How to Memorize Cards, GUIDs, Hashes, Public Keys, and More — Revision 10

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1 Change log

- Revision 3
 - includes some sound-alikes and peg candidates from John D. Cook, plus a hint from him that science fiction is a worthwhile fount of sound-alikes
 - begins promoting the first row in each table to "preferred sound alikes"
- Revision 4
 - includes remarks about passwords and mental hash functions from John D. Cook
- Revision 5
 - include Tarot images
- Revision 6
 - automate production of tables with Clojure program
- Revision 7
 - Non-Alphabetic ASCII

2 Introduction

I memorize numbers in any radix (base) by hallucinating poems, stories, or mental cartoon movies via the Mnemonic Major System:

```
https://en.wikipedia.org/wiki/Mnemonic major system
```

My hallucinations come with synaesthesia: smells, heat, texture, colors, brightness, etc. I use only imagination, no drugs. Many memory practitioners do not use synaesthesia, but they help me.

Krill calls the hallucinations "phantasmagorias" and the inputs for them "phantasmagorishables," which itself encodes the digits 8210 3746 95.

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

My methods are based on tables of

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

sound-alikes fluid, mutable list of hallucinogenic words that are similar in their consonant 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," first, a chef might not fit well into an ongoing hallucination. For instance, if we're memorizing 276872, the pegs are NECK, CHEF, and CAN. That sequence does not invoke an obvious story, 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 little time to devise INCA CHIEF COIN from NECK CHEF CAN, but the other direction is instantaneous. Sound-alikes are many-to-one because there are many words that map to each number.

See the last section, Section 13 of this document, after the Appendices, for the complete maps of numbers to pegs and sound-alikes.

For radices beyond decimal, I choose a mapping from alphanumeric glyphs to ASCII because I already have the mapping memorized for instant, bidirectional recall (Section 9). In appendices, I show some alternative mappings for people who don't have ASCII memorized.

3 The System of Sound-Alikes

The pegs for the decimal digits, with some mnemonic hints, are

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)	
3	me	in the mirror tying a bow tie;	
		"m" has 3 legs	
4	ray	this one is hard to remember;	
		just brute-force it	
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
		(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 like it, 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 13. Pick your own peg for each digit, make your own table, memorize it, and stick with it forever. NEVER, EVER CHANGE ANYTHING IN IT. I did that once more than 50 years ago, and I continue 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	mane	hymen	mine	minnow	moon
	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
- the first line contains six 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 hallucinate Superman flying out of the phone booth or arriving to Save the Day. The Sound-Alikes help you create phantasmagorias (aka hallucinations) from long strings of numbers by devising a story. With practice, you can get fast. Eran Katz, who teaches this method professionally, often opens his lectures with a stunt wherein he memorizes hundreds of digits as quickly as the audience calls them out and his assistant writes them down.

We go 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. For instance, here is the list for 352:

352 MELON Himalayans hemline semolina milliner homeland malign melancholy millennium million

For words with three internal consonants, leading zeros and all sounds after the third consonant do not count. "Semolina" encodes 352 despite the leading "s." "Semolina" does not encode 035 because the "n" in "...ina" is a third internal consonant. For 035, indeed, we have the following.

035	SAWMILL	smile	smell	small	simile	sea-mile
Z	assimilate	seamless	seemly	similar		

"Assimilate" is an apparent exception to the rule, inherited from Furst. At speed, I would probably read it as 351 and not as 35. Let's see what our dictionary has for 351 (the dictionary source for this document is stored in file core.clj. The tables in this document are automatically formatted from raw data in that source file every time this document is exported from org-mode to PDF).

351	MALT	melt	mold	omelet	smelt	mulatto
	emulate	hamlet	homiletics	humility	malady	mallet
	meld	melodrama	melody	milady	mild	military
	millet	muleteer	multiple	multitude	simulate	simultaneous
	smolder	umlaut	•			

Yup, "assimilate" is ambiguous: it's both . TODO: fix this.

Vowels and the weak consonants "h," "w," "wh," "y," and so on, do not count. Thus, "Himalayans" is 352 because the first non-weak consonant is "m" for 3.

My basic 2-digit peg list appears below, extended from 99 to 127 for ASCII and with nine extra pegs for court cards (Section 12.8). I know this table by heart. My Dad and many memory experts know pegs for 3 digits by heart and "compute" sound-alikes on-the-fly. I'm not that good, yet.

[&]quot;Millenium" encodes 352 despite the trailing "...ium."

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

4 Credit-Card Numbers

Consider the following, fake VISA number from

https://www.getcreditcardnumbers.com

```
4716 5752 8659 3825
```

From the peg list, we get

4716 rack tissue5752 lake lane8659 fish lap3825 muff rail

There isn't an obvious narrative, here, but we get better by starting with "fish" (picturesque and smelly) and working some 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
3825	MOVE REEL	MOVE the REEL slowly (on the fishing rod).

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

5 Hexadecimal: GUID & SHA-1

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

hex	NATO	ASCII		hallucination
A	ALPHA	jail	65	the alpha-male lion is in jail
В	BAKER	judge	66	passing judgment on the lion
C	CHARLIE			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	jack	sheikh	chick	cheek	choke
C	Django	aging	check	chic	chuck	chug
	etching	itching	jingo	jock	jockey	joke
	jug	shack	shag	shake	shako	shock
	shuck	washing	watching	wishing		
68	CHEF	chief	Chevy	sheaf	chaff	chive
D	Java	Jehovah	achieve	chafe	jayvee	jiffy
	jive	shave	shove	wash-off		
69	CHIP	jib	jeep	sheep	ship	Job
E	GP	chap	chapeau	cheap	chop	chubby
	gyp	jab	jibe	job	shabby	shape
	shop					
70	CASE	gas	goose	kiss	ox	eggs
F	accuse	acquiesce	ax	cause	causeway	chaos
	cozy	cuss	gauze	gaze	guess	guise
	guys	hex	hoax	quasi	wax	

5.1 Example GUID:

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

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

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 as 67 50 "chalk lace." "Chalk" decodes as C, not as 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.

5.2 Example SHA-1 Hash

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

A638	1B63	jail camel 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 hash (puns help the memory), then summon middle-Eastern heavenly dreams.

```
    A638 1B63 with SHAWL and CAMEL, 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
    860D D679 FETCHES the CHIEF, JEHOVAH for JACOB!
```

6 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. R36 is also found sometimes in URLs for encoding queries or other data. HTTP is supposed to be case-sensitive, but some sites don't adhere to the standard. Radix-64 is overkill in such circumstances and sucks up alternatives.

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 13. R36 is case-insensitive, by design, so we only need one set of pegs. For Radix-64, we need both upper and lower case. 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 7).

_					
	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
	Χ	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

6.1 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.
```

6.2 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

JAYW 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 sound-alikes.
- 72 can't be "can," because that's "H" in R36. Peg it as "key Noah" then try sound-alikes.

7 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	hallucination; 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
С	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	papa	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*
\mathbf{z}	zulu	122	Athenian	on home base* at bat
+		62	chain	
′/		63	chime	

7.1 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 tea
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 TOO tight.
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. 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.

8 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:

20ctopu\$Ha\$8Leg\$With0740

Finally, append the site name, perhaps obfuscated:

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

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

2Octopu\$Ha\$8Leg\$With0740OVERLEAF

Anyone who knows your personal salt prefix and your algorithm will probably break you. But bots will just see a random hash, different for each site you visit. They will have no idea that you are even using an algorithm

9 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 fortuitous 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, NIAGRA, UNASHAMED, HOTELMAN. Table 2 focuses on some hallucinations 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 (debugged Furst) in Section 12.9.

My daily practice includes another $156 == 3 \times 52 = 2 \times 78$ three columns of hallucinations for the 156 faces of a standard Tarot pack, obverse and reverse. See Section 11.

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 5, 6, and 7. I include redolance (sense of smell) because it's helpful to my memory. It might not work for you.

- 1. ALPHA The alpha LION (ARYEH) is in the giant, Disneyland TEACUP. He is in JAIL and the jailer has her BACK turned to us. 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 (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 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 cognates by a shift of the liquid consonants "1" 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 Roll-Royce DIESEL (smell it) automobiles with their camshafts poking out of their hoods (there are more Roll-Royces in India than in Britain). In the cockpit of one is a pilot (TAYYAS) up to his neck in PEA soup.
- 10. JULIET with her painted TOES and fingernails is leading a WOOD-SAGE (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-o'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 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 (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, whose picture is held by a giant TITAN robot. Smell Liz's perfume.
- 17. QUEBEC A very FAT premier of Quebec is lying 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.
- 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 it.
- 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 and pays his FARE inside.
- 21. UNIFORM A skeleton (SHAD) 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 it).
- 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 DANCING 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.

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
Ο	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	SHAD	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

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

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
c	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	shad	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
\mathbf{Z}	zulu	Athenian			DK	DEC 24	348

	Table 3: Date Hallucinations									
	NATO	ASCII	SUIT	DATE	DATE	DOY	DOY			
		HALLU	+ PIP		HALLU		HALLU			
A	ALPHA	jail	SA	JAN 01	New tie	1	tie			
В	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			
Η	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			
Ο	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			
Z	ZULU	base	HK	JUN 25	Altar kneel	176	education			

Table 4: Date Hallucinations (cont.)

	NIATO				DATE	DOV	DOV
	NATO	ASCII	SUIT	DATE	DATE	DOY	DOY
		HALLU	+ PIP		HALLU		HALLU
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
ĥ	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

10 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	11	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	•	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
				, 0

11 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 (9), 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

NATO	TAROT MAJOR	INCLUDING KNIGHTS REVERSE	TAROT MINOR REV	ALL REVERSE	TAROT MINOR	ALL OBVERSE
-11	REV			-l	CA	lancal ethance als
alpha	mag	illusions	sA	chaos	SA	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
рара	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	pΤ	fleeting success	PT	legacy
x-ray	knc	moody	рJ	uncommitted	PJ	diligence
yankee	kns	feckless	pQ	jealous	PQ	abundance
zulu	knp	workaholic	pK	indulgence	PK	prosperity

12 APPENDICES

12.1 Pegs and Hallucinations

I blogged out the basics of my peg method here:

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

12.2 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.

12.3 Building and Revising Chains

Take time building hallucinations 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.

12.4 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

12.5 Alternatives for Hex

12.5.1 Hex Method 1

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

010	SAWDUST	seduce	sideways	stays	South-Sea	assets
A	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:

5D00E OWL of WISDOM and SASSY STARING eyes.
 7AA HAWK, look SIDEWAYS left and SIDEWAYS right.
 C15C44 STAND TALL, SUDDEN HARRIER
 A5 and ASSIDUOUS OWL!
 93FA PUMA, STEALthy CITIZEN,
 DE6750 STAMP! STRIKE! SHAKE, LASSIE!
 B28A Don't HESITATE. ENOUGH, CITIZEN!

12.5.2 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 TALL; 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 hallucinations and extends to higher radices.

12.5.3 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?

12.6 Alternatives for Radix-64

12.6.1 Methods 1 and 2, Again

A method-1 (12.5.1) 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 0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz+/

- 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.

12.6.2 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.

12.6.3 The Supposed Machine Prefix.

Don't bother with the leading and trailing AAAA, assuming they're always present (TODO: check that!), leaving C3Nz aC1l 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
```

12.6.4 The Unique Parts

Now in groups of 3 or 4 quads:

```
STUFF the STILL for his ZERO-HOUR HURRAH
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

BxMe SATED, he SLIPS into ASSONANT WHIMsies
HUSHed SOMNOLENCE, SOULFUL SNOOZing
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!
```

12.6.5 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.

12.6.6 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 Z 026 a 027 b 028 z 052

The decimal digits go to their regular pegs, 0..9. This is a variation of the old-old-method (12.6.5).

12.7 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.

12.8 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.

12.8.1 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.
D 4	14	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.

12.8.2 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.

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

12.8.4 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
71	KT	CA	cat	black cat, green eyes	wax 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

12.8.5 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
91	PT	SA	Bat	baseball bat in the hands of a slugger	pizza pot bath
92	PN	S2	bean	Steak-size kidney bean steaming on a bed of lettuce	pod bun piano
93	PM	S3	beam	Huge timber in the low ceiling of a pub; hit your head on it	ebony bum opium
94	PR	S4	bar	The pub itself: crowded, loud, stuffy	puma pier bear
95	PL	S5	ball	Baseball: stitches, tacky leather, autographs	opera pool belly
96	PJ	S6	badge	Heavy, bronze sheriff's badge pulling your clothes	bowl bush pasha
97	PK	S7	back	exposed back of ballerina	peach beak book
98	PF	S8	beef	Steak dinner (don't confuse with bean)	bug beehive buffet
99	PP	S9	pipe	Rene Magritte's famous painting; or Einstein	puff babe bobby
911	PTT	SJ	potato	baked potato with all the fixin's; see 92, 98	pope habitat beatitude
912	PTN	SQ	baton	relay race; pass the baton	pas de deux beatnik bedouin
913	PTM	SK	podium	lecturer or preacher at the podium	petunia badminton speedometer epidemic

12.9 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 discarding the remainder

1y = 22 + 1 = 0

1y = 21 = 0 + 1 = 0
```

Today is Saturday.

13 All Pegs and Sound-Alikes

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

TODO: My personal permanent peg words are first in each block and in all-caps. My short-list of preferred sound-alikes are in the first row of each table.

I don't (yet) have a memorized peg for every number, just for the most useful ones. It takes time to come up with good pegs. It's a quadratic process because I pick pegs that don't collide visually with the ones I already have. 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 because they might incorrectly recall 64 at speed.

00	SAUCE	icehouse	oasis	sissy	sass	seesaw
	assess	assize	houses	sassy	say-so	seas
	seize	size				
01	SOD	Swede	acid	aside	asset	city
	east	haste	host	sad	seat	seed
	seedy	settee	side	sight	sit	site
	soot	sooth	sot	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	sum	semi	swami	psalm	asthma
	assume	same	seem	some	somehow	swim
04	SOAR	sewer	seer	soiree	sir	sour
	czar	eyesore	hawser	hussar	sore	sorrow
	sorry	wiser	zero			
05	SAIL	swallow	seal	slaw	sleigh	weasel
	assail	cell	easel	easily	hassle	hazel
	sale	sell	sill	silly	slay	slow
	sly	soil	sole	solo	soul	whistle
06	SAUSAGE	sash	swatch	sage	ice-show	siege
	assuage	ice-age	sashay	sedge	sewage	such
	switch	usage				
07	SACK	ski	sky	scow	sake	sea-cow
	ask	assegai	hoosegow	housing	husky	icing
	sago	seek	sick	soak	sock	soggy
	squaw	suck	whiskey	wise-guy		
08	SAFE	Sufi	sofa	sieve	housewife	savoy
	ossify	save	savvy	suave		
09	SAP	spy	wasp	wisp	asp	soup
	espy	soap	sob	sop	spa	subway
	swab	swap	sweep	swipe	swoop	zebu
	zip					

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

020	SENSE	sneeze	sinus	seance	sunset	census
K	easiness	essence	iciness	science	since	sincere
	sinister	sinus	snooze			
021	SNOT	saint	sand	cent	senate	synod
L	Sunday	ascent	assent	sandal	sanity	scent
	sent	sentiment	snit	snoot	snout	sonata
	sonnet	sound	sundae	swindle	zenith	
022	SIGN-ON	assonance	sea-onion	snow-knife	synonym	asinine
M					, ,	
023	CINNAMON	snowman	cinema	sea-anemone	cyanamide	so-numb
N	wisenheimer				•	
024	SINNER	sonar	senior	snore	scenery	sunrise
O	snare	sneer	snort	snarl	sonorous	
025	SENILE	snell	snail	sunlamp	sunlight	
P				•	C	
026	SIGNAGE	cinch	singe	snatch	sensual	snitch
Q	ascension	censure	century	snow-job	snowshoe	sunshine
027	SINK	snack	snake	snick	cynic	zinc
R	isinglass	scenic	sea-anchor	sneak	snug	synagogue
028	SNUFF	sniff	snafu	sinful	sniffle	saw-knife
S	snowflake					
029	SNAP	snob	snip	snipe	snoop	snub
T	sign-up	snowball	synopsis	sunup	•	
				-		

030	SAMSON	Siamese	seamstress	semester	semisweet	swimsuit
U	osmosis	sea-mouse	semicircle			
031	SEMITE	housemaid	cemetery	smut	smith	summit
V	assumed	smite	smooth	something	summed	symmetric
032	SALMON	semen	seaman	seminary	cement	yes-man
W	awesomeness	iceman	sameness	semantics	somnolent	summon
	wisewoman					
033	SEMIMONTHLY	same make	same model	same month	same man	same mood
X	osmium	semi-material	semi-member	semi-metal	semi-mobile	semi-moist
	semi-motile	semi-motor				
034	SAMURAI	summer	simmer	swimmer	smear	summary
Y	smart	smirk				
035	SAWMILL	smile	smell	small	simile	sea-mile
Z	assimilate	seamless	seemly	similar		
			J	Jiiiiiai		
036	SMASH	smudge	smooch	smidgen	so-much	
036 a			<i>y</i>	smidgen	so-much	
			<i>y</i>		so-much	swimming
a	SMASH	smudge	smooch	smidgen		swimming
a 037	SMASH	smudge	smooch	smidgen		swimming
037 b	SMASH SMACK	smudge smoke	smooch sumac	smidgen smuggler	seeming	swimming
a 037 b 038	SMASH SMACK	smudge smoke	smooch sumac	smidgen smuggler	seeming	swimming
a 037 b 038 c	SMASH SMACK SEMAPHORE	smudge smoke samovar	smooch sumac symphony	smidgen smuggler semifinal	seeming semiformal	

040	SERIES	sea-horse	serious	sewers	source	Circe
e						
041	SARDINE	sardonic	sard	sort	hazard	wizard
f	assert	assort	certain	seaward	seaworthy	sortie
	swarthy					
042	SARIN	siren	serene	Syrian	serenade	surname
g	surrender	sworn				
043	SWARM	sermon	serum	ceremony	ceramic	
h						
044	SEARER	zero-hour	sorority	sour-herring	swearer	
i						
045	ISRAEL	cereal	serial	sirloin	seraglio	sorrel
j						
046	SARGE	search	serge	surge	surgeon	sergeant
k	sea-urchin	surcharge				
047	circuit	sarcasm	sauerkraut	sour-cream	circus	sirocco
1	circle	circumstance	sarong	zircon		
048	SURF	serf	surface	service	serve	servant
m	servile	sorrowful	surfeit	survey	survive	
049	SERPENT	syrup	surplice	surplus	Cerberus	surprise
n	sauerbraten	sourpuss	surpass	usurper		

050	SOLSTICE	sales	slice	sluice	solace	solicitor
O	sal-soda	solus	solos	useless		
051	SALAD	salt	salute	slate	sled	sleet
р	assault	household	isolate	ocelot	oscillate	silhouette
_	slaughter	slide	slight	slit	slot	solid
	solitaire	sultan	zealot			
052	SEA-LION	saloon	sea-lane	sealant	saline	slain
q	aslant	cylinder	silent	slander	slant	slender
	sullen	swollen	zillion			
053	SALAMANDER	slam	slim	slime	slow-motion	slumber
r	Islam	asylum	cell-mate	solemn	soul-mate	
054	SAILOR	salary	seller	sealer	slayer	solar
s	celerity	celery	cellar	whistler		
055	CELLULOID	sea-lily	slowly	slyly	soliloquy	cellular
t						
056	SOLUTION	slouch	sludge	slash	slush	zoology
u	isolation					
057	SILK	slake	slang	sling	sleek	sea-legs
\mathbf{V}	ceiling	select	silica	slack	sulky	
058	SALVE	salvo	saliva	salvage	salvation	slave
W	self	silver	sleeve	sliver	solve	soulfood
	soulful	sulfur	sylph			
059	SLIPPER	slab	slap	sleep	slip	sailboat
x	celebrate	celibacy	sloop	slop	slope	slowpoke
		-				_

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060	SAGES	sea-chest	sieges	switches	sash-saw	sashes
y	suggest					
061	SAGITTARIUS	siege-tower	sash-weight	switch-hitter	associate	sachette
\mathbf{z}	satiate	sagittal	satched			
062	SWITCH-KNIFE	session	sash-window	sedge-hen	sea-change	scission
+	sashoon	seashine	suasion	cession		
063	SASHIMI	satchem	switchman	sea-chime	sea-chum	
′/						
064	SUTURE	seashore	saw-shark	saw-sharpener	seizure	sojourn
064	SUTURE switcheroo	seashore	saw-shark	saw-sharpener	seizure	sojourn
064		seashore seashell	saw-shark social	saw-sharpener sash-line	seizure sage-oil	sojourn switch-line
	switcheroo					,
065	switcheroo SATCHEL	seashell	social	sash-line	sage-oil	
065	switcheroo SATCHEL ASSOCIATION	seashell sage-age	social cheese-aged	sash-line switch-shift	sage-oil wise-judge	,
065 066 067	switcheroo SATCHEL ASSOCIATION SAGE-GRASS	seashell sage-age siege-coin	social cheese-aged sash-cord	sash-line switch-shift	sage-oil wise-judge	,
065 066 067 068	switcheroo SATCHEL ASSOCIATION SAGE-GRASS SWITCHOVER	seashell sage-age siege-coin sedge-fly	social cheese-aged sash-cord switch-ivy	sash-line switch-shift switchgear	sage-oil wise-judge switch-cane	switch-line

070	SEX	saxophone	seacoast	success	Saxon	squeeze
	sea-goose	six				
071	SCOT	skate	scat	sect	skeet	squid
	ascot	scatter	scout	scuttle	sea-god	skid
	skit	socket	squatter	waistcoat		
072	SCAN	scanty	schooner	sequin	signal	skin
	askance	scandal	scoundrel	sea-gown	second	sicken
	sickness	zucchini				
073	SCHEME	sycamore	Eskimo	scum	sagamore	skim
	scumbag	-				
074	CIGAR	scar	screw	skirt	square	squire
	Oscar	escarole	escort	escrow	ice-cream	scarce
	scare	scarlet	score	scrap	scrawl	scream
	screen	secret	secretary	secure	singer	squirt
	whisker					
075	SKULL	scale	scallop	school	scallion	scull
	cycle	icicle	ossicle	scalp	scholar	sculptor
	sea-gull	sequel	sickle	single	skeleton	skill
	squall	squill	suckle			
076	SKETCH	squash	sagacious	Scotch	escutcheon	
077	SUKIYAKI	seeking	sea-king	seaquake	squeak	squawk
	asking	easygoing	skeg			
078	SKIFF	scuffle	scuff	scaffold	scofflaw	scavenger
	scoff					-
079	SKIP	scab	scoop	scope	ski-boot	icecap
	skeptic	squib	squabble	escapade	escape	housekeeper
						_

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

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

0	SAW	ice	house	hose	haze	Z00
	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	honey	knee	ion	win	wine
	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	ammo	ham	hem	womb	Emmy
	May	may	mow	maw	aim	him
	hum	home	hymn	whim	whom	
4	RAY	roe	arrow	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	ale	awl	aisle	eel	hole
	Yale	Yule	ail	all	alley	allow
	alloy	ally	aloha	ell	hail	hall
	halo	haul	heal	heel	hell	hello
	hill	hollow	holy	howl	hull	ill
	isle	lay	lei	lie	low	lye
	oil	ole	olla	owl	wail	wall
	wallow	waylay	whale	wheel	while	whole
	will	willow	wool	yawl	yellow	
6	JAW	witch	ash	edge	jay	watch
	Asia	Jew	Joe	age	chew	chow
	each	etch	hash	hatch	hedge	hitch
	huge	hush	hutch	issue	joy	jus
	shah	she	shoe	show	shy	wage
	wash	wedge	which	wish	woosh	
7	KEY	oak	yak	hawk	hockey	wig
	Hawkeye	IQ	Ike	ache	aggie	ago
	ague	awake	caw	coo	cow	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	yoga	yoke	young	
8	FEE	view	hi-fi	hive	ivy	oaf
	ave	few	foe	half	halfway	have
	heave	heavy	hoof	huff	of	off
	via	vie	vow	waif	waive	wave
	weave	wife				
9	PEA	hippie	buoy	bow	bay	boa
	abbey	ape	be	beau	bee	bough
	boy	buy	by	bye	ebb	epee
	happy	heap	hip	hobby	hobo	hoop
	hop	hope	hubby	obey	oboe	paw
	pay	pew	pie	web	weep	whip
	whoopee	wipe				

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	date	tattoo	tidy	toad	tooth
	adit	audit	dad	data	dead	death
	debt	deed	deity	diet	dot	dote
	doubt	duty	edit	idiot	oddity	outwit
	teddy	thought	tide	tight	tithe	today
	tutu	without				
12	TAN	Dane	dune	tuna	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	duke	duck	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	toffee	dove	diva	dive	thief
	TV	daffy	deaf	defy	edify	tiff
	tough	tuff				
19	TAP	tabby	toupee	tip	tub	dope
	adobe	dab	daub	debut	deep	depot
	dip	doughboy	dupe	tab	taboo	tape
	tepee	top	tube	tup	type	

20	NOSE	anise	noose	niece	ounce	news
	nice	noise	ensue	hence	hens	highness
	once	ones	onus	uneasy	wins	wines
21	NET	knight	knot	aunt	nude	nut
	Hindu	India	and	annoyed	ant	ante
	anti	end	endow	gnat	hand	haunt
	hind	hint	hound	hunt	into	knead
	knit	naught	neat	need	night	not
	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	honor	winery	whiner	winner	owner
	anywhere	inhere	inure	narrow	near	newer
	nor	noria	nowhere	unaware		
25	NAIL	narwhal	Nile	inlay	in-law	unholy
	anal	annual	annul	inhale	kneel	knell
	knoll	newel	newly	nil	null	only
26	NICHE	notch	nudge	haunch	hinge	inch
	enjoy	gnash	hunch	no-show	unhitch	wench
	winch					
27	NECK	Inca	nock	ink	hunk	nook
	Yankee	awning	inning	knack	knock	nag
	nick	nog	unhook	unique	wink	
28	NAVY	nova	knave	knife	nephew	naive
	enough	envoy	envy	inveigh	nave	unify
29	NAP	nib	nub	knob	nape	nappy
	Niobe	honeybee	nab	neap	nip	unhappy

30	MASS	mace	maze	hummus	mice	moose
	Messiah	aims	amass	amaze	amiss	amuse
	humus	mess	mews	miss	moss	mouse
	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	mane	hymen	mine	minnow	moon
	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	Mary	mayor	merry	homer	emir
	amour	hammer	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	mica	hammock	mocha	Mecca	Mohawk
	amigo	amok	among	make	meek	mock
	muck	mug	omega			
38	MUFF	mauve	Mafia	miff	move	movie
	oomph					
39	MAP	hemp	hump	imp	ump	amoeba
	amp	imbue	maybe	mob	mop	mope
	myopia					

-10	DACE		•			<u> </u>
40	RACE	racy	raise	rase	raze	rice
	rise	rose	rouse	ruse	arouse	erase
	eros	erose	harass	hearse	hearsay	heresy
	hers	hoarse	horse	heiress	iris	ours
	warehouse	worse	Warsaw			J
41	RAT	rate	radio	raid	reed	red
	read	ready	rid	ride	road	rod
	root	rot	route	rut	rite	riot
	right	arid	aright	art	award	aorta
	earth	errata	erode	hard	hart	heart
	hearth	herd	hereto	hoard	horde	horrid
	hurt	hurried	ward	wart	word	worth
	wrath	wreath	wreathe	write	yard	worried
	weird					
42	RAIN	rein	reign	renew	run	ruin
	Rhine	rune	rhino	Reno	arena	Aryan
	arraign	earn	hernia	heroin	heroine	horn
	iron	irony	Irene	Orion	urn	worn
	warn					
43	RAM	rim	rhyme	ream	room	rime
	rum	roam	Rome	Romeo	arm	army
	aroma	harm	harem	warm	worm	
44	REAR	rare	roar	rower	arrear	aurora
	error	harrier	harrower	horror	warrior	worrier
	wearer	hearer	orrery			
45	RAIL	rally	railway	real	reel	relay
	rely	rill .	roil	role	roll	royal
	rule	earl	early	hourly	hurl	oral
	oriole	aerial	whirl	whorl	yearly	
46	RASH	rage	ratio	Rajah	reach	roach
	rich	ridge	rouge	ruche	rush	rushee
	Russia	arch	harsh	Irish	orgy	urge
	wretch					
47	RAKE	rack	rag	reek	rock	ring
	rogue	rook	rug	rig	ragout	airing
	ark	argue	arc	ergo	hark	hearing
	herring	heroic	work	wreck		
48	REEF	raffia	review	revue	riff	rife
	roof	rough	rave	ruff	rive	rove
				1 (
	arrive	aerify	horrify	wharf		
49	ROPE	rap	rape	reap	repay	rip
49				reap rob	repay rub	rip robe
49	ROPE	rap	rape	reap		

50	LACE	lass	lassie	lazy	lasso	lease
	lees	less	lessee	loose	lose	loss
	louse	luce	Lucy	alas	alehouse	allies
	always	also	alias	Eliza	else	
51	LOT	lad	lathe	late	lady	lath
	let	lid	lead	light	load	loath
	loud	loot	lido	lout	lute	allowed
	allot	allude	aloud	although	allied	alit
	alight	elate	eyelid	elite	halt	health
	hold	hilt	holiday	Hollywood	helot	islet
	old	wild	wallet	wealth		
52	LANE	lawn	lean	lien	line	lion
	loan	loin	loon	alien	alone	hellion
	Halloween	woolen				
53	LIME	lame	lama	lamb	lima	lime
	Limey	limb	loom	loam	alum	elm
	haulm	helm	helium			
54	LAIR	layer	lawyer	leer	liar	lower
	lorry	lure	lyre	allure	healer	holler
	Holy-Year	oiler	whaler			
55	LILY	lisle	loyal	lowly	Loyola	loll
	lolly	lull	lulu	holy-oil	hallelujah	hula-hula
	ill-will	oil-well	Walhalla	whale-oil		
56	LASH	latch	leash	liege	leech	ledge
	lodge	loge	lush	allege	hellish	ullage
	Welsh					
57	LAKE	lack	lackey	lag	lac	league
	leak	leek	leg	lick	like	lock
	log	long	look	luck	lug	lung
	loco	low-key	alike	along	ailing	elk
	hillock	hulk	hollyhock	ilk	whaling	
58	LEAF	lava	laugh	leave	life	live
	loaf	love	levee	levy	luff	alive
			alirra	welloff	wolf	
	aloof	elf	olive			
59	LAP	lab	leap	lip	lob	lobe
59						lobe alp

	CLIECC	1	1 .	1	1 .	1 .
60	CHESS	cheese	chassis	chase	chaise	choice
	choose	ashes	ages	Jaycee	Jewess	joyous
	juice	wages	schuss			
61	JET	aged	chat	chateau	cheat	cheetah
	chit	chute	jade	jetty	jot	judo
	jute	shad	shade	shadow	sheath	shed
	sheet	shoot	shot	shout	shut	washed
	widget					
62	CHAIN	China	Jane	John	June	Shawnee
	chin	chine	gin	hygiene	join	ocean
	shine	shown	shun	widgeon		
63	CHIME	Jim	chamois	chum	gem	gym
	jam	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		, , ,	,	,	
67	CHALK	jack	sheikh	chick	cheek	choke
C	Django	aging	check	chic	chuck	chug
	etching	itching	jingo	jock	jockey	joke
	jug	shack	shag	shake	shako	shock
	shuck	washing	watching	wishing		
68	CHEF	chief	Chevy	sheaf	chaff	chive
D	Java	Jehovah	achieve	chafe	jayvee	jiffy
	jive	shave	shove	wash-off	, ,	•
69	CHIP	jib	jeep	sheep	ship	Job
E	GP	chap	chapeau	cheap	chop	chubby
	gyp	jab	jibe	job	shabby	shape
	shop	,	,	,	J	1
	1					

	CACE			1 •		
70	CASE	gas	goose	kiss	ox	eggs
F	accuse	acquiesce	ax	cause	causeway	chaos
	cozy	cuss	gauze	gaze	guess	guise
	guys	hex	hoax	quasi	wax	
71	CAT	kit	kid	co-ed	goat	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	coin	gun	queen	cone	cane
Н	acne	again	agony	awaken	canoe	coon
	gain	gown	guinea	icon	keen	kin
	oaken	wagon				
73	CAM	acme	calm	cameo	coma	comb
I	come	comma	gam	game	gum	hokum
	oakum	wigwam				
74	CAR	accrue	acquire	acre	agar	agree
J	anger	care	carry	choir	coheir	cohere
	core	cower	crew	crow	cry	cur
	cure	curry	eager	eagre	ecru	euchre
	gear	gory	grey	grow	guru	hiker
	hooker	hugger	occur	ogre	okra	quarry
	queer	quire				
75	COAL	call	clay	coil	cool	coolie
K	collie	clew	claw	clue	gale	gall
	gal	galley	glee	glow	glue	goal
	gully	Gaul	kale	keel .	keyhole	kill
	quail	quill	eagle	equal	haggle	hackle
	heckle	ogle	ugly	weekly		
76	CAGE	cash	catch	cache	cachet	cashew
L	coach	couch	gash	gage	gauge	gush
	gauche	gaucho	ketch	kedge	hoggish	hogwash
	waggish				_	
77	CAKE	calk	caulk	cock	coke	cook
M	cacao	cuckoo	cookie	gag	gangway	gang
	gong	going	goo-goo	gook	kaka	kayak
	khaki	kick	king	keg	quack	quake
	quick	aching	agog			
78	CUFF	calf	cave	cafe	coffee	cough
N	cove	covey	gaff	give	goof	guff
	guffaw	guava	quaff	agave		
79	CAP	cab	cabby	cape	cop	cope
O	coop	copy	cowboy	cub	cube	cup
	gab	guppy	gap	gape	keep	quip
	hang-up	hiccup	occupy	okapi	wickiup	wicopy

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

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

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

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
	destruct	distance	distaste	distinct	distinguish	distract
	distress	distribute	district	distrust	disturb	dust
	atheist	attest	audacity	outside		
102	DOZEN	decent	descent	design	dishonest	disinclined
f	disinfect	disinterest	disown	dissent	dissonant	dizziness
	Whitsunday	Docent				
103	TWOSOME	theism	deism	decimal	disembark	dismay
g	dismember	December	dismiss	dismount	dissemble	dissimilar
	atheism	decimeter	decimate			
104	DOWSER	dicer	thesaurus	desert	dessert	deserve
h	desire	disarm	disarrange	discern	dishearten	disorder
	disregard	disreputable	disroot	dissertation	disrobe	disrupt
	douser					
105	DIESEL	tassel	dazzle	desolate	disillusion	dislike
i	dislocate	dissolve	docile	deciliter	disloyal	white-sale
106	WOOD-sage	dosage	decision	discharge	dissuasion	autosuggestion
j						
107	TUSK	task	desk	disk	discolor	discomfort
k	disclose	disconnect	discontent	discord	discount	discourage
	discourse	discover	discrete	discriminate	discuss	disgrace
	disguise	disgust	disquiet	dusk	outskirts	doeskin
108	ADHESIVE	tea-sieve	theosophy	deceive	decipher	disaffect
1	disavow	disfigure	disfavor	satisfaction		
109	TEASPOON	thespian	toss-up	despot	despair	deception
m	decibel	despite	despond	disabled	diaspora	disappear
	disappoint	disapprove	disciple	disobey	dispatch	dispense
	dispel	disperse	display	displace	displease	disposal
	disposition	dissipate				

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
	deteriorate	determine	detract	detriment	daydreamer	diatribe
	auditor	editor	headwater	hot-water	stutter	
115	TITLE	tattle	tittle	tidal	tootle	titillate
s	total	dawdle	doodle	dateline	deadline	dead-letter
	deadly	detail	thoughtless	state-line		
116	DEATHWATCH	detach	death-wish	dotage	hot-dish	dead-issue
t						
117	HOT-dog	tie-tack	toothache	dating	dedicate	deduct
u	detect	detective	tidings	idiotic		
118	AUTO-da-fe	tutti-frutti	thoughtful	dative	dutiful	dutyfree
			O			
v	deadfall	additive	auditive	sedative		-
			0	toothpick	tidbit	toothbrush
v	deadfall	additive	auditive		tidbit	toothbrush

120	DANCE	tinsel	tenacity	tennis	tense	thence
x	tonsil	dense	dunce	ad-nauseam	Adonis	Athens
	audience	haughtiness	dynasty	utensil	whiteness	witness
	sadness	· ·				
121	DOUGHNUT	tent	taint	taunt	tenth	tendon
y	tend	thunder	tint	tender	twenty	TNT
	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
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	team-song	Thames	theme-song
	damask	damsel	domestic	domicile	demise	admissible
	atomizer	atmosphere	utmost			
131	TOMATO	tamed	tom-tom	timid	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			
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	_

140	TEDDACE	- Lui arrala	too wooo	thrice	Laura	thirst
140	TERRACE	tricycle	tea-rose		torso	
	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	Ž			
		J				

145	TRAIL	trial	trawl	thrill	trellis	trowel
	trolley	twirl	truly	truelove	tarheel	trilogy
	darling	derail	drilĺ	droll	door-lock	water-hole
	water-lily	starling	astrologer	sterile	sterling	stroll
	Waterloo		C		· ·	
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	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
450	headlong	outlook	wedlock		. 11	
158	TAIL-fin	telephone	television	twelve	tell-off	delve
450	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		,	O	
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	tongs
	things	tea	cozy	decks	dachshund	dexterity
	doghouse	dogs	attics	ethics	outcast	suitcase
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					
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	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		3.3.3.3.5.5.5	
191	DEBUTANT	teapot	tepid	tiptoe	top-hat	top-dog
	topdrawer	towpath	two-bit	debate	debit	depth
	deputy	adapt	adept	adopt	output	hotbed
	outbid	stupid	1	1	1	
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		Ü		•	
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	
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				

210	NUDIST anticipate induce undisturbed	notice antiseptic industry	Nazi enthusiasm hind-sight	nowadays entice handsaw	no-dice indecent undeserved	antacid indistinct undesirable
211	UNTIED	nitwit	nudity	night-duty	noted	needed
	antitrust	annotate	antidote	entity	entitle	handed
	haunted	handout	indeed	knighthood	undoubted	untidy
	united	undated	want-ad	-		
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	windowshade
	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	handbill	handbook
	handball	inaudible	independent	inedible	knee-deep	knotty-pine
	windpipe	sandbox	sound-box			

220	NONCE	nonsense	nonuse	nainsook	ananas	announce
	annoyance	enhance	onions	onionskin	unanswered	
221	UNKNIT	noontime	ninth	nineteen	ninety	nondenominational
	nontechnical	anoint	innuendo	know-nothing	unintelligible	unintentional
	unwanted	union-dues				
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	nonconformist
	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

240	NURSE	nursery	neurosis	nearsighted	honors	onerous
	owners	unrest	unhorse	sonorous	sunrise	
241	NARRATOR	neurotic	nard	north	inarticulate	inert
	inheritance	inroad	inward	onward	unearth	unhurt
	unredeemed	unworthy	unwritten			
242	NEURON	no-iron	no-run	nearness	narrowness	unearned
	unworn	unwarned	unwarranted			
243	NORMAN	norm	normal	near-miss	Norma	enormous
	narrow-minded	unarmed	innermost			
244	HONORARY	nearer	narrower	unrewarded		
245	NARWHAL	narrowly	nearly	New-World	enroll	gnarl
	knurl	one-reel	unrelenting	unreliable	unruly	unreal
	unroyal	snarl				
246	ENERGY	narration	nourishment	Norwegian	enrage	enrich
	inertia	onrush	ownership			
247	NARCOTICS	nark	Newark	New-York	anarchy	on-record
	honoring	unrecorded	unrequited	unerring	unrecoverable	
248	NIRVANA	nerve	no-refund	enervate	unravel	unrivaled
	unrefined	unruffled				
249	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	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 encase inquest snacks	negus inaccessible unaccustomed	next inexcusable unexpected	nexus inexpensive unexplored	knocks inexperience unquestioned	annex innocuous Yankees
271	necktie nicotine iniquity uncaught	naked anecdote honky-tonk	negative enact hunky-dory	nocturnal inequitable knockout	nugget inquietude uncut	nectar inactive ungodly
272	nickname inconceivable inconvertible	knickknack incongruous unacquainted	noggin inconsiderate unconcerned	knock-knee inconsistent unkind	encounter inconsolable sunken	henequen inconvenience
273	newcomer honeycomb incumbent	encamp income uncomfortable	encomium incomparable oncoming	encumber incompatible unicum	enigma incompetent unkempt	encompass incomplete
274	nacre Niagara engrave incorrect knocker	nagger nicker hunker increase ungraceful	neckerchief niggard inaccurate incur unguarded	Negro anchor inaugural inquire unicorn	neck-rein encore incarnate knackwurst winker	necrology encourage incorporate knickerbockers winegrower
275	nickel no-cal include uncle	necklace nucleus inequality unequal	neckline ankle inkling wine-cooler	neglect enclose inoculate wineglass	negligee incalculable knuckle	niggle incline unclaimed
276	negation encage	negotiate engage	nicotiana inaction	noxious incautious	anguish unction	anxious
277	nagging ongoing	necking ungag	nogging winking	honey-cake sinking	inking synagogue	knocking
278	no-cavity unequivocal	no-caf	encage	knock-free	knock-off	uncover
279	hanky-panky knockabout	incapable uncouple	innkeeper unequipped	incubate unoccupied	inkpot	kneecap

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				<u> </u>	
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		

330	mammas	maims	mayhems	memos	memsahib	mimes
	mimeses	mimosa	momus	mummies		
331	maimed	mammate	mammatocumulus	mammoth	mayhemmed	mimetic
	Mohammedan	Muhammad	mummy-tomb	myomata	homemade	imamate
	ohmmeter		•	•		
332	mammon	memento	Miamian	moment	momentum	semimonthly
333	mimamsa	mamamu	mamma-mia	semimemorable		
334	memorial	memory	memoir	memorandum	maimer	mimer
	mummer	mammer	mammary	homomorphy		
335	mammal	my-mail	mamluk	mamelon	hamamelis	mammillary
336	home-mission	home-match	mumchance	mummichog		
337	mammock	mimic	mimeograph	maiming	mumming	mummy-case
	homemaker			_		-
338	Memphis	home-movie	humhum-fabric	mummify	mammiform	
339	mamba	mambo	member	mumps	mumble	membrane
	memo-pad	mummy-bag	mumbo-jumbo			

340	mercenary	mercer	mercy	morass	morose	morsel
	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			
351	MALT	melt	mold	omelet	smelt	mulatto
	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	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	
			,		1	

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	majolica	Magellan	matchless	matchlock	matchholder	mutual
366	magician	muchacha				
367	magic	mashing	meshing	matching	Michigan	
368	midge-fly	home-chef	semishift			
369	matchable	matchbook	matchbox	matchboard	match-up	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

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

410	radius	raticide	reduce	righteous	roadster	roads
	Rhodes	ritzy	arduous	artisan	artist	yardstick
411	radiate	rat-a-tat	red-hot	redoubtable	redhead	redtop
	redwood	redoubt	rotate	rutted	erudite	airtight
	aridity	hardwood	hardhead	hardtop	heredity	irritate
	certitude					
412	rattan	radiant	readiness	redness	retain	retinue
	red-neck	red-nose	roadnet	rotten	ruddiness	rudeness
	routine	ardent	earthen	harden	hearten	ordain
	warden					
413	radioman	radium	radome	ready-made	redeem	roadman
	rhythm	rudiments	yardman			
414	radar	rather	reader	raider	redress	reiterate
	retard	retire	retort	retrace	retract	retreat
	retrieve	return	rider	rioter	rotary	Rotarian
	rudder	air-to-air	ardor	artery	hairdresser	hoarder
	orator	order	wardrobe	aerodrome	writer	
415	ratline	rattle	radial	readily	redial	redolent
	redleg	retail	retaliate	retell	riddle	ruthless
	airedale	artless	earthling	hardly	heartily	heartless
	heartland	hurdle	hurtle	ordeal	whortleberry	
416	radish	radiation	retouch	ruttish	artichoke	erudition
	hardship	heritage	hard-shell	irritation	yardage	road-show
417	radioactive	radiocast	radiograph	radical	reading	redact
	redcap	red-carpet	redcoat	red-oak	ridicule	riding
	article	articulate	earthquake	erratic	heartache	wording
	writing	surtax				
418	radiophoto	radio	wave	ratfish	ratify	redfin
	reedfish	artful	artifact	artificial	heartfelt	hors-d-oeuvre
	hurtful	write-off	certify			
419	ratable	rataplan	ratproof	redback	redberry	redbreast
	redouble	rutabaga	air-tube	heartbeat	heartbreak	hardpan
	hartebeest	irritable	yardbird	wiretap		

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
		- ·	. 0		~	-

480	refuse	reviews	revise	revisit	airwaves	harvest
400						
	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
	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	rabble	rape-oil	rebel	rebuild	repeal	repel
	replace	replant	replenish	replete	replica	reply
	repulse	ripple	rubble	ruble	rubella	airplane
	horrible					
496	rapacious	rapture	rubbish	rupture	repatch	arpeggio
	eruption	harp-shell	herbage			
497	rebuke	repugnance	repack	roebuck	rope-key	rubicon
	rubicund	Arabic	Areopagus	harbinger	wrapping	yearbook
498	rebuff	repave	riboflavin	rope-off	rubify	rub-off
	herbivore					
499	republic	republish	repeople	rip-up	air-pipe	earbob
	orb-web	war-baby				

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					

	1	1	1 1.	1 1	11 1 .1	1 .
510	lattice	lettuce	ladies	lads	lighthouse	lotus
	loudspeaker	Lao-Tse	eldest	halitosis	oldest	holidays
	waltz					
511	latitude	lighted	loaded	la-di-da	low-tide	allotted
	altitude	eluded	halted	holdout	old-time	well-to-do
	wilted	yuletide	solidity	solitude		
512	Latin	latent	laydown	lieutenant	litany	leaden
	lighten	lightning	lowdown	oldness	old-wine	well-done
513	lithium	leitmotif	loudmouth	light-meter	light-minded	litmus
	altimeter	allotment	illtimed	ultimate	yuletime	well-timed
	seldom					
514	ladder	lateral	lather	latter	leader	leather
	letter	leotard	literal	literature	litter	loiter
	looter	lothario	lottery	louder	Luther	altruism
	alderman	altar	alter	elder	halter	holder
	holy-water	older	ulterior	yielder		
515	ladle	lately	ladylike	ladylove	lethal	leadless
	little	wall-to-wall	wildlife	wildly	yellowtail	
516	ladyship	late-show	latish	Low-Dutch	old-age	oldish
	old-shoe	salutation				
517	leading	latecomer	litigant	lithograph	loading	ludicrous
	altogether	Eolithic	holding	welding	wildcat	yielding
	sliding					,
518	ladyfinger	leadoff	lightface	lightfast	lightfingered	light-foot
	healthful	holdover	illadvised	oldfangled	old-fashioned	oldwife
	well-advised	wildfire	wildfowl	Ü		
519	ladybird	ladybug	laudable	leadback	lead-up	lead-pipe
	let-up	hilltop	holdback	hold-up	wildebeest	

520	lance	lens	lioness	linseed	lonesome	lunacy
520		alliance	aliens	allowance	holiness	lunacy illness
	lyonnaise	amance	anens	anowance	nonness	nmess
	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	O	•			O
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 elms	limbs Hallowmas	limousine slums	looms	low-mass	almost
531	lamdan ill-mated	limit well-made	a-la-mode	almighty	elm-tea	helmet
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 hilarious	liars	lawyers	lower-house	walrus	wheelhorse
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 lodging	oil-shale logician logic	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	<u> </u>		Ü	
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					
579	legbar	leg-break	leg-pull	leucoplast	likable	lockup
				helicopter		

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
			ale-pub	Ali-Baba		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

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610	chiteaus	jets	jetsam	jettison	Judas	shades
	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			,
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	•		Ç	

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 shames	chimes shamus	chums	gems	James	jams
631	geometry age-mate	jammed	jamwood	jimdandy	jimmyweed	ashamed
632	chimney	chow-mein	G-man	Gemini	geminate	gymnasium
	gymnast hush-money	shaman wash-woman	showman watchman	ashman	hegemony	hatchman
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	gem-fruit	gemmiferous	shamefaced	shamefast	shameful	sham-feed
	chamfer	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				

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650	chalice	chills	jalousie	jealousy	jailhouse	jewels
	joyless	Julius	shells	shoelace	ageless	socialism
651	child	gelatin	gelid	jilt	jolt	shallot
	shelter	shield	shoulder	age-old	agility	
652	challenge	chalone	chilliness	chow-line	jawline	jillion
	jolliness	julienne	shalloon	shallowness	show-line	echelon
	wash-line					
653	chalumeau	chillum	schalmei	schlemiel	shalm	shalom
	shellman	gelometer				
654	chiller	jailer	jelerang	jewelry	jollier	shallower
	sheller	shalier	shellier	shellwork	ashlar	
655	jellyleaf	jellylike	jollity	shale-oil	shallowly	shell-hole
		1 11 101	agilely	shillelagh		
	shell-less	shell-like	agnery	Simelagii		
656	shell-less geology	shell-like shallowish	shellshake	shell-shock	shilly-shally	hagiology
656 657			0 ,		shilly-shally shell-egg	hagiology shelling
	geology	shallowish	shellshake	shell-shock	, , , , , , , , , , , , , , , , , , ,	
	geology Shalako	shallowish shealing	shellshake shellac	shell-shock shellcracker	shell-egg	shelling
657	geology Shalako shellycoat	shallowish shealing shilling	shellshake shellac Shylock	shell-shock shellcracker age-long	shell-egg gelignite	shelling hatchling
657	geology Shalako shellycoat jellify	shallowish shealing shilling jellyfish	shellshake shellac Shylock jollify	shell-shock shellcracker age-long	shell-egg gelignite	shelling hatchling
657	geology Shalako shellycoat jellify shellflower	shallowish shealing shilling jellyfish shell-vault	shellshake shellac Shylock jollify shelver	shell-shock shellcracker age-long shelf	shell-egg gelignite shellfire	shelling hatchling shellfish

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	checkstones	checkstrap	cheeks	chicks	jackass
	jockeys	jokes	shakes	showcase	Ajax	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					

	1 (1 ((1 (1	1 .	
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	,	0,1	•
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		J	U	U	
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
	COILLIVE	gannun	Sommer	0	0	-
729	canape	cannibal	canopy	connubial	gunboat	gunplay

730	cameos	chemist	comestible	combs	commas	commissary
	games	gums				
731	comedian	comet	commit	comity	committee	commode
	commodity	commodore	commuter	gamete	gamut	hook-method
	accommodation					
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		

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
	COLLOLICE					
	coherer	corer	crier	curare	grower	Gruyere

745	carryall cruel girl aquarelle	careless curl gorilla eggroll	carol cure-all grill squirrel	coral chorale growl scarlet	corral garland gruel	crawl garlic quarrel
746	carriage crouch gracious	carwash crush gurge	courage crutch grudge	crash garage kirsch	cache gorge aggression	creature gorgeous accretion
747	carcass crack cricket crook grog	cargo crackle croak croquet gherkin	caricature crag crock co-worker aggregate	character creak crocket curriculum segregate	cork creek crocodile gargle	correct crick crocus Greek
748	carafe craft graft grief scarf	caravan cravat graffiti groove	careful crave graph grove	carryover crevice grave gruff	carve curfew gravel aggravate	corvette curve gravy sacrifice
749	carabao carpet corroborate crop garbage grub	carbide carry-back crab croup grab	carbine corporal crepe curable grape	carbon corporation creep curb grapple	carboy corpse crib chiropodist grip	carp corpulent cripple chiropractor group

750	calls	calcium	callous	clasp	class	clause
, 50	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	1		G
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
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					

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			
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					
842	farina	fairness	fern	foreign	forename	forenoon
	forehand	France	franchise	frantic	friend	front
	frown	furnace	furnish	variance	varnish	veranda
	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		
848	farfetched	far-flung	far-off	fervor	foreface	forefather
	forefinger	forefoot	forfeit	forfend	forehoof	forefront
	forever	free-for-all	frivolity	verify	verve	effervescent
	overflow	overfreight	overview			
849	fireball	firebox	fireboat	firebrand	firebug	fireplace
	fireplug	firepower	fireproof	forbear	forbid	freebooter
	freeborn	four-poster	variable	verb	everybody	overpay
	overpower	overburden				

850	fallacy	FALSE	felicitate	fail-safe	fleece	fleas
051	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
050	violet	C 1	C 11 :	Cl 1	Cl 1	<u>(1: 1</u>
852	feline	felon	fall-in	flank	flannel	flinch
	flint	flaunt	flounce	fluent	flounder	fullness
	philanderer	philanthropist	valence	valentine	valiant	villain
050	violence	violin	volunteer	vulnerable	avalanche	<u> </u>
853	fellowman	filament	film	flam	flame	flambeau
	flamboyant	flamenco	flamingo	flimsy	flume	flummery
	folium	fulham	fulminate	vellum	velometer	volume
054	velum	a :	CI.	C·11	C1:	<u></u>
854	failure	flair	flare	filler	flirt	flier
	florin	floor	flour	flower	flurry	follower
	fuller	phalarope	philharmonic	valor	velour	valerian
055	volar	(:1: 1	Cl :1	<i>(</i> 1 1	Cl. 1 C	<u> </u>
855	fallal	filial	flail	flawless	flyleaf	flywheel
-056	fuel-oil	full-length	philologist	valueless	C 11 1 .	<u> </u>
856	filch	flash	flesh	flush	fellowship	fledgling
	fletch	flowage	fly-ash	foliage	foolish	valuation
	village	violation	volition	vulture	affiliation	avulsion
	effulgence	evolution	ovalshaped		C-1.	
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
-050	havelock	Ivy-League	C:1 C: 1	C:1 CC	<i>C</i> 1 .	
858	fallfish	falloff	filefish	file-off	flavin	flavor
	flivver	fluvial	flyover	fluff	fulfill	fulvous
	valve	velvet	vilify	vulva	effluvium	evolve
	half-life	ivy-leaf	a a			
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			

960	facciat	fatuous	fishes	fish-house	vicious	vouchsafe
860	fascist					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	O	O	C	
866	fish-joint	vitiation	voyage-charter	fasciation		
867	fetching	fishgig	fishhawk	fishhook	fishing	fetching
	vouching	voyaging	half-jug		9	C
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	•	•	•	
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870	facsimile	fakes	fix	figs	focsle	focus
070	fogs	folks	fox	fucose	focus	vaccine
	vex	efficacy	evokes	half-caste	offcast	vacenic
871	fact	factory	factotum	faggot	fagott	fecket
071			folktale		victim	victor
	fictitious	fogeater		vacate		
	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				C	
876	faction	factual	feature	fiction	figshell	foggage
	fogyish	folkish	fugacious	vacation	vaguish	vocation
	avocation	efficacious	eviction		G	
877	fagging	faking	fogging	folkcraft	Viking	half-cock
	evoking	havocking	heavy-going	offgoing	9	
878	fake-off	feckful	fogfruit	folkfest	halfcovered	ivy-covered
879	fogbank	fogbow	fogbound	vagabond	vocable	vocabulary
	evocable	half-cap	huffcap	safekeeping		,
				1 0		

880	fauvism frvestones half-faced	fives fiefs	fivesome fifes	fivesome vavasor	five-spot vivacity	five-star vivisection
881	fifth half-fed	fifty heavy-footed	fifteen hoof-foot	fiefdom	five-day	vivid
882	favonian avifauna	viewfinder	vivente	vivandier	ivy-vine	Vivien
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 foveiform	fee-faw-fum vivificate	five-figure vivify	fivefold	five-finger	five-footer
889	fife-player viviparous	five-piece	fivepins	five-ply	fivepence	five-percenter

890	fibs	fobs	fibster	fops	phoebes	Phoebus
	fubsy	phobias	VIPs	ovipositor	halfpace	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		
899	fob-pocket	half-bib	half-bob	V-bob		

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

920	panacea	pans	pains	pansy	pence	pencil
	pensive	pianist	pincers	pounce	puns	banister
	benzine	bonus	bounce	bunnies	buoyancy	abeyance
	happiness	hypnosis				
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	hobnail	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					
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

020	palmist	narmastan	nooms	nomaco	nomos	numico
930	1	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	C .	
938	palmification	palmful	pamphlet	pemphigus	pomfret	pomiform
	opium-fiend	•		1 1 0	•	•
939	pampas	pamper	pimp	pimpernel	pimple	pomp
	pompadour	pom-pom	pompon	pump	Bambi	bamboo
	bamboozle	bimbo	bimeby	bombard	bombast	bumblebee
	bumper		, , , , , , , , , , , , , , , , , , ,			
	z amper					

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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	1,	
944	pairer	parer	poorer	prairie	prayer	prerequisite
	prerogative	prewar	prior	priority	prorated	barrier
	bearer	borer	borrower	brewer	briar	uproar
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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	•	•
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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	J	•	11
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	Dioditicis	Dolollian	Dolollicter
954	pallor	peeler	pillar	pillory	pliers	player
754	plower	plural	polar	puller	bailor	billiards
	blower	boiler	bowler	bullring	bulrush	bulwark
	applier	supplier	DOWIEI	builing	bullusti	Duiwaik
955	palolo	playland	playlet	pool-hall	balalaika	blue-law
933	boll-hull	bullwheel	piayiet	poor-nan	DalalaiKa	biue-iaw
956	pillage	pleasure	pledge	plush	polish	polution
750	belch	bleach	bilge	blotch	bludgeon	bluejay
	blush	bulge	bullish	ablution	abolish	appellation
				whiplash		appenation
957	apology	applejack	oblige		splash	mla sata
937	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
050	bullock	bullying	applicant	appealing	spelling	.1. (
958	paleface	palfrey	palaver	pelf	pelvis	pilaf
	playful	plover	pullover	pulverize	bayleaf	bailiff
	belfry	belief	beloved	billfold	bullfinch	bluefish
	bluff	bolivar	boulevard	bullfight	bullfrog	bull-voiced
	bullyhuff	oblivion	uplift			
959	pallbearer	palpitate	pillbox	playboy	playpen	plebe
	pliable	plop	polyp	pulp	pulpit	ballplayer
	bellboy	blip	blooper	blowup	blueberry	bluebird
	bulb	bluebonnet	bullpen	bullpup	bullwhip	bullyboy
	applepie	epileptic				

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			
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	_	-	-

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990	papacy	papistry	papoose	pip-squeak	poppies	puppies
	PPS	babies	biopsy	bobbysoxer	bobsled	bypass
991	pipe-die	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			

13.1 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				