlike	whirligig	yearling	yearlong
458	railfan	relevant	relief	relieve	relive	roll-off
	airlift	werewolf				
459	railbird	reliable	relapse	rollback	roly-poly	earlap
	earlobe	harelip	hurly-burly	orlop	whirlpool	

460	rages	ratios	regisseur	register	rejoice	riches
	ridges	righteous	rushes	arches	•	
461	ratchet	recheat	reshod	rigid	reached	rushed
	archdiocese	arched	earshot	urged	archduke	wretched
	airsheet					
462	reagent	ration	regent	regenerate	region	rejoin
	richness	Russian	archenemy	Argentina	erosion	Eurasian
	origin	urchin	urgency	surgeon	assertion	
463	regime	regiment	Rushmore	hair-shampoo	Irishman	
464	rasher	richer	reassure	Roger	rusher	rush-hour
	archer	harsher	erasure	orchard	urger	surcharge
	searcher	surgery				
465	racial	Richelieu	richly	ritual	rushlight	archlute
	ear-shell	harshly	searchlight			
466	rejudge	Rosh-Hashanah	rush-job	arch-joint		
467	raging	reaching	recheck	reject	reshake	rushing
	air-check	urging				
468	rechauffe	reshave	reshuffle	rejuvenate	rush-off	rye-chaff
	arch-foe	arch-wife	archfiend	Irish-ivy		
469	reshape	reship	airship	archbishop	hairsheep	warship
	worship					

470	racks	rags	recast	request	raucous	rex
	requisite	ruckus	arcs	heroics	irksome	orchestra
	orgasm	works	wrecks	circus	sarcasm	
471	racket	ragged	ragtime	react	rectangle	rector
	requite	rickets	rocket	regatta	rigadoon	rugged
	arcade	arctic	architect	erect	irrigate	haircut
	circuit					
472	raccoon	reckon	reconcile	reconsider	reconstruct	regain
	rekindle	air-gun	arcane	archangel	arrogance	hearken
	hurricane	organ	Oregon			
473	ragman	ragamuffin	recommend	recompense	recommit	recumbent
	requiem	rigmarole	argument	origami	war-game	workman
	circumstance					
474	raker	record	recourse	recreation	recruit	recur
	regard	regret	require	rigor	rocker	aircraft
	aircrew	hara-kiri	war-cry	warcraft	worker	
475	raglan	rakehell	recall	reckless	reclaim	recline
	recoil	recollect	regular	regalia	recluse	row-galley
	ringleader	air-cooled	argali	argyle	hiring-hall	hourglass
	wriggler	oracle	circle			
476	reaction	rickshaw	ricochet	roguish	air-coach	air-gauge
	erection	irrigation	workshop	wreckage		
477	raking	recognize	recook	rigging	ringing	rocking
	rococo	archaic	arguing	working		
478	recover	rockfall	rock-fill	Roquefort	rockfish	archives
479	recap	recapitulation	recuperate	rockabye	rockberry	rockbird
	rock-bottom	rugby	archipelago	ark-boat	herringbone	arquebus

480	refuse	reviews	revise	revisit	airwaves	harvest
	orifice	Orpheus	wharves	war-office	service	surface
481	raft	refit	rift	rivet	roofed	rooftop
	roughdry	arrived	hereafter	horrified	war-veteran	servitude
482	raven	ravine	refine	revenge	revenue	roughneck
	roughness	ruffian	earphone	orphan	wharfinger	servant
483	revamp	refumble	Orpheum	war-fame	wharfmaster	
484	reefer	refer	reform	referee	referendum	reverend
	refrain	refresh	refrigerator	refurbished	reverse	revert
	river	rover	roughrider	wherever	surveyor	
485	raffle	ravioli	refill	reflect	reflux	revalue
	reveal	revel	revolt	revolve	revolution	revolver
	revulsion	rifle	rival	rivulet	rueful	ruffle
	airfield	airflow	arrival	oriflamme	servile	
486	ravage	ravish	refashion	refuge	revision	roughage
	roughshod	oarfish	wharfage			
487	revocation	raving	roofing	horrifying	irrevocable	
488	revival	rough-fish	rough-footed	wharf-fish	survivor	
489	rev-up	reviewable	refabricate	roofable	rough-up	wharf-boat

490	rabies	repast	repose	repost	rebus	robust
3	rhapsody	robes	ropes	airbase	airbus	Arabs
	arabesque	hairpiece	harps	herbs	surpass	_
491	rabbit	rabid	rapid	rapt	rebate	repeat
	rebuttal	reptile	repute	robot	rowboat	rubdown
	rubytail	wrapped	arbiter	orbit	whereabouts	acerbity
492	rapine	rebound	reopen	repent	ribbon	ripen
	robin	ruby-wine	hairpin	harpoon	European	urban
	whereupon	warbonnet	serpent			
493	repayment	air-boom	robomb	europium	herbwoman	war-poem
494	rapier	rapper	rapport	rapparee	reappear	reaper
	repair	report	repartee	reprehend	represent	repress
	reprieve	reprimand	reproach	reprobate	reproof	ribroast
	rhubarb	robber	rob-Toy	roper	rubber	airport
	arbor	harbor	harebrained	wrapper	surprise	Cerberus
	cerebrum					
495		mara a ail	rebel	rebuild	repeal	repel
4)3	rabble	rape-oil				
475	replace	replant	replenish	replete	replica	reply
400	replace repulse					
	replace repulse horrible	replant ripple	replenish rubble	replete	replica rubella	reply airplane
496	replace repulse horrible rapacious	replant ripple rapture	replenish rubble rubbish	replete	replica	reply
496	replace repulse horrible rapacious eruption	replant ripple rapture harp-shell	replenish rubble rubbish herbage	replete ruble rupture	replica rubella repatch	reply airplane arpeggio
	replace repulse horrible rapacious eruption rebuke	replant ripple rapture harp-shell repugnance	replenish rubble rubbish herbage repack	replete ruble rupture roebuck	replica rubella repatch	reply airplane arpeggio rubicon
496	replace repulse horrible rapacious eruption rebuke rubicund	replant ripple rapture harp-shell	replenish rubble rubbish herbage repack Areopagus	replete ruble rupture roebuck harbinger	replica rubella repatch rope-key wrapping	reply airplane arpeggio rubicon yearbook
496	replace repulse horrible rapacious eruption rebuke rubicund rebuff	replant ripple rapture harp-shell repugnance	replenish rubble rubbish herbage repack	replete ruble rupture roebuck	replica rubella repatch	reply airplane arpeggio rubicon
496 497 498	replace repulse horrible rapacious eruption rebuke rubicund rebuff herbivore	replant ripple rapture harp-shell repugnance Arabic repave	replenish rubble rubbish herbage repack Areopagus riboflavin	replete ruble rupture roebuck harbinger	replica rubella repatch rope-key wrapping rubify	reply airplane arpeggio rubicon yearbook rub-off
496	replace repulse horrible rapacious eruption rebuke rubicund rebuff	replant ripple rapture harp-shell repugnance Arabic	replenish rubble rubbish herbage repack Areopagus	replete ruble rupture roebuck harbinger	replica rubella repatch rope-key wrapping	reply airplane arpeggio rubicon yearbook

500	lasses	lassoes	leases	lazy-Susan	losses	Louis-Seize
	alehouses	aliases	Ulysses	Alsace		
501	last	lassitude	lawsuit	least	lest	list
	lust	lucid	luster	lowest	LSD	all-set
	all-star	elastic	elucidate	holster	illustrate	ulster
	whilst	celestial	solicit			
502	laziness	lessen	lesson	license	liaison	listen
	loosen	lozenge	hallucination	halcyon	Wilson	
503	lissome	lyceum	wholesome	Elysium		
504	lacerate	laser	lessor	lizard	loser	also-ran
	elsewhere	illusory	ulcer			
505	lazily	leasehold	low-slung	luzula	oil-seal	wholesale
	whole-souled					
506	loose-jointed	Alsatian	oil-switch	wall-switch	yellow-sage	yellow-sedge
507	lacing	leasing	losing	Alaska	oilskin	woolsack
508	lascivious	laissez-faire	Lucifer	elusive	illusive	
509	lazybones	lesbian	lisp	low-spirited	wellspring	well-spoken
	allspice		_	-		-

510	lattice loudspeaker waltz	lettuce Lao-Tse	ladies eldest	lads halitosis	lighthouse oldest	lotus holidays
511	latitude altitude wilted	lighted eluded yuletide	loaded halted solidity	la-di-da holdout solitude	low-tide old-time	allotted well-to-do
512	Latin lighten	latent lightning	laydown lowdown	lieutenant oldness	litany old-wine	leaden well-done
513	lithium altimeter seldom	leitmotif allotment	loudmouth illtimed	light-meter ultimate	light-minded yuletime	litmus well-timed
514	ladder letter looter alderman holy-water	lateral leotard lothario altar older	lather literal lottery alter ulterior	latter literature louder elder yielder	leader litter Luther halter	leather loiter altruism holder
515	ladle little	lately wall-to-wall	ladylike wildlife	ladylove wildly	lethal yellowtail	leadless
516	ladyship old-shoe	late-show salutation	latish	Low-Dutch	old-age	oldish
517	leading altogether sliding	latecomer Eolithic	litigant holding	lithograph welding	loading wildcat	ludicrous yielding
518	ladyfinger healthful well-advised	leadoff holdover wildfire	lightface illadvised wildfowl	lightfast oldfangled	lightfingered old-fashioned	light-foot oldwife
519	ladybird let-up	ladybug hilltop	laudable holdback	leadback hold-up	lead-up wildebeest	lead-pipe

520	lance	lens	lioness	linseed	lonesome	lunacy
	lyonnaise	alliance	aliens	allowance	holiness	illness
	silence					
521	land	lend	lent	lint	lintel	lean-to
	laundry	lentil	lindy	linden	lunatic	London
	alienate	island	eland	Holland	oleander	walnut
	wall-unit	well-knit	cylinder	assailant		
522	lenient	Lenin	leonine	linen	linin	alanine
	all-in-one	hole-in-one	illanun	Illinoian	wellknown	
523	lineament	lineman	liniment	Holy-Name	alignment	allonym
	illinium					
524	tanner	lanyard	leaner	liner	linear	lionhearted
	loaner	loanword	loner	lunar	Leonardo	alienor
525	lanolin	lienal	lineal	line-haul	Iinoleate	linoleum
	lonely	lunule	willy-nilly			
526	launch	lounge	lineage	longitude	lingerie	lunation
	luncheon	lunge	lynch	alienation	elench	elenge
	ill-natured					
527	lanky	lining	link	links	linocut	leaning
	loaning	loincloth	low-necked	lunkhead	lynx	all-inclusive
528	lanuvium	lenify	line-firing	line-off	lion-fish	ill-informed
	well-enough	well-informed				
529	lenape	unable	linebacker	line-up	linebred	linebreed
	loanable	loanblend	alienable	-		

530	lambs	limbs	limousine	looms	low-mass	almost
	elms	Hallowmas	slums			
531	lamdan	limit	a-la-mode	almighty	elm-tea	helmet
	ill-mated	well-made				
532	lawman	layman	lameness	lament	lemon	limen
	limnologist	luminary	low-minded	low-man	ailment	aliment
	alimony	almanac	aluminum	alumnus	element	eliminate
	illuminate	oilman	well-mannered	well-meaning	whaleman	
533	lamium	limeman	alma-mater	well-memorized		
534	lemur	limerick	all-American	allomorph	Hail-Mary	hallmark
	halomorphic	oleomargarine				
535	lamella	lamellate	limelight	lime-oil	lowmelting	all-male
	elemol	elm-hill	oil-mill			
536	limation	lime-ash	lime-juicer	Limoges	limewash	lomatia
	ill-matched	well-matched				
537	lawmaker	lambkill	lambkin	limekiln	lummox	looming
	almicore	almucantar	whelming	salmagundi		
538	loomfixer	lymph	lymphad	well-emphasized	-	-
539	lamp	lamprey	limber	limp	limpid	limbus
	limbo	Limburger	lumbago	lumber	lump	Alhambra
	Olympics	slumber				

540	larceny	liars	lawyers	lower-house	walrus	wheelhorse
	hilarious		•			
541	laird	lard	lariat	leeward	low-rate	Lord
	lured	laureate	lurid	alert	all-right	already
	hilarity	well-read	whole-hearted	celerity	salaried	
542	laryngitis	laurin	layer-on	loran	learned	Lorraine
	aileron	all-or-none	hollow-horn	well-run	well-earned	willow-wren
543	larmier	larryman	lorimer	lormery	lorum	lowermost
	lyreman	alarm	allurement	eelworm	willowworm	
544	lowerer	lyrurus	allurer	hollerer		
545	laurel	lauryl	lawyerlike	Lorelei	lorilet	Holy-Roller
546	large	largess	largeness	laureation	layerage	lurch
	allergy	alurgite	oleraceous			
547	lark	largo	layering	lorica	lorikeet	lowercase
	lower-class	lurk	lyric	alluring	oil-ring	oil-rock
548	larva	larvule	low-roof	lyreflower	lyriform	
549	larb	larboard	larrup	layer-up	low-warp	lowerable
	lyre-back	lyrebird	_	· •	-	

550	lawless	lilies	lowliest	lulls	lulus	Allhallows
	hula-hulas	oil-wells				
551	lilt	lilied	lily-white	low-yield	loyalty	lulled
	well-heeled	well-willed	ululate	-		
552	lillianite	lowland	lowliness	ululant	whale-line	Sally-Lunn
553	law-lamb	lilium	lolium	allelomorph		
554	lowlier	Lollard	well-larded	well-learned	cellular	
555	liliales	lilylike	lily-livered	lily-low	letwel	lowlily
556	lallation	liliaceous	ululation	well-latched		
557	lilac	lolling	low-lying	lulling	ill-luck	owllike
	yellowlegs	Yule-log	soliloquy			
558	low-level	lowlife	low-lived	well-loved	yellow-livered	all-alive
559	lalapalooza	lilliputian	lollipop	lullaby	-	

560	latches	lodges	loges	loggias	legislator	logistics
	luscious	elegies	eulogist	eyelashes	zoologist	
561	latchet	elegit	legitimate	lodged	alleged	woolshed
562	legend	legion	lesion	lotion	allusion	elation
	elision	elysian	halogen	illusion	solution	
563	lodgement	hall-chime	Welshman	eulogium		
564	lasher	ledger	lecher	leisure	lodger	lusher
	lushier	Algeria	alleger	well-wisher	wheelchair	
565	lushier lushly	Algeria hellishly	alleger oil-shale	well-wisher owlishly	wheelchair wellchilled	slouchily
565 566						slouchily
	lushly	hellishly	oil-shale	owlishly		slouchily yellow-jack
566	lushly ill-judged	hellishly all-Jewish	oil-shale logician	owlishly well-judged	wellchilled	, , , , , , , , , , , , , , , , , , ,
566	lushly ill-judged latchkey	hellishly all-Jewish	oil-shale logician	owlishly well-judged	wellchilled	, , , , , , , , , , , , , , , , , , ,

570	laxative	laxity	legacy	legs	locks	looks
	locust	low-cost	log-house	likewise	lungs	elks
	elixir	holocaust			O	
571	languid	liquid	legate	length	locate	locked
	locket	lockout	lookout	low-cut	alley-cat	alligator
	elector	electricity	hellcat	select		
572	laconic	lagoon	Lackawanna	likeness	longhand	well-conditioned
	ill-conditioned	Allegheny	elegance	eloquence	oilcan	silken
573	lagomorph	legman	legumes	leukemia	ligament	locomotive
	alchemy	algometer	illcome	ill-kempt	welcome	
574	lacquer	laggard	languor	legroom	linger	liquor
	logger	locker	longer	longhair	looker	lucrative
	lucre	lukewarm	lugger	allegorical	licker	slugger
	well-groomed	well-grown				
575	laical	legal	likely	local	locule	long-lived
	low-calorie	low-class	luckily	alcohol	alkali	illegal
	oilcloth	willingly				
576	language	languish	legation	leakage	lockjaw	loquacious
	lockage	logjam	luggage	allegation	allocution	allocation
	elocution	election	sluggish			
577	lagging	leggings	licking	liking	longing	looking
	locking	lugging	oil-cake			
578	lakefront	lawgiver	liquefy	locofoco	alcove	ill-given
	well-covered					
E70	laaban	leg-break	leg-pull	leucoplast	likable	lockup
579	legbar	ieg-bieak	lugubrious	helicopter	allocable	юскир

580	laughs	layoffs	leaves	levies	lives	lifesaver
	life-span	life-size	loaves	love-sick	lovesome	elves
	olives	slaves				
581	laughter	lavatory	lafayette	left	lifetime	lift
	livid	loft	loved	alleviate	aloft	elevate
	elevator	ill-fated	slaved	solved	well-fed	
582	lavender	liven	live-in	live-one	love-in	alphanumeric
	elephant	eleven	elfin	well-founded	slovenly	solvent
583	lavement	leaf-mining	lifeman	lovemaking	alluvium	ill-fame
	self-made					
584	laugher	layover	lever	lifer	liver	livewire
	livery	loafer	lover	love-arrow	louver	alfresco
	hellfire	illfare	welfare	well-over	wolfram	wolverine
	silver	slavery	sulfur			
585	lavalava	lavaliere	lawful	leaflet	level	lifeline
	lifelong	lifeless	livelihood	lively	lovelock	lovelorn
	lovely	alluvial	alfalfa	olive-oil	wallflower	willful
586	lavage	lavish	leafage	alleviation	elevation	olivaceous
	wolfish	salvage	salvation	selfish		
587	layfolk	laughing	leaving	living	lifeguard	live-oak
	loving	ill-affected	olfactory	self-confidence	well-affected	
588	laugh-off	leave-off	life-force	live-off	Love-wave	ill-favored
	self-evident	well-favored				
589	lavabo	laughable	leafhopper	lifebuoy	lifeboat	livable
	live-by	live-up	lovable	lovebird	love-potion	alphabet

590	labs	laps	lapse	lips	loops	lopsided
	lobbies	lobster	alabaster	alibis	alps	ellipse
	elopes	helps	wall-base	celibacy	-	-
591	lapidary	lappet	leaped	libido	lipid	looped
	law-abiding	albatross	albeit	eloped	allopathy	halibut
	ill-boding	well-paid	whaleboat	-		
592	lupine	albino	Albion	alpine	hell-bent	olibanum
	whalebone	well-appointed	sleepiness	_		
593	low-beam	album	Alabama	albumin	elopement	helpmate
	oil-palm				-	-
594	labor	laboratory	lawbreaker	leopard	leap-year	leprosy
	liberal	liberty	Libra	librarian	looper	lowbrow
	lubricant	elaborate	elbow-room	eloper	helper	ill-bred
	wellborn	wellbred	sleeper	slipper	celebrate	
595	label	lapel	liable	libel	lobelia	loblolly
	lobule	tube-oil	loophole	lowbell	allowable	helpless
	hillbilly	hullabaloo	well-beloved	soluble	syllable	-
596	libation	lobation	low-budget	lowbush	lowpitched	slipshod
597	lawbook	leaping	lobbying	looping	alpaca	eloping
	helping	ill-being	oil-bag	well-being	sleeping	
598	leapfrog	lop-off	all-beef	helpful	wellbehaved	lapful
599	lap-up	leap-up	ale-pub	Ali-Baba	oil-pipe	wallpaper

600	chases	cheeses	choices	jazzist	Jesus	juices
	joss-house	shoe-size				
601	chastity	chest	chestnut	cheese-eater	cheese-head	gest
	geste	gesticulate	gist	jest	joust	justice
	just	Jesuit	shoestring	showstopper	adjust	washstand
	suggest					
602	chasten	chosen	geocentric	jazziness	jacinth	Jason
	adjacent	show-scene	juiciness			
603	chessman	jasmine	jawsmith	jazzman	chassemaree	
604	chaser	chasseur	chooser	cheesery	jowser	juicer
605	chisel	choiceless	jazzily	jostle	joyously	juiceless
	shoe-sale	wash-sale	witch-hazel	hashslinger		
606	cheese-shop	chess-champion	gestion	gesture	egestion	suggestion
607	chasing	chasse-cafe	chasse-croise	cheesecake	cheesecloth	choosing
	joskin					
608	cheeseflower	Joseph	Josephine	jussive	shows-off	
609	chassepot	cheeseparer	cheeseburger	chess-pie	chessboard	jasper
	jazzbow	juice-up	Jezebel	shoespoon	Josup	Shuswap

610	chiteaus	ioto	ioteam	jettison	Judas	shades
010		jets	jetsam	,	•	SHAUES
	shadows	sheets	shots	shouts	geodesy	
611	cheated	jaded	Judith	shaded	shadowed	shoot-out
	shutdown	shutout	agitate	geodetic		
612	chatoyant	chutney	jetness	jetton	jitney	shadiness
	shodden	showdown	shoddiness	shut-in		
613	shedman	sheet-home	shittim	shootman	shotmaker	shotman
	show-time					
614	chatter	cheater	cheddar	chowder	shatter	shoe-tree
	shooter	shouter	shudder	shutter	ashtray	watchtower
	jittery	geotherm			·	
615	chatelain	chattel	chatelet	jetliner	shuttle	shadeless
	shadily	shadowland	shadowly	shot-hole		
616	chitchat	judiciary	judicious	schottische	shotshell	agiotage
	agitation					
617	chatting	cheating	judicature	shaddock	shading	shadowing
	sheeting	shooting	shotgun	shouting	shutting	jotting
	geoduck	watchdog	Asiatic	O	O	, 0
618	shadflower	shadoof	sheatfish	she-devil	sheetfed	sheetflood
	sheetful	shutoff				
619	jetbead	jetport	jodhpur	shadowbox	shadbush	sheetpiling
	sheet-block	sheathbill	shootable	shootboard	shoot-up	shotblast
	shotbush	shot-put	shut-up	chateaubriand	agitable	hushed-up
	washed-up	washtub	" P			w wp
	washea ap	" asirab				

620	chance	chains	chancellor	chanson	Chinese	genesis
	genius	genocide	agency	ginseng	issuance	oceans
	shyness					
621	chandelier	chandler	chant	Chinatown	gendarme	gender
	gentle	gentry	genetics	giant	jaunt	janitor
	jaundice	joint	Jane-Doe	John-Doe	shanty	shindig
	Shinto	shunned	shunt	agenda	agent	witch-hunt
622	chignon	genuine	Shannon	shenango	shenanigan	shoneen
	Shenandoah					
623	chainman	chain-method	Chinaman	chinampa	chunam	genome
	show	name		_		-
624	chinaware	general	generation	generic	generosity	genre
	January	joiner	junior	shiner		
625	chainless	chainlet	channel	chenille	genealogy	genial
	oceanology	shinleaf				
626	change	chain-shaped	chinch	chinchilla	ginger	gingelly
	gingivitis	agential	jointure			
627	chink	Chinook	chunk	gynecologist	johnnycake	joining
	jonquil	junk	junkie	junction	schnook	shining
	shunning	shank	adjunct	adjoining	eugenic	hygienic
628	Geneva	genuflect	janiform	junefish	juneflower	oceanfront
	shoe-knife					
629	china-boy	chinbone	chin-up	janapa	johnapple	johnboat
	joinable	Juneberry	junebud	juniper	schnapps	shinbone
	shinplaster					

630	chemise	chimes	chums	gems	James	jams
	shames	shamus				
631	geometry	jammed	jamwood	jimdandy	jimmyweed	ashamed
	age-mate	•	•	,		
632	chimney	chow-mein	G-man	Gemini	geminate	gymnasium
	gymnast	shaman	showman	ashman	hegemony	hatchman
	hush-money	wash-woman	watchman			
633	Jemima	gym-master	jam-maker	show-member		
634	chimer	chimere	gemmary	jammer	shamir	shammer
	shamrock	shimmer	shomer			
635	chummily	gemlike	gemmologist	gemmule	gym-hall	schmaltz
	shameless	Ishmael				
636	gemmieeous	gemmation	gym-shoe	Jamshid	jimjams	shim-sham
637	chiming	gemming	gimcrack	gymkhana	Jamaica	jamming
	jamoke	shoemaker	watchmaker	yashmak		
638	SHAM-FRUIT	CHAMFER	gem-fruit	gemmiferous	shamefaced	shamefast
	shameful	sham-feed	chamfron	-		
639	chamber	champagne	champion	champignon	chimpanzee	chump
	jambeau	jambalaya	jambone	jam-pack	jam-up	jamboree
	jumbo	jumble	jump	shambles	shampoo	-

640	chairs	cherries	chores	gyroscope	gyrus	jars
	jersey	jurist	Scheherazade	shares	shears	,
641	charity	chard	chart	charter	cheroot	cheet
	chariot	joyride	shirt	short	shard	shred
	shrewd	shroud	surety	watchword	ushered	
642	charnel	churn	gerent	Geronimo	gerund	geranium
	journal	journey	shrine	shrink	shorn	shoehorn
	sojourn	sureness	adjourn	assurance	usher-in	
643	chairman	charm	charwoman	germ	German	germane
	germinate	gerrymander	jeremiad	juryman	jurywoman	ashram
	showroom	shrimp	washerman	washroom		
644	cheerer	Gerardia	juror	sharer	shearer	shearier
	shirrer	shorer	surer	assurer	usherer	usurer
645	charlatan	charily	cheerleader	Charlie	cheerless	churlish
	schorl	sherlock	shoreline	shareholder	shrill	surely
	usherless					
646	charge	cherish	church	Churchill	George	gyration
	shrewish	ushership				
647	charcoal	Cherokee	gyrocompass	Jericho	jerk	jarring
	jargon	jerrican	shark	sharing	shirk	shriek
	shrug					
648	chervil	cheerful	sharif	sheriff	shrift	shrive
	shroff	shrove	surefire	surefooted	giraffe	
649	charabanc	charpoy	cheer-up	cherry-pie	chirp	chirrup
	cherub	sharp	sharpy	sherbet	shorebird	showerproof
	shrapnel	shrub				

650	0 chalice	chills	jalousie	jealousy	jailhouse	jewels
	joyless	Julius	shells	shoelace	ageless	socialism
65	1 child	gelatin	gelid	jilt	jolt	shallot
	shelter	shield	shoulder	age-old	agility	
652	2 challenge	chalone	chilliness	chow-line	jawline	jillion
	jolliness	julienne	shalloon	shallowness	show-line	echelon
	wash-line					
653	3 chalumeau	chillum	schalmei	schlemiel	shalm	shalom
	shellman	gelometer				
654	4 chiller	jailer	jelerang	jewelry	jollier	shallower
	sheller	shalier	shellier	shellwork	ashlar	
655	5 jellyleaf	jellylike	jollity	shale-oil	shallowly	shell-hole
	shell-less	shell-like	agilely	shillelagh		
650	6 geology	shallowish	shellshake	shell-shock	shilly-shally	hagiology
657	7 Shalako	shealing	shellac	shellcracker	shell-egg	shelling
	shellycoat	shilling	Shylock	age-long	gelignite	hatchling
658	8 jellify	jellyfish	jollify	shelf	shellfire	shellfish
	shellflower	shell-vault	shelver			
659	9 chilblain	jailbait	jailbird	jailbreak	jalopy	jellybread
	julep	shallop	shellapple	shellback	shellproof	shilpit

660	cha-chas	chiches	chi-chis	cicisbeo	joy-juice	joshes
	judges	shojis				
661	chichituna	jo-jotte	jujitsu	joshed	judged	shushed
662	jejune	jejunum	Jewishness	shoeshine	Shoshonean	watch-chain
	wishy-washiness					
663	judgmatic	judgment	chechem	Chichimec	shisham	hashish-hemp
664	Cheshire	chicharro	josher	judger	Jewish-rye	ash-shower
665	chachalaca	shashlik	wedge-shell	wishywashily		
666	cha-cha-show	judgeship	hashish-ash			
667	cheechako	joshing	judging	Shoshoko	shushing	
668	Jewish-faith	Jehoshaphat	Cheshvan			
669	Chachapoya	chichipate	chichipe	jojoba	jujube	shoe-shaped
	shoe-shop	showshop				_

670	checks jockeys	checkstones jokes	checkstrap shakes	cheeks showcase	chicks Ajax	jackass hedgehogs
	watchcase	,			,	0 0-
671	checked	checkout	chickadee	Chiquito	chickweed	choked
	gigot	jackdaw	jacket	jagged	shakedown	shake-out
	sheikdom	shocked	adjective	eject	Washington	shoe-shaped
	shoe-shop	showshop				
672	cheekiness	checkin	chicken	chicanery	gigantic	jackknife
	shaken	shake-hand	ashcan			
673	chagoma	checkmate	Chickamauga	geochemist	jackhammer	jigamaree
	shaggymane					
674	chagrin	chicory	checker	checkrein	checkroom	checkwriter
	checkwork	choker	jaguar	jigger	jogger	jayhawker
	jaywalker	joker	geography	age-group	hitchhiker	shaker
	witchcraft	sugar				
675	chagul	checkless	checkline	checklist	chicle	chocolate
	chuckle	gigolo	jackal	Jekyll	jiggle	jingle
	jocular	joggle	juggle	jugular	jungle	shackle
	shekel	shingle	washcloth	wishing-well		
676	checkage	chokecherry	Chukchi	jackshaft	jigjog	ejection
	hootchy-kootchy					
677	checkhook	checking	check-key	Chicago	chugging	jogging
	joking	shaking	shocking	ashcake	jacking	hijacking
678	checkoff	check-over	check-weave	chock-full	choke-full	jackfish
	jackfruit	jugful	shakefork	shake-off	shake-wave	shockwave
679	cheekbone	cheekpiece	checkback	checkbite	checkbook	checkpoint
	check-up	chick-pea	chockablock	Jacob	Jacobin	shakeproof
	shakeup					

680	chafes	chauffeuse	chefs	chiefs	chives	geophysics
	jives	shaves	sheaves	shoves	watch-face	watch-officer
681	chafed	chiefdom	chieftain	cheviot	shaft	shaved
	shavetail	shift	shoved	Java-tea	achieved	
682	chaffinch	chiffon	chauvinist	chavender	Javanese	juvenile
	shaven	ash-oven	washfountain			
683	chief-mate	sheaveman	show-fame	achievement		
684	chafer	chaffer	chaffron	chauffeur	chevron	shofar
	shaver	shivaree	shiver	achiever	ashiver	watch-fire
	witch-fire	whichever	Jefferson			
685	chevalier	chiefless	chiefly	chivalry	javelin	jovial
	joyful	shaveling	sheaflike	shoeflower	shoofly	shovel
	shuffle	ashfall	age-fellow	wishful		
686	chief-justice-ship	chiffchaff	chivage	jewfish	shavish	she-fish
	geophagy					
687	chafing	chaffing	chaffcutter	shaving	shovegroat	shoving
	jiving	showfolk	achieving			
688	chaff-flower	chief-of	shave-off	shove-off		
689	chaffable	chavibetol	achievable	shove-up	watch-fob	

690	chaps	chapstick	chips	chops	chopsuey	chophouse
	gypsy	gypsum	jabs	jobs	gyps	ships
	shops	showbiz	showpiece			
691	chapter	chopped	gibbet	shipped	shopped	showboat
	ashpit	hashpot	hotchpot	Egypt	Jupiter	
692	cheapen	chip-in	Chippendale	Chopin	chubbiness	chupon
	Japan	jawbone	shabbiness	sheepnose	sheepnut	shipowner
	ashpan	hash-pan	watchband	wishbone		
693	chapman	chapwoman	chipmunk	sheepman	sheepmaster	sheepmint
	shipment	shipmaster	shipmate	shopman	hatch-beam	
694	chaparral	chaperon	cheaper	chipper	chopper	gibber
	gypper	jabber	jabberwocky	jobber	jawbreaker	jabiru
	jeopardize	shipper	shopper	shepherd	shipwreck	shipwright
	shipyard	hatch-bar	washboard	switchboard		
695	chapel	chaplain	Chablis	giblets	jobless	jubilee
	shapely	shoeblack	shoebill	showbill	shibboleth	shoplifter
	ash-blonde	washable	sociable			
696	chippage	chop-cherry	chop-chop	jib-o-jib	she-beech	sheepish
	sheepshearer	sheepwash	shipshape	hodgepodge	Egyptian	
697	chapping	chipping	chopping	jabbing	shaping	sheepgate
	shipping	shoepack	shopping	shopkeeper	shebang	hedgepig
698	chapfallen	chop-off	shapeful	sheepfaced	shipfitter	sheepfold
	sheepfoot	shopful				
699	chapbook	chip-blower	chip-proof	jibboom	shapable	shape-up
	sheep-pod	shipboard	shipbuilder	hushpuppy		

700	cases	causes	cusses	gases	gazes	guesses
	gashouse	kisses	axis	access	excess	excise
	exhaust	exist	ecosystem	success		
701	cassette	cast	caustic	cost	costume	coast
	custard	custom	custody	gastronome	gazette	ghost
	guest	gust	gusto	quest	accident	acoustics
	august	ecstasy	excitement	exit	extend	extra
	Occident	oxidize				
702	casino	cosine	coziness	cousin	caisson	cozen
	cuisine	gesundheit	goosander	gooseneck	keeshond	accent
	acquiescence	eccentric	oxen	waxen		
703	casement	chasm	cosmos	gasometer	gizmo	keysmith
	kismet	axiom	axman	exam	example	exempt
	egoism	quasi-medical				
704	causerie	casserole	gasser	gasworks	gazer	geyser
	gizzard	guesswork	Kaiser	accuser	exercise	exert
	exhort	exorbitant	waxer			
705	cas-elaw	caseless	castle	causal	gaslight	gasoline
	gazelle	guzzle	quasi-legislative	quisling	axle	auxiliary
	exalt	exhilarate	exile	excel	exhale	
706	caseation	gasogene	quasi-judicial	quiz-show	accusation	acquisition
	exchange	exchequer	exigent	oxygen		
707	cascade	casing	cask	cassock	cossack	casket
	gasket	goose-egg	kiosk	kissing	exact	excavate
	exclaim	exclude	excuse	execute	excursion	exquisite
708	cohesive	case-phrase	gas-fired	gasiform	gasify	goosefoot
	gooseflesh	kiss-off	oxfly	oxford	quasi-official	
709	casaba	Casbah	cusp	cuspid	cuspidor	gasp
	gazebo	gooseberry	gospel	gossip	hocuspocus	accept
	except	exhibit	expand	expect	expend	experience
	expire	explain	explore	export	express	exuberant
	-	-		_	-	

710	cats	catsup	catastrophe	coats	caddies	codes
	co-eds	codicil	egotism	goddess	godson	kites
	quits		O	O	O	
711	cadet	cathead	cathode	cathedral	cutout	coded
	godhead	gutted	quietude	quotidian	quoted	acted
	acquitted	hog-tied	-	-	-	
712	cadence	catnap	catnip	codeine	cotton	Gideon
	giddiness	good-natured	goodness	guidance	guidon	kidnap
	kidney	kitten	aquatint	acquittance	quietness	wickedness
713	catamaran	catamenia	catamount	gateman	godmother	good-humored
	Gotham	academy	hecatomb			
714	cataract	catarrh	catering	caterpillar	coder	cotter
	cutter	gather	guitar	gutter	kidder	quitter
	quadrant	quadruped	actor	actress	equator	scatter
	squadron	skater				
715	catalog	catholic	cattle	caudle	coddle	cotillion
	cuddle	cutlery	cutlet	godly	goodly	goodwill
	kettle	acquittal	schedule	Scotland	scuttle	
716	cattish	cottage	godchild	good-show	go-dutch	kaddish
	kiddy-show	quotation				
717	catcall	catacomb	catgut	catechism	coeducational	coating
	cuticle	cutting	gatecrasher	goody-goody	Gothic	kidding
	kittiwake	acting	aquatic	hectic	octagon	walkie-talkie
	skating					
718	cadaver	catafalque	catfish	codfish	cutoff	gadfly
	get-off	go-devil	godfather	khedive	active	octave
	scot-free					
719	catapult	catbird	catboat	catbrier	cutback	cutiepie
	cutup	getup	giddap	guidebook	good-bye	Good-Hope
	equitable	October	octopus			

720	cancel	cancer	coincidence	conceal	concede	conceit
	concentration	consent	consequence	conserve	consider	consign
	consist	console	conspire	constable	constitution	consul
	consume	counsel	gunhouse	gainsay	gunnysack	queens
	agonize	Kiwanis				
721	candid	candle	candy	cant	canter	condense
	condition	conductor	contact	content	contest	context
	continue	contract	contribute	count	counter	county
	country	gander	gauntlet	keynoter	kind	quandary
	quantity	quaint	account	acquaint		-
722	canine	cannon	canon	canyon	conundrum	ganoin
	gunhand	Queen-Anne	quinine	•		
723	gunman	gunmetal	agnomen	economy	equanimity	ignominy
	kinema	konimeter				
724	canary	canard	caner	cannery	coiner	coowner
	goner	gunner	gainer	ignoramus	skinner	
725	canal	gunlayer	gunline	gunlock	gunwale	kennel
	keenly	queenly	acknowledge	hangnail	signal	
726	coinage	coinsurer	concha	conjecture	conjugal	conjunctive
	conjurer	conscience	conscientious	conscious	gunshot	gun-shy
	kinship	quench	signature			
727	cannikin	conclave	conclude	concoct	concussion	concord
	conk	concrete	concur	congress	connect	conquer
	conquest	congratulate	cunning	eggnog	hakenkreuz	iconoclast
	kink					
728	canvas	confection	confederate	confer	confine	confirm
	confiscate	conflict	conform	confuse	convalesce	convenient
	convention	convert	convey	convict	convince	convoy
	connive	gainful	gonfalon	gunfight	gunfire	queenfish
729	canape	cannibal	canopy	connubial	gunboat	gunplay
	gunpoint	gunpowder	queenbee	ignoble	-	
	~ *	~ *	-	~		

730	cameos	chemist	comestible	combs	commas	commissary
	games	gums				,
731	comedian	comet	commit	comity	committee	commode
	commodity	commodore	commuter	gamete	gamut	hook-method
	accommodation			O	O	
732	commander	commence	comment	common	commons	commune
	communist	communicate	community	cowman	cumin	gamin
	keyman	kimono	acumen	augment		
733	Camembert	commemorate	co-member	chamomile	Agamemnon	echomimia
734	camera	comer	commerce	commercial	comrade	cummerbund
	gamma-ray	aquamarine				
735	camel	camellia	Camelot	camlet	calmly	chamelion
	comely	cumulative	cumulus	gamely	gimlet	kiimmel
	accumulate					
736	camshaft	commeasure	commission	commissure	commotion	cumshaw
	gumshoe					
737	chemical	coamings	combing	comic	coming	gaming
	gimmick	gumming	kamikaze	kumquat	kymograph	
738	camphor	camphene	camphire	camouflage	come-off	comfit
	comfort	gumfield	gumflower	keymove		
739	camp	campus	combat	combine	combo	compact
	company	compare	compass	compassion	compel	compensate
	competence	compete	complain	complete	complex	compliment
	comply	component	composer	compress	compromise	computer
	gamble	gambit	gambol	gumbo		
	gamble	gambit	gambol	gumbo	compromise	computer

740	caress	coarse	correspond	corsage	corset	course
	craze	crease	crest	crass	crisis	cross
	crucifix	cruise	crust	crystal	curious	curse
	Christian	Christmas	chrysanthemum	charisma	chorus	garcon
	garrison	grace	grasp	grass	graze	grease
	Greece	grocer	gross	accuracy	across	Aquarius
741	carat	card	cardinal	carrot	cart	cartoon
	cord	cordial	corridor	courtesy	court	coward
	cradle	crate	crater	create	credit	critic
	crowd	crude	curate	curd	curt	curtail
	curtain	curtsy	chord	garden	garter	gird
	grade	grate	gratify	gratis	great	greet
	growth	grid	grit	guard	karate	krater
	keyword	quart	quarter	accord	accurate	egret
	yogurt	_	_			_
742	careen	carnage	carnation	carnival	chronic	corn
	corner	cornet	cornice	corny	coronation	crane
	crank	crayon	crony	crown	currant	current
	crooner	cranberry	garnet	garnish	grain	granary
	grand	granite	grant	granny	greenhorn	greyhound
	grin	grind	ground	grown	guarantee	groan
	green	kernel	ocarina	quarantine	hanger-on	
743	Carmen	chromium	cram	cramp	cream	cremate
	crime	crimson	crumb	crumble	garment	gram
	grammar	grampus	grim	grime	groom	grumble
	gourmet	gourmand	gremlin	Karma	kermis	Kremlin
	acrimony	aquarium	agreement	sacrament	scream	skirmish
744	carara	career	careworn	cariri	carrier	courier
	coherer	corer	crier	curare	grower	Gruyere
	agrarian				Ü	•
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745	carryall	careless	carol	coral	corral	crawl
	cruel	curl	cure-all	chorale	garland	garlic
	girl	gorilla	grill	growl	gruel	quarrel
	aquarelle	eggroll	squirrel	scarlet		
746	carriage	carwash	courage	crash	cache	creature
	crouch	crush	crutch	garage	gorge	gorgeous
	gracious	gurge	grudge	kirsch	aggression	accretion
747	carcass	cargo	caricature	character	cork	correct
	crack	crackle	crag	creak	creek	crick
	cricket	croak	crock	crocket	crocodile	crocus
	crook	croquet	co-worker	curriculum	gargle	Greek
	grog	gherkin	aggregate	segregate		
748	carafe	caravan	careful	carryover	carve	corvette
	craft	cravat	crave	crevice	curfew	curve
	graft	graffiti	graph	grave	gravel	gravy
	grief	groove	grove	gruff	aggravate	sacrifice
	scarf					
749	carabao	carbide	carbine	carbon	carboy	carp
	carpet	carry-back	corporal	corporation	corpse	corpulent
	corroborate	crab	crepe	creep	crib	cripple
	crop	croup	curable	curb	chiropodist	chiropractor
	garbage grub	grab	grape	grapple	grip	group

750	calls	calcium	callous	clasp	class	clause
	close	closet	cluster	colossus	cholesterol	gallows
	glass	glaze	glissade	gloss	equalize	oculist
751	cauldron	clad	cleat	clod	cloth	cloud
	cold	collide	colitis	colt	cult	geld
	gilt	glad	glade	glide	glitter	Goliath
	gloat	glut	gold	guild	guilt	kilt
	killed	kilowatt	quilt	equality	occult	wiglet
	escalator		•	1 ,		O
752	calendar	call-in	clandestine	clean	clench	client
	clinch	clinic	clink	clown	colin	colleen
	colon	cologne	colony	coolness	gallant	gallon
	glance	gland	glean	glen	kiln	ugliness
	esculent	O	O	O		O
753	calamity	calumniate	claim	clammy	clamor	clamp
	clemency	climate	climb	clump	clumsy	column
	culminate	glamour	gleam	glimmer	glimpse	gloam
	gloom	glum	acclaim	acclimate	kilometer	schoolmaster
754	caller	calorie	chlorite	claret	clarify	clarinet
	clarion	clear	clergy	clerk	collar	color
	cooler	galore	gallery	glare	glory	glowworm
	killer	Kilroy	eclair	heckler	ocular	ogler
	scholar					
755	Galilean	Galilee	clawless	coalhole	coaloil	glow-lamp
	guileless	keelhaul	echolalia	ukulele	uglily	
756	clash	clutch	collage	collation	college	collision
	coolish	galosh	Gaulish	glacier	goulash	keelage
	killjoy	klatch	ecology	English		
757	calculator	calico	calling	clang	claque	click
	cling	cloak	clock	clog	colic	colleague
	collect	colloquy	cowlick	Gaelic	galling	goalkeeper
	kilogram	kulak	aqualung			
758	cauliflower	clavate	cleave	cleft	clever	cliff
	culvert	clove	gallivant	glove	golf	gulf
	killifish	qualify	oakleaf	skillful		
759	calabash	caliber	calliope	calaboose	calypso	clip
	club	coalpit	collaborator	collapse	culpable	gallop
	glib	glob	gallbladder	globe	goalpost	gullible
	gulp	kelp	kelpie	kleptomaniac	eclipse	equilibrium
	eucalyptus	•	•	•	•	•
	<i>J</i> 1					

760	cages	caches	catches	cautious	coaches	couches
	gashes	gauges	gouges	gushes	gauchos	sagacious
761	cached	cashed	caged	coached	couched	cogitate
	gadget	gashed	gushed	actuate		
762	cash-in	catch-on	caution	cushion	kitchen	action
	auction	equation	occasion	hog-chain	section	
763	cashmere	catchman	catchment	coachman	accouchement	Scotchman
764	cashier	catcher	catchword	cochairman	cojuror	gauger
	gasher	gouger	gusher	kosher	actuary	hung-jury
765	cageling	cajole	casual	catchall	catch-letter	catchlight
	cudgel	actual	eggshell			
766	cachucha	cage-shaped	co-judge			
767	caoutchouc	cashing	catching	coaching	gauging	gouging
	gashing	gushing	hogchoker			
768	cageful	catchfly	catchphrase	cochief		
769	cashbook	cashboy	cashbox	catchpenny	catchpole	catch-up
	ketchup	key-job				_

770	cakes	caucus	coax	coexist	cox	cooks
	gags	gangster	kicks	kings	quicksand	quicksilver
	quacks	quickset	quickstep	S	•	•
771	cockatoo	cocotte	cocowood	cactus	cocktail	cockade
	cockeyed	cooked	cookout	coquette	gaycat	go-getter
	kingdom	aquacade	quick-tempered	quick-witted		
772	cocaine	cocona	coconut	cockiness	cocoon	cognate
	Cockaigne	cockney	cow-cane	kuchen	quickness	cognizance
	cognomen	hog-cane				
773	cocomat	cogman	cuckoo-meat	cucumber	gingham	kakemono
	kingmaker	quagmire	hockey-game			
774	caulker	cockerel	cockhorse	cockroach	cocorico	cograil
	cokery	cookery	cougar	gangrene	go-cart	kicker
	Quaker	quicker				
775	cackle	coagulate	cockle	cocklaird	cocklight	cockalorum
	coequal	coggle	cogwheel	gangland	giggle	goggle
	googol	kingly	quicklime	aquaculture		
776	cockcnafer	cockshut	cockshy	cocksure	coction	cowcatcher
	quackish					
777	caulking	cooking	cogging	gagging	gawking	go-go-girl
	kicking	HongKong	quaking			
778	cacophony	cock-feathered	cockfight	cow-calf	cuckooflower	kickoff
	kingfish					
779	co-captain	cockboat	cockpaddle	cockpit	cockup	cock-a-hoop
	cocobolo	cocopan	cookbook	cuckoo-bee	gangplank	kickback
	kickup	kakapo	kingpin	kookaburra	eggcup	

780	cafes	calves	cavascope	caves	coffeehouse	coifs
	coves	coveys	cuffs	gaffs	goofs	kvass
781	caftan	cavate	cavatina	caveat	cavity	coffeeweed
	coughweed	covet	gavotte	gift	goofed	aquavit
782	caffeine	coven	cavendish	cave-in	coffin	covenant
	given	give-in	goofiness			
783	caveman	cavum	coffee-maker			
784	cavern	caviar	coiffure	coffer	cover	covert
	cougher	gaffer	giver	gopher	goofer	governor
	Kafir	quaver	quiver	hangover		
785	cavalcade	cavalier	cavalla	cavalry	cavil	cafe-au-lait
	coffeeleaf	coeval	coffle	gavel	equivalent	wakeful
	scaffold	scuffle				
786	coefficient	hagfish	hogfish	gavage		
787	coughing	cavaquinho	caving	cofactors	goofing	gaffing
	giving	kaffeeklatsch	kavika	quaffing	equivocal	
788	coffee-flavored	give-off	goof-off	qui-vive		
789	coffeeberry	coffeebush	coffeepot	cough-up	give-up	goofball

790	cabs	caboose	capacity	capes	capsize	capstan
	capstone	capsule	copious	copies	cowboys	gaps
	keepsake	hiccups				
791	capital	capitol	capitulate	captain	captivate	copied
	cop-out	cupid	kept	equipped	sickbed	
792	cabana	cabin	cabinet	capon	coupon	cow-pen
	cow-pony	cowpuncher	Cuban	keypunch	gibbon	gaboon
	occupant	hogpen				
793	cabman	capmint	capomo	equipment	kaboom	cubmaster
794	caper	caprice	cooper	cooperate	copper	copra
	copyreader	copyright	cooper	gabardine	gabber	keeper
	keyboard	kipper	aquapura	skipper		
795	cabal	cable	capelet	capelin	Capella	cobbler
	cobblestone	cobalt	copilot	couple	copula	cowbell
	cubbyhole	cueball	cupel	gable	goblet	goblin
	aquaplane	quibble				
796	cabbage	cabochon	capacious	Cape-ash	caption	captious
	capture	capuchin	kibosh	equipage	occupation	
797	capcase	caping	copycat	copying	cubic	cupcake
	kapok	keeping	kopeck	hockeypuck	hogback	hokey-pokey
	scapegoat	walkback	_		_	
798	Cape-ivy	cap-flash	capful	cupful	keep-off	cubiform
	gabfest	_	_	_	_	
799	capable	cap-a-pie	capybara	cobweb	copybook	copyboy
	cubeb	cupbearer	kabob	keep-up	key-pipe	

800	faces	face-saving	fezzes	fusses	phases	physicist
	vases	vices	vicissitude	voices	ĥalf-size	offices
	off-season					
801	facade	facet	facedown	fast	faucet	Faust
	feast	festival	festoon	fiesta	fist	fusty
	vast	vest	vestibule	vestige	vestry	visit
	avocet	eavesdropper	heavyset	offset	offside	offstage
802	face-nail	fascinate	fasten	fussiness	fuzziness	pheasant
	physiognomy	vasoneurosis	vicenary	vicinity	V-sign	aficionado
	off-center	waveson				
803	facemaking	faceman	vasomotion	vasomotor	vice-master	effacement
	Ophism					
804	facer	facework	fossorial	fusser	vasoreflex	viceroy
	visor	vizier	officer			
805	faceless	face-lift	face-wall	facility	fizzle	fossil
	fusillade	fuselage	foozie	vacillate	vaseline	vassal
	vessel	viceless	voiceless	half-slip	half-sole	officeholder
806	facetious	physician	vice-chairman	vice-chamberlain	vice-chancellor	visage
807	facing	fiasco	fiscal	fizzing	fuscous	fusing
	fussing	fuzzing	physic	physique	vesicle	viceconsul
	vice-god	vice-governor	vice-king	effacing		
808	face-off	phosphor	vis-a-vis	visive	Vesuvian	vociferous
	voiceful	effusive	evasive	halfcivilized		
809	facepiece	faceplate	faceup	feasible	fusible	fussbudget
	vesper	vice-president	visible	office-boy	offspring	

810	fatso	fates	feats	feuds	fights	fetus
	footsore	footstep	footstool	photostat	vats	vets
	votes	-		_		
811	faded	fade-out	fated	fetid	fitted	fuddyduddy
	vedette	voted	phototube	half-tide	half-witted	heavy-duty
	off-duty					
812	fade-in	fatten	fitness	footnote	photonegative	photoengraving
	avoidance	evidence	halftone	offtune	ophidian	softness
813	fathom	fat-man	fitment	footman	footmark	photomap
	vitamin	half-dime	halftime	offtime		
814	father	fatter	feather	fedora	feeder	federal
	fetter	fitter	fighter	fodder	footrest	footwear
	footwork	veteran	veterinarian	vetoer	voter	after
	aviator	evader	heavy-water			
815	fatal	fee-tail	fettle	feudal	fiddle	fidelity
	foothill	foothold	footlights	footlocker	footloose	footwall
	fuddle	futile	vital	vittles	photoelectric	half-dollar
816	fattish	fat-chewing	fat-choy	fetish	fiduciary	footage
	food-show	photogenic	wattage			
817	fading	fatigue	feeding	feuding	fighting	fitting
	footing	photograph	voting	vodka	voiding	evading
818	fateful	faithful	fitful	footfall	photofinishing	photoflash
	photoflood	photo-offset	vaudeville	votive	affidavit	
819	fatback	fed-up	feedback	football	footbridge	footpad
	footpace	footpath	footprint	avoidable		

820	fancy	fence	fiance	finesse	fines	fins
	vainness	veins	vines	Venus	venison	venous
	evince	heaviness	hyphenize	offense	waviness	
821	faint	fanatic	fantastic	fantail	fend	fiend
	find	fond	fondu	found	foundation	foundry
	fountain	fund	phantom	phonetic	vanity	vantage
	vaunt	vend	vendetta	vent	vindicate	vintage
	affinity	event	have-not	hyphenated	offend	offhand
822	faineant	fanion	Fenian	finance	funniness	phoniness
	evenhanded	venenate				
823	funambulist	funnyman	phenomenon	phoneme	venom	euphonium
	ovenman	halfnumb				
824	fawner	finery	funeral	vanward	veneer	venerable
	vineyard	evener	heavenward			
825	fanlight	final	finely	finial	funnel	phenol
	vanilla	vainly	vinyl	heavenly		
826	finch	finish	Finnish	vanish	Venetian	vengeance
	V-engine	avenge	evangel	eventual		-
827	fawning	feigning	finagle	finicky	fink	funicular
	Phoenix	phonic	phonograph	vanguard	vanquish	vinegar
	avionics	avuncular	V-neck	evening	euphonic	
828	fanfare	fun-filled	viniferous	half-inferior	half-nephew	evenfall
829	fanback	finable	finback	phenobarbital	evenup	heaven-born
	oven-baked	ovenbird			_	

830	fames	fameuse	famous	famose	femcee	foams
	fumes	fumous	vamoose	vomicine	euphemism	half-mast
831	famed	foamed	fomites	fumatorium	fumed	fumet
	fumid	vomit	wavemeter	half-made		
832	famine	feminine	foaminess	foeman	foment	vehement
	vimana	effeminate	half-minded	half-monitor	half-moon	if-money
833	foam-maker	off-moment	half-memorized			-
834	femoral	foamier	femur	foumart	fumarole	fumer
	vomer	Ave	Maria	ephemeral	halfmarrow	wavemark
835	family	fameless	familiar	famulus	female	foamless
	foamlike	fumily	fumulus	half-mile		
836	famish	fumagillin	fumagine	fumish	halfmeasure	
837	faming	femic	fimicolous	foaming	fumigate	fuming
	off-mike	wave-mechanical			_	
838	fameflower	fameful	foamflower	save-move	vimful	
839	fimble	fumble	fimbriate	vamp	vampire	vambrace
	vimpa	Phomopsis	half-implied			

840	farce	fierce	firehouse	first	force	forest
	forsake	forswear	freeze	frost	foursome	foresee
	four-star	forsythia	furious	furze	frustrate	Pharisee
	phrase	various	varsity	veracity	verse	affairs
	avarice	averse	aphorism	aviarist	overseas	
841	farthing	ferret	fertile	firth	ford	fort
	forte	fortify	fortress	fourteen	forty	fraternal
	fraud	freedom	freight	fret	Friday	fright
	froth	fruit	further	furtive	fjord	variety
	vertebra	verdict	vertigo	afford	afraid	avert
	effort	everything	overdo	overdue	overtake	overthrow
	overturn	everyumig	overdo	overdue	Overtake	Overtinow
842	farina	fairness	fern	foreign	forename	formon
042				foreign		forenoon
	forehand	France	franchise	frantic	friend	front
	frown	furnace	furnish	variance	varnish	veranda
0.12	effront	everyone	overnight	·		
843	farm	ferment	fireman	firm	form	formal
	foreman	former	formica	formula	forum	frame
	freemason	from	pharmacy	vermicelli	vermin	vermouth
	affirm	evermore				
844	farrier	farer	firearm	fireworks	forearm	forerunner
	forward	freer	friar	fryer	furor	furrier
	everywhere	overhear	over-here	overwork	offerer	wayfarer
	sufferer					
845	fairly	farewell	firelock	firewall	ferrule	forehand
	foreleg	forlorn	frail	Fraulein	freelancer	free-living
	freeloader	freewheeler	frill	frolic	furl	furlong
	furlough	everlasting	overall	overland	overlay	overlook
	overwhelm	virile				
846	ferocious	forage	forge	forejudge	foreshadow	foreshorten
	fourragere	fragile	fresh	frigid	frosh	variation
	veracious	verge	version	virgin	virtue	voracious
	avaricious	average	aversion	overcharge	overshoe	
847	farrago	firecracker	firing	forego	forget	forgive
	fork	fracas	fragrance	fraction	fragment	freak
	freckle	frequent	friction	frigate	frock	frog
	frug	frugal	virago	evergreen	offering	overact
	overcoat	overcome	overgrow	overkill	O	
848	farfetched	far-flung	far-off	fervor	foreface	forefather
- 10	forefinger	forefoot	forfeit	forfend	forehoof	forefront
	forever	free-for-all	frivolity	verify	verve	effervescent
	overflow	overfreight	overview	. 2223	. 02 . 0	siler . escerti
849	fireball	firebox	fireboat	firebrand	firebug	fireplace
UTA	fireplug	firepower	fireproof	forbear	forbid	freebooter
	freeborn		variable	verb	everybody	
		four-poster	variable	VEID	everybody	overpay
	overpower	overburden				

850	fallacy	FALSE	felicitate	fail-safe	fleece	fleas
	fogies	philosophy	valise	velocity	avulse	civilize
851	fallout	falter	fault	felt	field	filter
	filth	flat	flatter	fleet	flight	flitter
	float	flood	flotsam	fluid	flute	flutter
	fold	philodendron	philatelist	valet	valid	vault
	violet	•	•			
852	feline	felon	fall-in	flank	flannel	flinch
	flint	flaunt	flounce	fluent	flounder	fullness
	philanderer	philanthropist	valence	valentine	valiant	villain
	violence	violin	volunteer	vulnerable	avalanche	
853	fellowman	filament	film	flam	flame	flambeau
	flamboyant	flamenco	flamingo	flimsy	flume	flummery
	folium	fulham	fulminate	vellum	velometer	volume
	velum					
854	failure	flair	flare	filler	flirt	flier
	florin	floor	flour	flower	flurry	follower
	fuller	phalarope	philharmonic	valor	velour	valerian
	volar	1 1	1			
855	fallal	filial	flail	flawless	flyleaf	flywheel
	fuel-oil	full-length	philologist	valueless	,	•
856	filch	flash	flesh	flush	fellowship	fledgling
	fletch	flowage	fly-ash	foliage	foolish	valuation
	village	violation	volition	vulture	affiliation	avulsion
	effulgence	evolution	ovalshaped			
857	falcon	fallguy	falling	felucca	filigree	filing
	flag	flake	flax	flex	flick	fling
	flog	flock	fluke	flying	follicle	following
	fulcrum	phlegmatic	phlox	volcano	vulgar	afflict
	havelock	Ivy-League	-			
858	fallfish	falloff	filefish	file-off	flavin	flavor
	flivver	fluvial	flyover	fluff	fulfill	fulvous
	valve	velvet	vilify	vulva	effluvium	evolve
	half-life	ivy-leaf	•			
859	fallible	flab	flap	flip	flop	flub
	fillip	filibuster	Filipino	flyboy	flypaper	followup
	foul-up	fullback	full-blooded	full-blown	valuable	voluble
	volplane	voluptuous	available			
	•	•				

860	fascist	fatuous	fishes	fish-house	vicious	vouchsafe
	voyages	vichyssoise	effigies	officious	savages	
861	fidget	fished	fish-day	fishtail	fishweed	fishwood
	fitchet	fugitive	vegetable	vegetarian	vitiate	vouched
	half-sheet	half-shot	officiate	offshoot		
862	fagine	fashion	fission	fishiness	fishnet	fusion
	Vishnu	vision	aviation	efficient	effusion	evasion
	oafishness	officiant	offishness	ovation	sufficient	
863	fishman	fish-maw	fishmonger	fishmouth	avouchment	
864	feature	fisher	fishweir	fishworm	fissure	fudger
	future	voucher	voyager	voyageur	officiary	offshore
	savagery				-	
865	facial	fishhold	fishily	fishline	fishoil	fishowl
	fishwell	fudgewheel	vagile	vetchling	vigil	visual
	halfshell	official				
866	fish-joint	vitiation	voyage-charter	fasciation		
867	fetching	fishgig	fishhawk	fishhook	fishing	fetching
	vouching	voyaging	half-jug			
868	fishfall	fish-farming	fishify	fish-flour	fishwife	fish-finder
	half-shaved		-			
869	fetch-up	fishable	fish-bellied	fish-blooded	fishbowl	fishberry
	fish-bone	fishpond	fishpound	fishplate	fishy-back	vouchsafe
	off-job	wave-shape	_	_	-	

870	facsimile	fakes	fix	figs	focsle	focus
	fogs	folks	fox	fucose	focus	vaccine
	vex	efficacy	evokes	half-caste	offcast	
871	fact	factory	factotum	faggot	fagott	fecket
	fictitious	fogeater	folktale	vacate	victim	victor
	vocative	affect	avocado	effect	evacuate	offcut
	wave-cut					
872	fecund	fogginess	afghan	vacant	vagueness	vicuna
	viscount	half-cone	safe-conduct			
873	fagmaster	figment	focometer	folkmoot	vacuum	offcome
	off-camera	off-campus	phocomelia			
874	faker	fakir	fiacre	ficaria	figure	figwort
	foggara	fogger	foghorn	folkright	vagrant	vaquero
	vicar	vigor	evoker	half	acre	safecracker
	safeguard					
875	fackeltanz	faculty	fecal	feckless	fickle	focal
	fogle	fogless	folkland	folklore	fugal	fugleman
	vaguely	vehicle	vocal	aviculture	half-eagle	if-clause
	off-color					
876	faction	factual	feature	fiction	figshell	foggage
	fogyish	folkish	fugacious	vacation	vaguish	vocation
	avocation	efficacious	eviction			
877	fagging	faking	fogging	folkcraft	Viking	half-cock
	evoking	havocking	heavy-going	offgoing		
878	fake-off	feckful	fogfruit	folkfest	halfcovered	ivy-covered
879	fogbank	fogbow	fogbound	vagabond	vocable	vocabulary
	evocable	half-cap	huffcap	safekeeping		

880	fauvism	fives	fivesome	fivesome	five-spot	five-star
	frvestones	fiefs	fifes	vavasor	vivacity	vivisection
	half-faced					
881	fifth	fifty	fifteen	fiefdom	five-day	vivid
	half-fed	heavy-footed	hoof-foot			
882	favonian	viewfinder	vivente	vivandier	ivy-vine	Vivien
	avifauna					
883	five-man	five-minute	feoffment	half-feminine	vivamente	
884	favor	favorite	fever	feoffor	fifer	fiver
	fiferail	five-year	foofaraw	viverrine	half-fare	half-evergreen
885	faveolus	favilla	five-leaf	fiveling	foveal	half-full
	half-oval	half-volley	half-vowel	off-flavor	V-value	
886	fifeshire	five-shooter	foveation	vivacious		
887	fifing	five-corners	five-corns	half-vacant	ophiophagous	
888	faviform	fee-faw-fum	five-figure	fivefold	five-finger	five-footer
	foveiform	vivificate	vivify			
889	fife-player	five-piece	fivepins	five-ply	fivepence	five-percenter
	viviparous			-		

890	fibs	fobs	fibster	fops	phoebes	Phoebus
	fubsy	phobias	VIPs	ovipositor	ĥalfpace	wave-base
891	vapid	if-bet	fibbed	fobbed	fopped	half-bat
	half-boot	half-paid	hoofbeat	offbeat	Phi-Beta	V-bottom
892	Fabian	viewpoint	half-bent	half-bound	halfopen	halfpenny
	half-pint	hoofbound				
893	fob-maker	half-beam	off-beam	V-bomb		
894	fabric	febrile	February	fiber	fibber	foppery
	vapor	vibrate	viper	evaporate	halfbreed	hoofprint
	ivyberry	offprint				
895	fable	fabulous	feeble	fibula	fipple	foible
	viable	affable	half-blooded	half-bull	ivybells	off-balance
	V-belt	V-block	safe-pledge			
896	fabaceous	fob-chain	foppish	half-page	halfpitch	off-pitch
	ivy-bush					
897	fibbing	fobbing	fopping	ephebic	halfback	half-baked
	halfback	half-box	half-pack	half-pike	hoof-pick	off-peak
	phobic	vapography				
898	fabiform	fob-off	half-paved	half-payoff		

900	paces	passes	pauses	pieces	Pisces	possess
	poses	basis	bosses	buses	apsis	abscess
	obsess					
901	past	paste	pastor	pastry	peseta	pest
	piston	pistol	post	positive	postiche	postillion
	base-hit	bast	bastard	baste	beast	beside
	best	bestow	bistro	boast	boisterous	bust
	abstain	abstract	apostrophe	obstacle	obstruct	opposite
	upset	upstairs	upstart			
902	peasant	poison	baseness	basin	bassinet	bassoon
	bison	business	absent	epicene	obeisance	obscene
903	pacemaker	peacemaker	pessimist	baseman	basement	beseem
	besmear	besmirch	besom	bosom	aposematic	appeasemen
	opossum	spasm	specimen			
904	pacer	passer	piecework	bazaar	bizarre	boozer
	buzzer	absorb	absurd	abuser	observe	opposer
	upsurge					
905	passel	pusillanimous	puzzle	pussywillow	baseless	basil
	absolute	absolve	apostle	epsilon	obsolete	upswell
906	passage	pasture	position	possession	posture	bee-sage
	beseech	besiege	obsession	abscission	-	-
907	passkey	passing	pesky	pussycat	base-court	basic
	bascule	bask	basket	bazooka	bicycle	biscuit
	bisque	boscage	abscond	episcopal	obscure	opposing
	upswing					
908	Pacific	pacifier	passive	peaceful	piassava	pussyfoot
	abusive	specific	_	_	_	- •
909	passable	passback	passband	passbook	pass-by	passport
	passe-partout	pass-up	peaceable	peace-pipe	peace-plan	pea-soup
	possible	baseball	bespatter	besprinkle	biceps	busboy
	busybody	upsweep	•	•	•	Ž
	, ,	1 1				

910	patsy	peau-de-soie	pedestal	pedestrian	poetess	pizza
	batsman	bathhouse	bathyscaphe	beads	beside	bodice
	boots	hypothesis	appetizer	obtest		
911	padded	petite	pas-de-deux	potato	beatitude	bedtime
	apathetic	appetite	aptitude	epithet	ebbtide	habitat
	hypothetical	update	uptight	up-to-date		
912	patent	patina	petunia	piton	potency	put-on
	python	badness	badinage	baton	beatnik	bedouin
	between	botany	butane	button	obedient	obtain
	uptown	·				
913	peatman	pitman	podium	badminton	betimes	bottom
	by-time	abdomen	apothegm	epidemic	epitome	hebdomad
	optimist	September	speedometer			
914	patriot	patron	patter	pattern	petroleum	pewter
	poetry	pother	potter	powder	putter	bather
	batter	battery	bedroom	betray	better	betroth
	bidder	bitter	bother	boudoir	butter	obtrusive
	upturn					
915	paddle	padlock	pedal	pitiless	poodle	pothole
	potluck	puddle	badly	battle	bedlam	beetle
	bodily	bootleg	bottle	butler	aptly	
916	patche	patagium	pedogenic	petition	potage	potash
	potiche	potsherd	potshot	pottage	potty-chair	beautician
	bootjack	habitation	optician			
917	padding	paddock	patting	pedicure	pedigree	petticoat
	petting	pudding	bathing	bedding	bedeck	betting
	biting	boating	bodega	bodkin	bodyguard	boutique
	abdicate	abduct	apothecary	heptagon	optical	uptake
918	pay-TV	pettifogger	pitfall	pitiful	pot-aufeu	potful
	put-off	baitfish	batfish	batfowl	beatify	beautiful
	bedfast	epitaph	spiteful		-	
919	paid-up	petit-pois	potable	potbelly	potpie	put-up
	bad-boy	batboy	beat-up	bedbug	bedpan	habitable
	hospitable	-	-	~	-	
	-					

020	manacaa	nanc	naina	10.010.011	n on co	noncil
920	panacea	pans	pains	pansy	pence	pencil
	pensive	pianist	pincers	pounce	puns	banister
	benzine	bonus	bounce	bunnies	buoyancy	abeyance
001	happiness	hypnosis		.1	1 ,	
921	paint	panda	pant	panther	pendant	penetrate
	penitent	penthouse	pint	point	pond	pontoon
	pound	pundit	band	banter	bayonet	behind
	bend	beneath	bent	beyond	bind	bond
	bonito	bonnet	bound	bounty	bundle	abandon
	append	appoint	hypnotist			
922	panhandle	penance	peninsula	penknife	pennant	pennon
	pinane	pinion	puniness	banana	benign	bonanza
	bunion	open-end	opinion	opponent		
923	panama	Pan-American	panman	penman	penumbra	pinman
	benumb	bonhomie	byname	eponym	open-minded	openmouthed
924	panorama	peignoir	penury	pioneer	banner	beanery
	binary	binaural	boner	abnormal	habanera	open-air
	opener	weaponry				•
925	panel	penal	penholder	penniless	penile	penult
	pianola	pinhole	pinwheel	banal	ĥobnail	openly
	spaniel	•	•			
926	panache	panjandrum	pawnshop	penchant	pension	penuche
	pinch	poncho	pongee	punch	pungent	punish
	banish	banjo	banshee	bench	bunch	appanage
	espionage	Spanish	spinach			
927	pancake	pancreas	panic	penguin	pincushion	pink
	pinkeye	Pinkerton	pinko	pinnacle	punctual	punk
	bank	banquet	bunk	bunker	abnegate	happening
	opening	1			O	11 0
928	painful	panfish	panfried	pen-friend	pianoforte	pinafore
	pinfall	pinfeather	pinfire	pinfish	pinfold	benefit
	benevolent	bonefish	bonfire	boniface	bowie-knife	
929	panoply	panpipe	panplane	pawnbroker	penny-pincher	penny-plain
	pennyprick	pinball	pinbone	pineapple	pinpoint	pinprick
	pinniped	pinup	bonapartist	bonebreaker	hobnob	open-up
	L L	LL	- 51.0.P 0.1 115t	2 21.02 100.101		. L L

930	palmist	paymaster	poems	pomace	pomes	pumice
	Bahamas	beams	bemuse	bombs	booms	bums
931	pomade	poematic	pommetty	beamed	beamtrawl	behemoth
	bimetal	biometrics	bombed	bomb-out	boomed	boomtown
	by-motive	hop-o-my-thumb				
932	payment	pieman	pimento	pimiento	Pomona	bemman
	bemoan	bimanual	bimonthly	bowman	abominable	ape-man
	hypomania					
933	palm-marten	baum-marten	boom-man			
934	palmer	Pomeranian	beamer	bemire	bomber	boomer
	boomerang	bummer	submarine			
935	palm-oil	pimelate	pomelo	pommel	pomologist	pummel
	boomless	boomlet				
936	bombshell	boomage	beamish	pomaceous	pumiceous	bumptious
	submission					
937	palming	pemmican	pomegranate	pumex	beaming	bombing
	booming	boomkin	bumkin	bumming		
938	palmification	palmful	pamphlet	pemphigus	pomfret	pomiform
	opium-fiend	_			_	_
939	pampas	pamper	pimp	pimpernel	pimple	pomp
	pompadour	pom-pom	pompon	pump	Bambi	bamboo
	bamboozle	bimbo	bimeby	bombard	bombast	bumblebee
	bumper		-			

940	parasite	parasol	parcel	Paris	parson	perceive
	percentage	persecute	persist	person	persuade	pierce
	porcelain	porous	praise	precede	precise	prescription
	presence	preserve	president	press	prestige	presume
	price	prison	proceed	process	prospect	prosper
	purse	barrister	bracelet	brass	brazen	breast
	breeze	bristle	oppress	hobbyhorse	upper-house	
941	parade	paradise	pardon	part	party	period
	pert	pirate	port	portrait	predict	pretense
	pretext	pretzel	pride	product	protect	protein
	protest	proud	prude	purity	bard	baritone
	barter	beard	berth	bird	birdie	birth
	board	braid	bread	breath	breed	bride
	bridle	British	broad	broth	brother	brutal
	burden	aboard	abroad	apart	apparatus	Opart
	operate			_		_
942	parent	paranoid	paranymph	parentheses	prank	principle
	print	pronoun	prune	barn	barren	baron
	boron	born	brain	bran	branch	brand
	brandy	brawn	brink	bronco	bronze	brown
	burn	abhorrent	apparent	apprehend	apprentice	apron
	auburn					
943	paramount	paramour	preempt	permanent	permeate	permit
	premier	prime	primitive	primo	primrose	prominent
	promise	promote	prompt	pyramid	pyromaniac	barmaid
	brim	broom	barometer	brome		
944	pairer	parer	poorer	prairie	prayer	prerequisite
	prerogative	prewar	prior	priority	prorated	barrier
	bearer	borer	borrower	brewer	briar	uproar

945	parallel	paralyze	parlay	parley	parliament	parlor
	parole	payroll	pearl	peerless	peril	poorly
	prelate	prelude	prologue	prolong	prowl	purloin
	barley	barrel	brawl	braille	beer-hall	broil
	burial	burlesque	burlap	apparel	whippoorwill	April
946	parachute	parchment	parish	peerage	perch	perjury
	Persia	porch	porridge	portion	preach	precious
	prejudice	pressure	project	purchase	purge	barge
	barrage	biracial	birch	breach	breeches	brewage
	bridge	brioche	broach	brochure	brooch	brush
	burgeoning	aborigine	abortion	apparition	apportion	aperture
	appreciate	approach	operation		• •	•
947	park	paring	parquet	perk	pork	practice
	pregnant	prick	proclaim	prognosis	program	progress
	proxy	purgatory	purring	bargain	bark	barkeeper
	barracks	barricade	bearing	brag	brake	break
	breakfast	brick	brig	bring	briquette	broker
	brook	burglar	abracadabra	abrogate	approximate	uppercut
948	paraffin	paraphernalia	paraphrase	paravane	parvenu	perfect
	perfidious	perforate	perform	perfume	periphery	pervert
	pervious	powerful	prefab	preface	prefer	prevent
	preview	previous	privacy	profane	profession	proficiency
	profile	profit	proof	prophecy	prove	providence
	province	provision	provocation	purify	barfly	brave
	brief	abbreviate	approve		•	
949	parable	parapet	parboil	perhaps	peripatetic	perpetrate
	perpetuate	perplex	porpoise	prepare	probable	probate
	problem	prohibit	prop	propeller	propter	proportion
	proposal	proprietor	purple	purpose	barbarian	barber
	barbell	barbecue	bourbon	brob	burp	abrupt
	approbate	appropriation	apropos	hyperbole	-	-
	_		_	_		

950	palace	pals	place	placebo	placid	plasma
	plaza	plaster	please	plus	police	policy
	polestar	pollster	pulse	ballast	blaspheme	blast
	blaze	blessing	bliss	blister	blizzard	blouse
	bluster	bolster	bluestocking	bylaws	bulls-eye	applause
	hapless	upholstery	hopeless			
951	paladin	pallet	palliative	pelt	pilot	plaid
	plait	plate	platform	platinum	plead	pleat
	plight	plot	poultry	polite	ballad	bald
	ballot	behold	belt	bewilder	billet	bladder
	blade	bleed	bloat	blood	blot	bold
	bolt	build	bulldog	bullet	bulletin	ability
	applaud	uphold	obliterate			
952	paleness	plain	plaint	plane	plank	plankton
	plant	plenty	plunder	pollen	balance	balloon
	baloney	beeline	bland	blank	blanket	blend
	blind	blink	blonde	bluenose	blunt	bologna
	bowline	bullion	by-line	appliance	opulent	upland
953	palmetto	palominos	pall-mall	playmate	plum	plume
	plumb	plumber	plump	polemic	polymer	blame
	blemish	blimp	bloom	bloomers	boloman	bolometer
	aplomb	sublime	supplement			
954	pallor	peeler	pillar	pillory	pliers	player
	plower	plural	polar	puller	bailor	billiards
	blower	boiler	bowler	bullring	bulrush	bulwark
	applier	supplier				
955	palolo	playland	playlet	pool-hall	balalaika	blue-law
	boll-hull	bullwheel			1. 1	
956	pillage	pleasure	pledge	plush	polish	polution
	belch	bleach	bilge	blotch	bludgeon	bluejay
	blush	bulge	bullish	ablution	abolish	appellation
057	apology	applejack	oblige	whiplash	splash	1 ,
957	paling	pelican	pilgrim	playing	placard	placate
	plague	plaque	playground	pluck	polecat	polygamy
	polyglot	polygon	bailiwick	balcony	belong	billycock
	black	block	bloke	blowgun	bulk	bull-oak
OFO	bullock	bullying	applicant	appealing	spelling	:1- <i>f</i>
958	paleface	palfrey	palaver	pelf	pelvis	pilaf
	playful	plover	pullover beloved	pulverize billfold	bayleaf	bailiff bluefish
	belfry	belief bolivar			bullfinch	bull-voiced
	bluff	oblivion	boulevard	bullfight	bullfrog	buii-voicea
959	bullyhuff pallbearer	palpitate	uplift pillbox	nlavbov	playpon	plebe
202	pliable	plop	polyp	playboy	playpen pulpit	ballplayer
	bellboy	blip	blooper	pulp blowup	blueberry	bluebird
	bulb	bluebonnet	bullpen	bullpup	bullwhip	bullyboy
	applepie	epileptic	bumpen	bumpup	bunwinp	Dunyboy
	appiepie	ephephic				

960	pachisi	patches	peaches	pitches	pouches	poaches
	pushes	badges	beaches	beeches	beaugeste	bitches
	bushes	Apaches				
961	peashooter	pitch-dark	pitchout	poached	pushed	beachhead
	bewitched	bowshot	budget	bushed	bush-out	bush-tea
	upshot	habituate				
962	pageant	passion	patient	pidgin	pigeon	pitch-in
	potion	pudginess	pushiness	beechnut	biogenic	bitchiness
	apogean	option				
963	pajamas	pitchman	pushmobile	beachman	beachmaster	bechamel
	bigeminal	bushman	bushmaster	bushhammer	boojum	abashment
964	patchwork	pejorative	pitcher	poacher	pochard	pusher
	badger	batcher	bushranger	bushrope	butcher	abjure
	obituary					
965	patchouli	petulance	pitchhole	pugilist	bachelor	Beaujolais
	bitchily	bushel	bushland	bushleague	special	speechless
	habitual					
966	beach-shoe	pushchair	habituation			
967	patching	paycheck	pishogue	pitching	pushing	pushcart
	beachcomber	bushcraft	bushgrass	bush-hook	bushing	abject
	object	upcheck	upchuck	subject		
968	pitch-faced	pitchfork	pushful	pushover	bashful	bushfighter
	bushveld	by-Jove	upshift			
969	page-boy	patch-up	peach-pie	pishposh	pie-shape	pitchblende
	pushball	push-button	push-up	bishop	bushberry	bushboy
	bush-pea	bushpig	heebie-jeebies	hobby-shop		

970	packs	pax	PX	Picasso	pikes	pigskin
	pixie	pox	Bacchus	backs	bags	bangs
	because	bequest	bogs	bogus	books	box
	boxer	abacus	apex	epics	epoxy	
971	packet	pact	pagoda	picket	pigtail	pocket
	bacteria	beget	bequeath	big-idea	bigot	bucket
	buckwheat	bugout	hepcat	ubiquitous	aspect	spectator
972	pagan	pecan	pecuniary	picayune	pickaninny	piquant
	pignut	bacchanal	bacon	beacon	beckon	begin
	begonia	beguine	big-name	bigness	bugginess	bygone
	epigone	hypochondria	O	O	00	, 0
973	pigment	pygmy	Pygmalion	bakemeat	becalm	become
	bigamy	bigmouth	boogeyman	bookmaker	bookmark	book-match
	bookmobile	buggyman	hippocampus			
974	packer	picaroon	picker	pickerel	piker	poker
	pucker	backer	backward	baker	beggar	beaker
	bigger	biography	bicarbonate	buck-ram	Apocrypha	epicure
	epigram	hypocrite	Hippocratic			•
975	peculiar	piccalilli	piccolo	pickle	picklock	backlash
	backlog	bagel	beagle	becloud	biweekly	beguile
	bogland	booklet	buckle	bugle	bugloss	by
	golly	apiculture				•
976	package	picture	backwash	baggage	bakeshop	baksheesh
	big-jaw	bocaccio	bookish	bookshelf	bookshop	buckish
	buckjump	buckshot				
977	peacock	packing	pecking	pegging	picking	poking
	backache	background	backing	begging	bigwig	boogie-woogie
	bookcase	bookkeeper	bugging	buckwagon		
978	peccavi	pickoff	pigfish	backfield	backfire	back-formation
	bagful	big-if	bogfern	bugfish		
979	peekaboo	pickup	pickpocket	piggyback	pigpen	backbencher
	backboard	backbone	back-pay	back-up	bagpipe	beekeeper
	bookbinder	bugaboo	bugbane	bugbear	bugbite	buckplate
	buckpot	buck-up	hubcap	upkeep		

980	paves	pavestone	payoffs	peeves	puffs	beefs
	beefsteak	beehives	behaves	obfuscate	obvious	
981	paved	pavid	pivot	puffed	beefeater	beefheaded
	beef-tea	beeftongue	befit	buffet	buff-tip	buvette
	befuddle	behaved	abaft	obviate	webfoot	
982	pavane	puffin	puffiness	bovine	bouffant	bowfin
	buffoon	Epiphany	hopvine			
983	pavement	bivium	_			
984	paver	pay-for	poverty	puffer	beaver	beefer
	before	befriend	behavior	beverage	biform	bowfront
	boyfriend	buffer	obverse	<u> </u>		
985	pavilion	piffle	baffle	B-flat	befall	beefless
	beeflower	bee-fly	befool	bevel	bifold	bivalence
	bivalve	buffalo	bufflehead	hopeful	upflow	
986	pavane	peevish	bifacial	bufagin		
987	paving	puffing	beefcake	beef-cow	behaving	bifocals
	bivouac	buffcoat	buffing	by-effect	aboveground	
988	puff-off	puff-fish				
989	puffball	puffbird	puff-up	beefburger	beef-pie	beef-up
	buffable	buffbar	aboveboard	-		_

990	1 1 /	papistry	papoose	pip-squeak	poppies	puppies
	PPS	babies	biopsy	bobbysoxer	bobsled	bypass
991	1 1	pipit	pipette	Poppy-Day	puppet	babbitt
	babyhood	baptism	biped	bobtail	booby-trap	bypath
	hippopotamus	upbeat				
992	peppiriess	pipe-in	pippin	popinjay	baboon	bobbin
	bobbinet	hipbone				
993	Papiamento	pipeman	bee-balm	baby-minder		
994	paper	paprika	pauper	peeper	pepper	peppermint
	piper	popery	potpourri	puberty	by-product	bipartisan
995	papal	payable	pebble	peephole	people	piebald
	pipeline	poplin	poplar	populace	popular	public
	publisher	pupil	Pueblo	babble	Bible	biplane
	bobolink	bubble	byplay	apoplexy		
996	pea-patch	peep-show	pipage	popish	poppy-ash	poppy-show
	babushka	babyish	baby-show	booby-hatch		
997	payback	paybook	pipecoline	pipe-clay	pipe-key	piping
	pipkin	popcorn	popgun	poppycock	babying	bobcat
998	papaver	pepful	pipefish	pipeful	pop-off	popover
	poppyfish	baby-faced	bobfly	bubby-flower	pupfish	pupiform
999	pep-up	pipable	pipe-band	pipe-opener	poppy-bee	pop-up
	baby-boy	baobab	bebop	bubbybush		
1000	dioceses	diseases	disuses			

16.2 Picture Words from John D. Cook

I added these to the master tables above. Many come from contemporary science fiction.

Adidas	Aquinas	Bilbo			
Bones	bump	cabasa	Chekhov	Chewbacca	chimp
cobra	Cupid	Darth	dashiki		-
Douthat (Ross)	Dudley	Ents	floss		
Frodo	Gimli	Gollum	Gorn	Han Solo	
Harry Mudd	Icarus	Jabba (the) Hutt	jacks	Kirk	Lando
Linus	Lysol				
parrot	Pepsi	phaser	Pluto	possum	
Sauron	sawzall	sax	Scottie	Shelob	shofar
socks	Spock	sweets			
Vader	wheelbarrow				