# How to Memorize Cards, GUIDs, Hashes, Public Keys, and More — Revision 8

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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. It's 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 alphabetic 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
		(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	
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	mine	minnow	moon	woman
	amen	ammonia	human	hymen	main	mana
	mania	manna	many	mean	mien	moan
	money	omen	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.

O35 SAWMILL smile smell small simile sea-mile 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.

<sup>&</sup>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	<b>CHARLIE</b>	chalk		hopscotch on the sidewalk
D	DELTA	chef	68	day job of a PhD-thesis student
E	ECHO	chip	69	a poker chip in a policeman's (LAW:5) hand
F	FOXTROT	case	70	filled with a dozen pink roses

## and their sound-alikes:

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

# 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:

20ctopu\$Ha\$8Leg\$With0740EBAY 20ctopu\$Ha\$8Leg\$With0740APPLE 20ctopu\$Ha\$8Leg\$With0740OVERLE

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.

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
Н	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

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
ĥ	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
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 top	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 top	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.)

	Table 1. Bate Hamachanolis (cont.)									
	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			
С	charlie	pipe	C3	JUL 16	Summer dosh	197	top-K			
d	delta	thesis	C4	JUL 23	Summer gnome	204	answer			
e	echo	toast	C5	JUL 30	Summer Mass	211	noted			
f	foxtrot	dozen	C6	AUG 06	Moon witch	218	not-if			
g	golf	twosome	C7	AUG 13	Moon time	225	union hall			
h	hotel	dowser	C8	AUG 20	Moon noose	232	honeymoon			
i	india	diesel	C9	AUG 27	Moon Nike	239	number			
j	juliet	wood-sage	CT	SEP 03	Job wham	246	enrage			
k	kilo	tusk	CJ	SEP 10	Job dice	253	annulment			
1	lima	adhesive	CQ	SEP 17	Job tyke	260	nachos			
m	mike	teaspoon	CK	SEP 24	Job near	267	unshucked			
n	november	tights	DA	OCT 01	Travel tie	274	nacre			
O	oscar	teetotaler	D2	OCT 08	Travel view	281	unfit			
p	papa	titan	D3	OCT 15	Travel deal	288	navy wife			
q	quebec	totem	D4	OCT 22	Travel onion	295	napalm			
r	romeo	tatar	D5	OCT 29	travel nib	302	muezzin			
s	sierra	title	D6	NOV 05	Restaurant lie	309	mess-up			
t	tango	death-watch	D7	NOV 12	Restaurant tune	316	midshipman			
u	uniform	hot-dog	D8	NOV 19	Restaurant top	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	#	MULE	35	corned-beef hash in a mule's feed-bag
Cash	\$	MATCH	36	set your cash on fire
Grapes	용	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	ROPE	49	
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

# 11 Tarot

Tarot cards have vivid imagery and powerful, emotional, associated words. Such features are 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 to add to the 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. These are 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.

NUM	TAROT	INCLUDING	TAROT	ALL REVERSE	TAROT	ALL OBVERSE
PEG	MAJOR	KNIGHTS	MINOR		MINOR	
	OBV	OBVERSE	REV		OBV	
TEA	MAG	willpower	wA	boredom	WA	inspiration
NOAH	PST	intuition	w2	hesitation	W2	independence
ME	<b>EMS</b>	motherhood	w3	obstacles	W3	expansion
RAY	EMP	fatherhood	w4	transience	W4	home
LAW	HEI	tradition	w5	dodge	W5	competition
JAW	LOV	union	w6	ignored	W6	recognition
KEY	CHA	drive	w7	give up	W7	protect
FEE	STR	strength	w8	panic	W8	rapid
PEA	HRM	contemplation	w9	exhaustion	W9	grit
TOES	WHL	luck	wT	micromanage	WT	responsibility
TOT	JST	causation	wJ	procrastination	WJ	excitement
TAN	HNG	perspective	wQ	selfishness	WQ	courage
TAM	DTH	cycle	wK	overbearing	WK	overcome
TAR	TMP	patience	cA	blocked	CA	spirituality
TAIL	DVL	addiction	c2	tension	C2	partnership
TISSUE	TWR	destruction	c3	gossip	C3	friendship
TACK	STA	faith	c4	acceptance	C4	apathy
<b>TAFFY</b>	LUN	misdirection	c5	peace	C5	disappointment
TAP	SUN	joy	c6	leaving home	C6	return home
NOSE	JDG	reckoning	c7	diversion	C7	daydreaming
NET	WLD	completion	c8	avoidance	C8	disillusioned
NUN	FOO	innocence	c9	smugness	C9	luxury
NAME	KNW	fearless	cT	broken family	CT	fulfillment
NERO	KNC	idealist	cJ	immaturity	CJ	dreamer
NAIL	KNS	defender	cQ	self-sacrifice	CQ	compassion
NICHE	KNP	efficient	cK	cold	CK	emot control

NUM	TAROT	INCLUDING	TAROT	ALL REVERSE	TAROT	ALL OBVERSE
PEG	MAJOR	KNIGHTS	MINOR		MINOR	
	REV	REVERSE	REV			
NECK	mag	illusions	sA	chaos	SA	breakthrough
NAVY	pst	repression	s2	hobson's	S2	indecision
NAP	ems	barrenness	s3	forgiveness	S3	heartbreak
MASS	emp	tyranny	s4	restless	S4	rest
MAT	hei	rebellion	s5	resentment	S5	conan
MAN	lov	one-sided	s6	resistence	S6	transition
MAMA	cha	directionless	s7	conscience	S7	cunning
MARE	str	self-doubt	s8	freedom	S8	trapped
MAIL	hrm	isolation	s9	anxiety	S9	hope
MATCH	whl	loss	sT	nadir	ST	betrayal
MIKE	jst	dishonesty	sJ	deception	SJ	curiosity
MUFF	hng	stalling	sQ	critical	SQ	clarity
MAP	dth	stagnation	sK	cruel	SK	discipline
RACE	tmp	excess	pА	bad investment	PA	venture
RAT	dvl	recovery	p2	overwhelmed	P2	priorities
RAIN	twr	aversion	p3	group conflict	P3	teamwork
RAM	sta	insecurity	p4	stingy	P4	frugality
REAR	lun	confusion	p5	receive charity	P5	poverty
RAIL	sun	sadness	p6	strings attached	P6	charity
RASH	jdg	doubt	p7	wasted work	P7	perseverence
RACK	wld	emptiness	p8	no motivation	P8	high standards
REEF	foo	naivety	p9	spendthrift	P9	fruits of labor
ROPE	knw	reckless	pΤ	fleeting success	PT	legacy
LACE	knc	moody	рJ	uncommitted	PJ	diligence
LOT	kns	feckless	pQ	jealous	PQ	abundance
LANE	knp	workaholic	рK	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:

C15C

DE6750B28A

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.

44A5 93FA A4 THEN ROARING, "'TIS LOW, you BUM!
"TILL he EATS TAZER!""

"DONE IT WELL, laddie!"

"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:

```
IF14 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:

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https://rebcabin.wordpress.com/2010/12/08/take-the-diamonds/
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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;	rose
			oil, gasoline, smoke, loud engines	rice
				horse
41	RT	rat	huge, greasy rat scurrying through garbage	road
			in an alley; garbage smell, long teeth	word
40	DNI		duining a mainstanan and all all and deal, atmost	radio
42	RN	rain	driving rainstorm; soaked clothes; dark street	huron horn
			trying to hail a taxi; no visibility	roan
43	RM	ram	giant ram with huge, curled horns; it's saddled	arm
10	ICIVI	Idili	and you're riding it; leather & wool	worm
			and you're mainly by leadier a woor	room
44	RR	rear	distinctive rear end of Corvette automobile;	rare
			driving it with the top down	roar
				horror
45	RL	rail	brass rail at a wood-paneled bar; can't reach	whorl
			it with your feet; beer and darts	whirl
				reel
46	RJ	rash	painful, red rash on your forearm	ridge
				Raj
	D7.			rush .
47	RK	rack	rack of antlers on caribou head mounted over	wreck
			the fireplace	rag
48	RF	ma a f	count most brightly coloured twomical fich.	rug
40	KΓ	reef	coral reef; brightly colored tropical fish;	roof
			SCUBA diving gear; rubber, seawater	rave wharf
49	RP	rone	heavy burlap or hemp rope in a coil or	rib
47	M	rope	attached to the thing-to-remember	robe
			attached to the timing to remember	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
Α	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
Η	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	•	
	J 1		- 1	*		

030	SAMSON	sea-mouse	seamstress	semester	semisweet	semicircle
U	swimsuit	Siamese	osmosis			
031	CEMETERY	smite	smith	smooth	smut	summit
V	Semite	symmetric	assumed	housemaid		
032	SALMON	cement	seaman	seminary	semantics	somnolent
W	summon	sameness	iceman	yes-man	awesomeness	wisewoman
	seeming					
033	OSMIUM	semi-monthly	semi-metal	semi-matte	semi-member	semi-mobile
X	semi-moist					
034	SWIMMER	simmer	smart	smear	smirk	summer
Y	samurai	summary				
035	SAWMILL	simile	sea-mile	seemly	similar	small
Z	smell	smile	seamless	assimilate		
036	SMOOCH	smidgen	so-much	smudge	smash	
a						
037	SMOKE	smack	smuggler	seeming	swimming	sumac
b						
038	SEMAPHORE	samovar	semifinal	semiformal	symphony	
С						
039	CYMBAL	sample	simple	somber	somebody	swamp
d	symbol	sympathy	samba	zombie	assembly	-
	-				•	

040	SEA-HORSE	series	serious	sewers	source	Circe
e	sarcen					
041	SARDINE	sardonic	seaward	seaworthy	sort	sortie
f	swarthy	assert	assort	certain	hazard	wizard
042	SIREN	serene	serenade	Syrian	surname	surrender
g	sworn	Sauron				
043	SERUM	sermon	swarm	ceramic	ceremony	
h						
044	SORORITY	searer	sour-herring	swearer	zero-hour	
i			_			
045	CEREAL	sirloin	seraglio	sorrel	Israel	serial
j						
046	SERGEANT	serge	search	surcharge	surge	surgeon
k	sea-urchin					
047	SAUERKRAUT	sarcasm	circle	sour-cream	sirocco	circus
1	circuit	circumstance	circle	zircon	sarong	
048	SERAFIM	serve	servile	surf	surface	surfeit
m	survive	survey	servant	sorrowful	serafic	serf
049	CERBERUS	sourpuss	surpass	surplice	surplus	serpent
n	surprise	syrup	sauerbraten	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

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	soshed			
062	SWITCH-KNIFE	session	sash-window	sedge-hen	sea-change	scission
+	sashoon	seashine	suasion	cession		
063	SASHIMI	satchem	switchman	sea-chime	sea-chum	
′/						
064	seashore	saw-shark	saw-sharpener	seizure	sojourn	suture
	switcheroo		_			
065	sash-line	sage-oil	satchel	seashell	switch-line	social
066	switch-shift	wise-judge	sage	cheese	association	
067	sash-cord	sedge-grass	siege-coin	switchgear	switch-cane	
068	sedge-fly	switch-ivy	switchover			
069	sagebrush	s-shaped	sash-pocket	sedge-bird	swashbuckle	switchblade
	switch-box					

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

080	sophist	saves	sufism	suffice	suffuse	housewives
081	safety	sift	soft	swift	Soviet	safe-deposit
	seafood	sea-fight				_
082	seven	siphon	souvenir	sea-fan	suaveness	Savannah
	housephone					
083	seafoam	sophomore	sea-vampire	suffumigate		
084	saffron	sapphire	savior	sever	severe	sphere
	savor	several	suffer	sovereign	suffragette	safari
	zephyr	whosoever	cipher			
085	safely	seafowl	safflower	safelight	souffle	suavely
	swivel	civil	asphalt	ice-floe	useful	
086	savage	safe-edge	icefish	housewifish	sawfish	sufficient
087	safeguard	saving	safe-conduct	savoy-cabbage	suffix	suffocate
	esophagus	civic				
		C 1	-: C:-1.1			
088	save-face	safe-haven	sieve-field			
088	save-face sieve-pit	safe-haven sofa-bed	SIEVE-FIELD SVP	sieva-bean		

000		• • •	•			1
090	space	specify	spice	spouse	suppose	sea-biscuit
	soupcon	auspices	asbestos			
091	spade	spate	speed	spit	spite	spot
	spout	spud	scepter	soup-tureen	subdue	houseboat
	hospital	Sabbath	September			
092	span	spin	spine	spoon	spend	Spain
	soybean	supine	subpoena	has-been	subnormal	aspen
	espionage	•	•			•
093	submarine	submerge	submontane	submit	spume	spumoni
	subminiature	O			•	1
094	soprano	spare	sparrow	spear	spire	spirit
	spark	sport	spread	spry	spree	sopor
	spray	sober	saber	supper	super	spring
	superb	separate	cypress	zebra	aspire	aspirin
	asparagus	isobar	osprey	whisper	-	-
095	splash	spleen	splendid	split	spell	spoil
	spool	supply	sowbelly	seaplane	sublime	sibilant
	zeppelin	esplanade	•	•		
096	speech	seabeach	special	specie	spatial	seepage
	subagent	subject	waspish	auspicious	•	1 0
097	sawbuck	speak	speck	spike	spook	spectacle
	zip-code	aspic	aspect	ice-pick	ice-bag	ice-pack
098	spiff	spoof	soap-flake	soupfin	subfreezing	subaverage
	subway-fare	•	•	1	O	0
099	sea-poppy	soapbark	soapberry	soapbox	soap-bubble	subprincipal
	house-paper		T	T	1	т т
	1 L 0.1					

0	SAW	ice	house	hose	haze	ZOO
	a-sea	ace	as	ass	assay	ayes
	easy	essay	eyes	has	hawse	his
	is	ooze	sea	sew	so	sow
	us	use	was	wise	woozy	yes
1	TEA	hat	hood	oat	yacht	widow
	ad	add	aid	at	auto	day
	die	do	dough	due	dye	eat
	eddy	etui	hate	head	heat	heed
	height	hide	hit	hoot	hot	hut
	idea	it	oath	odd	ode	tee
	thaw	thee	they	thigh	though	tie
	toe	tow	toy	wad	wade	wait
	watt	weed	weight	wet	what	wheat
	white	wide	wit	with	youth	
2	NOAH	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
	raw	rye	air	are	area	aria
	array	awry	aware	aura	ear	era
	err	here	her	hare	hear	heir
	hero	hour	harrow	hurrah	hurry	ire
	or	ore	our	war	wear	ware
	where	worry	weary	year	yore	your
		-	-			

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

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

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

20	NOSE	news	niece	nice	noise	noose
	anise	ensue	hence	hens	highness	once
	ones	ounce	onus	uneasy	wins	wines
21	NET	naught	not	note	night	neat
	need	nude	nut	ante	anti	annoyed
	and	ant	aunt	end	endow	gnat
	hand	hind	hint	haunt	hound	Hindu
	hunt	into	India	knight	knit	knot
	knead	undo	undue	unit	untie	unite
	wand	want	went	wind	window	wound
22	NUN	noon	none	nine	nanny	ninny
	noun	neon	no-one	anon	anyone	inane
	onion	union				
23	NAME	numb	anemia	annum	enemy	enema
	gnome					
24	NERO	narrow	near	nor	nowhere	newer
	noria	anywhere	honor	inhere	inure	owner
	unaware	winner	winery	whiner		
25	NAIL	newel	newly	nil	Nile	null
	annual	annul	enisle	inhale	inlay	in-law
	kneel	knell	knoll	only	unholy	
26	NICHE	notch	nudge	no-show	enjoy	gnash
	haunch	hunch	hinge	inch	unhitch	wench
	winch					
27	NECK	nag	nog	nick	nock	nook
	awning	hunk	ink	inning	Inca	knack
	knock	unique	unhook	wink	Yankee	
28	NAVY	nave	naive	nova	nephew	enough
	envy	envoy	inveigh	knave	knife	unify
29	NAP	nab	neap	nape	nappy	nib
	nip	nub	Niobe	honeybee	knob	unhappy

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

40	RACE	racy	raise	rase	raze	rice
10	rise	rose	rouse	ruse	arouse	erase
	eros	erose	harass	hearse	hearsay	heresy
	hers	hoarse	horse	heiress	iris	ours
	warehouse	worse	Warsaw			0 0000
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
-12	warn		.1			
43	RAM	rim	rhyme Rome	ream	room	rime
	rum	roam harm	harem	Romeo	arm	army
44	aroma REAR	rare		warm	worm	aurora
44	error	harrier	roar harrower	rower horror	arrear warrior	aurora worrier
	wearer	hearer	orrery	1101101	waiiioi	WOITICI
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
40	herring	heroic	work	wreck		
48	herring REEF	heroic raffia	work review	wreck revue	riff	rife
48	herring REEF roof	heroic raffia rough	work review rave	wreck revue ruff		
	herring REEF roof arrive	heroic raffia rough aerify	work review rave horrify	wreck revue ruff wharf	riff rive	rife rove
48	herring REEF roof arrive ROPE	heroic raffia rough aerify rap	work review rave horrify rape	wreck revue ruff wharf reap	riff rive repay	rife rove
	herring REEF roof arrive ROPE ripe	heroic raffia rough aerify rap rib	work review rave horrify rape rabbi	wreck revue ruff wharf reap rob	riff rive repay rub	rife rove rip robe
	herring REEF roof arrive ROPE	heroic raffia rough aerify rap	work review rave horrify rape	wreck revue ruff wharf reap	riff rive repay	rife rove

	T 1 0F					
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
	aloof	elf	olive	welloff	wolf	
59	LAP	lab	leap	lip	lob	lobe
	lop	lobby	lowboy	loop	alibi	alp
	elbow	elope	help	whelp	wallop	
			тт	тт	1	

choose ashes ages Jaycee Jewess joyce juice wages schuss  61 JET chateau cheat cheetah chit chu	ite o ath
61 JET chateau cheat cheetah chit chu	o ath
	o ath
	ath
jade chat jetty jot jute jud	
	1 1
shoot shot shout shut aged wic	ıget
washed	
62 CHAIN chin chine China gin Jan	е
John June join shine shown shu	n
+ Shawnee hygiene ocean widgeon	
63 CHIME chamois chum gem gym jam	L
jamb Jim sham shame shammy shii	nmy
'/ sham	
64 CHAIR cheer cherry chore char edg	er
jar jeer jury osier share she	ar
sheer sherry shire shore shower sur-	e
assure azure washer usher wager hos	iery
Hoosier	
65 JAIL chill Chile chili jelly jew	el
A jolly jowl July shall shell sha	wl
shallow shoal shill shyly agile usu	al
66 JUDGE cha-cha chichi choochoo chowchow jays	gee
B Jewish josh juju shush shoji has	hish
wishy-washy	
67 CHALK check cheek choke chug chie	ck
C chuck chic jack jock jockey Dja	ngo
jingo joke jug shag shako sha	ck
shake shock shuck sheik aging itch	ing
etching washing wishing watching	
68 CHEF chafe chaff chief chive Che	evy
D Java jayvee Jehovah jiffy jive sha	ve
sheaf shove achieve wash-off	
	bby
E g.p. gyp jab jib jibe jeep	)
job Job shabby shape sheep shij	)
shop hush-up	

70	CASE	cause	causeway	cozy	cuss	chaos
F	gas	gauze	gaze	goose	guess	guise
-	guys	kiss	quasi	ax	accuse	acquiesce
	eggs	hex	hoax	ox	wax	haggis
71	CAT	caddie	co-ed	coat	code	cot
G	cut	cute	gate	gait	gaiety	gat
	gaudy	get	goat	God	good	gout
	guide	goad	ghetto	Kate	kid	kite
	kitty	kit	quiet	quit	quite	quote
	quota	act	acquit	acute	weekday	wicked
	wicket		•		j	
72	CAN	cane	canoe	coin	coon	cone
Н	gain	gown	gun	guinea	keen	kin
	queen	again	acne	agony	awaken	icon
	oaken	wagon				
73	CAM	comb	calm	cameo	coma	comma
I	come	game	gam	gum	acme	hokum
	oakum	wigwam				
74	CAR	care	carry	coheir	cohere	core
J	cower	crew	crow	cry	cur	cure
	curry	choir	grey	grow	gory	gear
	guru	quarry	queer	quire	acre	agree
	agar	acquire	accrue	anger	eager	eagre
	ecru	euchre	occur	ogre	okra	hiker
	hooker	hugger	hogger	•1		
75	COAL	call	clay	coil	cool	coolie
K	collie	clew	claw	clue	gale	gall
	gal	galley Gaul	glee kale	glow keel	glue	goal kill
	gully	quill			keyhole	
	quail heckle		eagle	equal weekly	haggle	hackle
76	CAGE	ogle cash	ugly catch	cache	cachet	cashew
L	coach	couch	gash		gauge	gush
L	gauche	gaucho	ketch	gage kedge	hoggish	hogwash
	waggish	Saucio	ACICII	Reage	110551311	1105 W 4311
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	9	1	1
78	CUFF	calf	cave	cafe	coffee	cough
N	cove	covey	gaff	give	goof	guff
	guffaw	guava	quaff	agave	5	J
79	CAP	cab	cabby	cape	cop	cope
Ο	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	'effem
S	huff-em	woof-em	whiff-em	heave-em	have-em	hoof-em
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
a	piazza	pious	poise	pose	PS PS	pussy
u	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		,	,	11	
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	nal	nala	nail	nool	nool
90		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	O	007		•
98	BEEF	pave	peeve	payoff	puff	beehive
b	behalf	behave	bevy	biff	buff	buffo
	buffet	above	ab-ovo			
99	PIPE	рар	peep	baby	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	dissonance			
103	TWOSOME	theism	deism	decimal	disembark	dismay
g	dismember	December	dismiss	dismount	dissemble	dissimilar
	atheism	decimeter	decimate			
104	DOWSER	thesaurus	desert	dessert	deserve	desire
h	disarm	disarrange	discern	dishearten	disorder	disregard
	disreputable	disroot	dissertation	disrobe	disrupt	douser
	dicer	howitzer	dizzier	iodizer	woodsier	disarray
	tosser					
105	DIESEL	tassel	dazzle	desolate	disillusion	dislike
i	dislocate	dissolve	docile	deciliter	disloyal	white-sale
106	WOOD-SAGE	dosage	decision	discharge	dissuasion	autosuggest
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	theosophy	deceive	decipher	disaffect	disavow
1	disfigure	disfavor	tea-sieve	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	desperate	desperation		

110	TIGHTS	tedious	toothsome	tootsy	deduce	detest
n	statesman	status	statistical	studious	Adidas	
111	TEETOTALER	tete-a-tete	tidied	dietetic	day-duty	deadwood
O	doodad	dotted	doubted	attitude	audited	outwitted
	autodidact	Douthat (Ross)				
112	TITAN	Titanic	tetanus	tea-dance	two-tone	tidiness
p	tighten	deaden	detain	detonate	dead-end	sedateness
_	steadiness	stoutness	student			
113	TOTEM	teatime	two-timer	tedium	TeDeum	diadem
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	Dudley	
116	DEATHWATCH	detach	death-wish	dotage	hot-dish	dead-issue
t						
117	HOTDOG	toothache	dating	dedicate	deduct	detect
u	detective	tidings	tie-tack	idiotic	dedication	didact
	didactic					
118	AUTO-DA-FE	thoughtful	dative	dutiful	dutyfree	deadfall
$\mathbf{v}$	additive	auditive	tutti-frutti	sedative		
119	TEDDY-BEAR	tea-table	tadpole	toothpick	tidbit	toothbrush
w	deadbeat	deadpan	deathbed	ditty-bag		

120	DANCE	tenacity	tennis	tense	thence	tonsil
X	tinsel	dense	dunce	ad-nauseum	Adonis	Athens
	audience	haughtiness	dynasty	utensil	whiteness	witness
	sadness					
121	DONUT	taint	taunt	tenth	tendon	tend
y	thunder	tint	tender	twenty	TNT	twi-night
	tantalize	dainty	dandy	denote	dent	dentist
	denude	dint	tent	dwindle	attend	authentic
	addendum	identical	identify	whodunit	stand	stint
	astound					
122	ATHENIAN	tenon	teeny-weeny	denounce	adonian	tenant
Z	hootenanny					
123	thin-man	tonometer	tenement	town-meeting	denim	Denmark
	denomination	dynamo	dynamite	atonement	attainment	autonomy
	outnumber					
124	tanner	teener	tenor	tenure	thinner	tone-arm
	tuner	diner	dinner	donor	downright	wet-nurse
	whitener	itinerary				
125	toenail	thinly	tonal	tunnel	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	tinfoil	tuna-fish	tenfold	ten-footer	tea-knife	tuneful
	twinflower	de-novo	downfall			
129	tenpin	tenpounder	tinplate	tune-up	twin-bill	down-payment
	downbeat	downpour	donnybrook	Danube	dune-buggy	stoneblind

130	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	T-man	Tammany	thiamine	time-honored	thumbnail	tameness
	demand	demeanor	demonstrate	demon	diamond	dimension
	diminish	dominate	domain	dominion	domino	administer
	admonish	autumnal	headman	ottoman	stamina	sediment
133	teammate	time-money	time-immemorial	dime-museum	demimonde	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	time-sheet	time-chart	tam-o-shanter	damage	demijohn	dumb-show
	admission	automation	atom-age	Edam-cheese	estimation	steamship
137	tomahawk	tomcat	team-captain	time-card	timekeeper	tommy-gun
	tummyache	taming	timing	teeming	demagogue	demigod
	democrat	atomic	stomach			
138	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 tricycle tea-rose thrice torso terrace	thirst
Thursday trace throes tress trews	truce
dress dresser dressing drizzle drowsy	duress
address atrocity authoress waitress otherwis	se storehouse
stress	
141 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
Darth	•
142 train trainee thorn throne torrent	terrain
trance translation transport trench turn	tourney
turnip tyrant darn drain drench	dirndl
drink drown drunk dryness adherent	t adorn
attorney eternal outrun utterance astronau	t historian
strain	
143 tearoom term terminal thermometer torment	tram
tramp trampoline tremble trim trombon	e trumpet
theorem turmoil diorama drama dream	dermatology
dram drome dormer dormitory drum	dramamine
stream streamer uttermost watermelon waterma	ırk
144 terrier terror trier darer dearer	drawer
dreary dryer dry-run adorer outerwea	ar waterer
water-rat water-right	

1.45	C !1	(	t	d	C 112 -	t
145	trail	trial	trawl	thrill	trellis	trowel
	trolley	twirl	truly	truelove	tarheel	trilogy
	darling	derail	drill	droll	door-lock	water-hole
	water-lily	starling	astrologer	sterile	sterling	stroll
	Waterloo					
146	trash	tragedy	torch	thrash	thrush	traject
	treachery	treasure	tear-sheet	dredge	derision	dirigible
	drudge	duration	adoration	atrocious	authorship	hydrogen
	outrage	ostrich	starch	storage	stretch	sturgeon
	attrition					
147	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	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	tarpaulin	tripod	trap	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	tails	tales	tools	tiles	tallies	telescope
	tollhouse	delusive	dollhouse	doilies	dailies	atlas
	idealize	idolize	headless	hatless	outlast	utilize
151	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	tail-end	talon	toluene	towline	talent	dalliance
	DEW-Line	delineate	delinquent	headline	hot-line	headland
	idleness	Italian	outline	stillness	Stalin	
153	tollman	teleman	telemark	toolmaker	tallyman	Talmud
	thallium	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	telelens	tall-oil	taillight	telial	tileless	tallowless
	teleology	day	lily	Dalai-Lama	stellular	still-life
	styleless					
156	tail-shaft	tool-shed	tallish	tillage	tollage	theologian
	delicious	deluge	delusion	diligence	dilution	adulation
	etiology	stylish		-		
157	telegram	tailgate	toll-call	telling	tollgate	talc
	dealings	delegate	delicacy	dwelling	dialect	dialogue
	headlong	outlook	wedlock	-		-
158	telephone	television	tail-fin	twelve	tell-off	delve
	deliver	doleful	dolphin	Delft	dollface	outlive
159	tulip	tailpiece	tholepin	tilbury	tailpipe	telepathy
	tallboy	tollbooth	toolbox	talebearer	day-laborer	deliberate
	مده أنصواناه	dollop	doll-up	ad-lib	-	
	dilapidate	uonop	uon-up	au-no		

160	tea-chest	touchstone	touch-system	digest	dishes	duchess
	audacious	headcheese				
161	touchwood	touchdown	touch-type	digit	ditched	dished
	dashed	dodged	dish-towel	dishwater	ditchdigger	attached
	hotshot	whitewashed				
162	tuition	teach-in	tee-joint	dudgeon	Dutch-uncle	addition
	audition	edition	outshine	station	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	touchline	touchhole	Dutch-elm	dash-light	Dutch-light	
166	touch-watch	dishwasher	dodge-chain	Dutch-cheese	head-judge	
167	thatch-grass	teaching	touching	dashing	dodging	deject
	hatcheck	woodchuck	staging	stagecoach	dashiki	
168	touch-off	Dutch-oven	Dutch-wife	dash-off	disheveled	dishful
	wheat-chaff	stage-fright				
169	tissue-paper	toy-shop	touchback	touch-up	dodge-ball	odd-job
	dish-up	_		_		

170	taxi	tax	Texas	text	textile	tongs
	things	tea	cozy	decks	dachshund	dexterity
	doghouse	dogs	attics	ethics	outcast	suitcase
171	teakettle	tact	thicket	ticktack	ticket	together
	teakwood	tag-day	decadent	decade	decode	docket
	dictate	decathlon	doctor	ductile	dogwood	adequate
	edict	etiquette	educator	tactic	tactical	
172	token	tea-wagon	tycoon	taken	thicken	thickness
	technical	toucan	deacon	decanter	dignity	stagnant
173	thingumajig	Tecumseh	autogamy	decompose	document	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	tuck-shop	take-issue	dictionary	dockage	doggish	dogwatch
	dog-show	eduction	education			
177	tea-cake	tacking	tagging	decaying	digging	dogging
	attacking	outgoing	hot-cake	sticking	stocking	stock-exchange
178	takeoff	tick-off	tick-fever	dogface	dogfight	dogfish
	dog-food	dogfoot	duckfooted	hot-coffee	wedding-vow	outgiving
	stockfish					
179	teacup	take-up	toe-cap	dig-up	decapitate	decoupage
	hiding-place	stickup	stockbroker			

180	two-faced	two-fisted	two-phase	thieves	typhus	deface
	devastate	deficit	device	diffuse	divest	dovehouse
	advise	edifice	whiteface			
181	taffeta	theft	Tophet	typhoid	tuft	daft
	deft	davit	defeat	daffodil	David	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	tea-family	tough-minded	TV-man	deafmute	defame	
184	tavern	taffrail	tovarich	thievery	defer	deform
	defraud	defray	devour	diaphragm	differ	diver
	diverse	divorce	defrost	deaf-ear	adverse	advertisement
185	tivoli	tough-luck	twofold	toyful	defalcation	defile
	deflate	develop	devil	duffel	hatful	hateful
	outfield	outflow	white-elephant	youthful	stifle	wistful
186	TV-show	thievish	deficiency	deviation	devotion	dovish
	diffusion	division	audiovisual	whitefish	hot-fudge	
187	tough-guy	de-facto	defect	difficult	diving	advocate
	edification	staffing	stuffing			
188	two-fifths	TV-fan	thief-vault	dive-off	eighty-five	stave-off
189	taffy-pull	tough-boy	dive-bomber	edifiable	stovepipe	stove-pot
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190	topsail	top-sergeant	top-secret	topside	topsoil	topsy-turvy
	tapestry	tipsy	tips	tops	tubes	tubs
	types	debase	deposit	dubious	autobus	autopsy
	headpiece	outpace				
191	teapot	tepid	tiptoe	top-hat	top-dog	topdrawer
	towpath	two-bit	debate	debit	depth	deputy
	debutant	adapt	adept	adopt	output	hotbed
	outbid	stupid	-	-	-	
192	tiepin	topknot	topnotch	thighbone	twopence	debenture
	deepen	debonair	depend	depone	Dubonnet	Ethiopian
	headpin	outbound	headband	-		-
193	topman	topmast	topmost	top-milk	stepmother	topminnow
194	tie-bar	tea-party	taper	tapir	taproom	typewriter
	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	tip-sheet	top-sheet	top-shelf	two-page	type-wash	debauch
	adoption	adaption	stoppage			
197	tea-bag	tapping	topping	typing	topcoat	topkick
	tobacco	toboggan	topic	typical	typograph	debacle
	depict	dipping	debug	autobiography	hatbox	stopping
198	two-by-four	tip-off	topflight	top-heavy	typify	typefounder
	deep-felt	deepfreeze	stepfather	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	necessity	nieces	noses	noises	incisor	insist
	incessant	unceasing	unseasoned	unsuspicious	ounces	gnosis
	census					
201	nest	nasty	nicety	nostril	nose-dive	anesthesia
	honest	incident	incite	inside	insight	instant
	instead	instinct	institute	instrument	unsatisfactory	unsteady
	unsuitable	gnostic	one-step	Wednesday	•	•
202	newshen	nice-nelly	niacin	nosiness	nuisance	ensign
	ensnare	incinerator	innocent	insane	insensitive	insincere
	uneasiness	unseen	unsound	unison	unessential	
203	newsman	noisemaker	news-media	nizam	noisome	enzyme
	hansom	inasmuch	insomnia	in-sum	insemination	unseemly
	unassuming	unsimilar				
204	newsreel	newsworthy	answer	encircle	incertitude	insert
	insurgent	insurmountable	insurrection	uncertain	unsworn	sincere
	censor					
205	nacelle	nozzle	nuzzle	nestle	nasal	noiseless
	nicely	enslave	insolence	insolvent	insulin	insular
	insult	ancillary	oneself	unselfish	wine-cellar	senseless
	Han Solo					
206	news-agency	nose-job	incision	ionization	unsociable	sensation
207	nose-cone	nosegay	encyclopedia	honeysuckle	inscription	insect
	insecure	insignificant	unicycle	unscrupulous	wainscot	
208	news-vendor	henceforth	insufferable	insufficient	once-over	ionosphere
	uncivil	unsafe	UNICEF			_
209	newsboy	nosepiece	newsprint	no-soap	newspaper	inhospitable
	inseparable	insipid	inspect	inspiration	insuperable	insupportable
	unspent	sensible	_	_	_	
	_					

210	notice	Nazi	nowadays	nudist	no-dice	antacid
	anticipate	antiseptic	enthusiasm	entice	indecent	indistinct
	induce	industry	hind-sight	handsaw	undeserved	undesirable
011	undisturbed	Ents	. 1 . 1 .	. 1	1 1	
211	nitwit	nudity	night-duty	noted	needed	antitrust
	annotate	antidote	entity	entitle	handed	haunted
	handout	indeed	knighthood	undoubted	untidy	united
	untied	undated	want-ad		. 1 1	1
212	andante	antenna	Anthony	antonym	india-ink	antiknock
	handiness	entwine	inattentive	indent	Indian	intend
	intense	intonate	one-to-one	undeniable	unthankful	wanton
	sentence	sentinel	centennial			
213	nutmeg	nightmare	antimatter	anthem	anadem	anatomy
	anathema	antimissile	endemic	inadmissible	indemnify	intimacy
	intimidate	handyman	handmaiden	handmade	honeydew-melon	ointment
	on-time	onetime	anytime	untimely	windmill	
214	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	needle	needless	noodle	night-owl	new-deal	antelope
	anthill	endless	handle	indelicate	indolent	indulge
	intellect	intelligent	intolerable	know-it-all	until	windless
216	nightshade	night-watch	notation	nutshell	annotation	antechamber
	indigenous	indigestion	intuition	untouchable	windowshade	wantage
	window-shopping	sandwich				
217	nothing	nightcap	nightgown	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	native	nightfall	notification	endeavor	endive	handful
	antiphony	inadvisable	indifferent	individual	indefinite	undefined
	undeveloped	undefeated	scientific			
219	notebook	notable	night-pay	antibiotics	antibody	antipasto
	antipathy	antipode	antipope	handbag	handbilĺ	handbook
	handball	inaudible	independent	inedible	knee-deep	knotty-pine
	windpipe	sandbox	sound-box		1	<i>J</i> 1
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220	nonce	nonconco	noniico	nainsook	ananas	200211020
220		nonsense	nonuse		ananas	announce
	annoyance	enhance	onions	onionskin	unanswered	
221	noontime	ninth	nineteen	ninety	nondenominational	nontechnical
	anoint	innuendo	know-nothing	unintelligible	unintentional	unwanted
	union-dues	unknit				
222	ninon	no-nonsense	nonunion	nonnegotiable	nonentity	non-owner
	unknown	unannounced				
223	ninnyhammer	noon-meal	nonemotional	nonmetal	nonmember	nonmedical
	nonmilitary	nonemergency	anonymous	inanimate	unanimous	unanimated
	synonymous		•			
224	nunnery	nonracial	nonradical	onion-ring	union-organizer	unenrolled
	unhonored			_	~	
225	nonliquid	nonliterary	nonelect	nonallied	nonelastic	unenlightened
	unenlarged	unanalyzed	union-hall	union-labor	union-leader	son-in-law
226	nonchalant	nonjuror	nonage	knee-injury	uninjured	uninsured
	union-jack	union-shop	uninitiated			
227	nincompoop	nonagon	nankeen	non-com	nannygoat	nonconformist
	nonacceptance	nonactive	nonaggressive	nonequal	nonexclusive	unknowing
	unincorporated			-		_
228	nine-footer	nonviolence	nonfat	nonvoting	nonfeasance	nonferrous
	nonavailable	unenviable	unenforcible	uninventive	uninvited	uninformed
	union-official	Nineveh				
229	ninepins	nonabsorbent	nonbeliever	nonbreakable	nonpaying	nonpareil
	nonplus	nonpros	nonpartisan	nonoperative	nonprofessional	nonprofit
	nonpolitical	union-pay	1	1	1	
	1	1 /				

230	names	namesake	nemesis	numismatist	animosity	inmost
	enemies	gnomes	unmistakable	unmask		
231	nomad	named	new-math	name-dropper	animate	enmity
	inmate	pneumatic				
232	nominal	nominee	new-moon	numbness	honeymoon	inhuman
	unmanly	unmannerly	unmentionable	unmindful	unwomanly	pneumonia
233	name-maker	new-member	unmaimed	unmemorized	anemometer	unmomentous
234	namer	Nimrod	numeral	numerology	newmarket	enamor
	enumerate	unmarred	unmarked	unmerciful	unmarried	un-American
235	nameless	numbly	animal	enamel	anomaly	pneumology
236	animation	unemotional	unimaginative	unmatched	unmeshed	
237	naming	anemic	inimical	unmake	winemaker	
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
210	owners	unrest	unhorse	sonorous	sunrise	onerous
241	narrator	neurotic	nard	north	inarticulate	inert
411				_		
	inheritance	inroad	inward	onward	unearth	unhurt
	unredeemed	unworthy	unwritten			
242	no-iron	no-run	neuron	nearness	narrowness	unearned
	unworn	unwarned	unwarranted			
243	norm	normal	near-miss	Norma	Norman	enormous
	narrow-minded	unarmed	innermost			
244	nearer	narrower	honorary	unrewarded		
245	narwhal	narrowly	nearly	New-World	enroll	gnarl
	knurl	one-reel	unrelenting	unreliable	unruly	unreal
	unroyal	snarl			•	
246	narration	nourishment	Norwegian	energy	enrage	enrich
	inertia	onrush	ownership			
247	narcotics	nark	Newark	New-York	anarchy	on-record
	honoring	unrecorded	unrequited	unerring	unrecoverable	
248	nerve	nirvana	no-refund	enervate	unravel	unrivaled
	unrefined	unruffled				
249	nearby	enrapt	enrobe	enwrap	honorable	unrepentant
	unripe	unrippled	unwrap	•		-
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250	nails	nelson	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	nylon	nail	enamel	aniline	inland	on-line
	inalienable					
253	newly-made	annulment	unlimited	unilluminated	unlamented	
254	nailer	enlargement	inhaler	kneeler	unlearned	unalarmed
255	nailless	nail-hole	nilly-willy	unloyal	Honolulu	
256	knowledge	analgesic	analogy	ineligible	unlatch	unleash
257	nailing	kneeling	no-luck	new-look	onlooker	unlike
	unlock	unlucky	unwelcome	unwilling	unallocated	unlooked-for
258	nail-file	New-Left	nullify	analphabet	enliven	in-love
	on-leave	unlawful	unlive	unloved		
259	nail-biting	nail-polish	nail-up	nol-pros	analeptic	unhelpful
	unliable	inhalable	unallowable	unlabeled	unlabored	

260	nauseous	niches	notches	nudges	hinges	inches
	injustice	unjust	Natchez			
261	nidget	notched	nudged	gnashed	enjoyed	inched
	one-shot	unshod	unshut	initiated	unwashed	unwashed
262	nation	notion	ancient	enchant	engine	engineer
	enjoin	ingenue	ingenious	injunction	knee-jointed	ungentle
	ungenerous	unchanged	unchained			
263	notchmark	enjoyment	inchmeal	unashamed		
264	nature	notcher	nudger	ensure	enshrine	injury
	insurance	knee-jerk	onager	on-shore	unshrinkable	unsure
	century					
265	enchilada	initial	unchallenged	unchilled	unshielded	unsheltered
	unusual					
266	hinge-joint	unjudged	un-Jewish			
267	nudging	gnashing	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	negus	next	nexus	knocks	annex	encase
	inaccessible	inexcusable	inexpensive	inks	inexperience	innocuous
	inquest	unaccustomed	unexpected	unexplored	unquestioned	Yankees
	snacks					
271	necktie	naked	negative	nocturnal	nugget	nectar
	nicotine	anecdote	enact	inequitable	inquietude	inactive
	iniquity	honky-tonk	hunky-dory	knockout	uncut	ungodly
	uncaught					
272	nickname	knickknack	noggin	knock-knee	encounter	henequen
	inconceivable	incongruous	inconsiderate	inconsistent	inconsolable	inconvenience
	inconvertible	unacquainted	unconcerned	unkind	sunken	
273	newcomer	encamp	encomium	encumber	enigma	encompass
	honeycomb	income	incomparable	incompatible	incompetent	incomplete
	incumbent	uncomfortable	oncoming	unicum	unkempt	
274	nacre	nagger	neckerchief	Negro	neck-rein	necrology
	Niagara	nicker	niggard	anchor	encore	encourage
	engrave	hunker	inaccurate	inaugural	incarnate	incorporate
	incorrect	increase	incur	inquire	knackwurst	knickerbockers
	knocker	ungraceful	unguarded	unicorn	winker	winegrower
275	nickel	necklace	neckline	neglect	negligee	niggle
	no-cal	nucleus	ankle	enclose	incalculable	incline
	include	inequality	inkling	inoculate	knuckle	unclaimed
	uncle	unequal	wine-cooler	wineglass		
276	negation	negotiate	nicotiana	noxious	anguish	anxious
	encage	engage	inaction	incautious	unction	
277	nagging	necking	nogging	honey-cake	inking	knocking
	ongoing	ungag	winking	sinking	synagogue	
278	no-cavity	no-caf	encage	knock-free	knock-off	uncover
	unequivocal		-			
279	hanky-panky	incapable	innkeeper	incubate	inkpot	kneecap
	knockabout	uncouple	unequipped	unoccupied	-	-
				_		

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	never	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				O	
287	navigator	novocaine	ineffective	infect	invective	invigorate
	invoke	unaffected	Univac			Ü
288	navy-wife	any-five	in-view-of	knife-file	unfavorable	
289	navy-bean	navy-brass	enfeeble	enviable	unevaporated	unfabricated
	unifiable	Ž				

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		
	<del>_</del>		_			

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		•	<u> </u>
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	-	
		200	manipulate	manpower	minable	moneybags
329	man-	ape	mampulate	manpower	minucic	1110110) 20180
329	man- money-belt	ape monoplane	monopoly	moonbeam	moon-blind	myna-bird

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	hammerblow	-		

350	mails	malice	miles	mills	millisecond	maelstrom
000	molest	aimless	homeless	111110	minisceona	macionom
351	malt	malady	milady	mallet	melodrama	melody
	meld	melt	mild	military	millet	mold
	muleteer	multiple	mulatto	multitude	emulate	hamlet
	humility	homiletics	omelet	umlaut	smelt	smolder
	simulate	simultaneous				
352	MELON	melancholy	milliner	million	millennium	malign
	hemline	homeland	Himalayans	semolina		
353	mailman	maim	melamine	millimeter	millman	muleman
	mule-mark	mealymouthed	emolument	small-minded		
354	molar	miler	malaria	miller	milliard	mealworm
	mailer	milord	millwright	ameliorate	similar	
355	may-lily	molehill	milliliter	mill-wheel	melilot	
356	militia	malicious	mileage	maladjusted	millage	mulch
	mulish	emulsion	humiliation	homology		
357	malcontent	mailing	malignant	malkin	milk	milligram
	mollycoddle	molecule	Malaga	amalgamate	hemlock	homologous
358	mellophone	malevolent	malefactor	malfeasance	malformed	malfunction
	mellifluous	milee-feuille	millefleurs	millfeed	millefiore	mule-foot
	mollify	homelife				
359	mailbag	mail-boat	mail-pouch	mailbox	malleable	melba
	malapert	malaprop	mulberry	muleback	smallpox	

360	magistrate	majesty	majuscule	matches	images	
361	machete	matchwood	mashed	midget	meshed	emaciate
362	machine	mission	motion	magenta	mushiness	emotion
	imagination	homogenous	omission			
363	matchmaker	matchmark	mishmash	mushmelon	MGM	
364	major	majority	mature	measure	majorette	masher
	moocher	mushroom	meshwork	homager	imagery	
365	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	1	1
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
	Harry Mudd					
432	raiment	remain	remind	reminisce	remnant	remonstrate
	remunerate	Roman	romantic	Romania	ruminant	airman
	Armenian	ermine	harmony	hormone	ceremony	sermon
	surmount		,		,	
433	remember	rememorate	roommate	rum-mill	armament	_
434	rammer	ramrod	remark	remorse	rhymer	roamer
	roomer	rumor	rumrunner	armor	armory	warmer
435	remilitarize	rimland	ramulous	airmail	air-mile	armless
	armhole	armlet	harmless	ormolu	warmly	armload
	armlock				-	
436	ramjet	ramshackle	rematch	remission	rummage	armchair
437	remake	rhyming	roaming	rooming	Armageddon	armguard
	arming	harming	warmonger			
438	ramify	reemphasize	removal	roomful	armful	earmuff
	harmful	•				
439	ramp	rampart	ramble	rampage	reemploy	Rembrandt
	reimburse	rhombus	rhumba	romp	rumble	rumpus
	rambunctious	rambutan	armpit	warm-up		-

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

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

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

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

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

490	rabies	repast	repose	repost	rebus	robust
	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	Lysol				
506	loose-jointed	Alsatian	oil-switch	wall-switch	yellow-sage	yellow-sedge
507	lacing	leasing	losing	Alaska	oilskin	woolsack
508	lascivious	laissez-faire	Lucifer	elusive	illusive	
509	lazybones	lesbian	lisp	low-spirited	wellspring	well-spoken
	allspice					

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

520	lance	lens	lioness	linseed	lonesome	lunacy
020	lyonnaise	alliance	aliens	allowance	holiness	illness
	silence	Linus			1101111000	1111000
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	Lando	
522	lenient	Lenin	leonine	linen	linin	alanine
	all-in-one	hole-in-one	illanun	Illinoian	wellknown	
523	lineament	lineman	liniment	Holy-Name	alignment	allonym
	illinium					
524	tanner	lanyard	leaner	liner	linear	lionhearted
	loaner	loanword	loner	lunar	Leonardo	alienor
525	lanolin	lienal	lineal	line-haul	Iinoleate	linoleum
	lonely	lunule	willy-nilly			
526	launch	lounge	lineage	longitude	lingerie	lunation
	luncheon	lunge	lynch	alienation	elench	elenge
	ill-natured					
527	lanky	lining	link	links	linocut	leaning
	loaning	loincloth	low-necked	lunkhead	lynx	all-inclusive
528	lanuvium	lenify	line-firing	line-off	lion-fish	ill-informed
	well-enough	well-informed				
529	lenape	unable	linebacker	line-up	linebred	linebreed
	loanable	loanblend	alienable			

530	lambs	limbs	limousine	looms	low-mass	almost
	elms	Hallowmas	slums	1001110	10 11 11400	WIIII00V
531	lamdan	limit	a-la-mode	almighty	elm-tea	helmet
	ill-mated	well-made		0 ,		
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	lushly	hellishly	oil-shale	owlishly	wellchilled	slouchily
566	ill-judged	all-Jewish	logician	well-judged		
567	latchkey	lodging	logic	lashing	alleging	yellow-jack
	illogical					
568	low-shafted	well-shaven	well-shuffled			
569	awl-shaped	hell-ship	algebra	oil-job	oil-ship	well-shaped

570	laxative	laxity	legacy	legs	locks	looks
	locust	low-cost	log-house	likewise	lungs	elks
	elixir	holocaust				
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
	look-up	longboat	lugubrious	helicopter	allocable	

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 lobbies	laps lobster	lapse alabaster	lips alibis	loops alps	lopsided ellipse
	elopes	helps	wall-base	celibacy	1 1	
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	wheelbarrow
595	label	lapel	liable	libel	lobelia	loblolly
	lobule	tube-oil	loophole	lowbell	allowable	helpless
	hillbilly	hullabaloo	well-beloved	soluble	syllable	-
596	libation	lobation	low-budget	lowbush	lowpitched	slipshod
597	lawbook	leaping	lobbying	looping	alpaca	eloping
	helping	ill-being	oil-bag	well-being	sleeping	
598	leapfrog	lop-off	all-beef	helpful	wellbehaved	lapful
599	lap-up	leap-up	ale-pub	Ali-Baba	oil-pipe	wallpaper

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

610	chiteaus	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	_			_

620	chance	chains	chancellor	chanson	Chinese	genesis
020	genius	genocide	agency	ginseng	issuance	oceans
	shyness	genociae	agency	Smoerig	issuarice	occurio
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	O		O	Ü	
623	chainman	chain-method	Chinaman	chinampa	chunam	genome
	show	name		-		
624	chinaware	general	generation	generic	generosity	genre
	January	joiner	junior	shiner		-
625	chainless	chainlet	channel	chenille	genealogy	genial
	oceanology	shinleaf				
626	change	chain-shaped	chinch	chinchilla	ginger	gingelly
	gingivitis	agential	jointure			
627	chink	Chinook	chunk	gynecologist	johnnycake	joining
	jonquil	junk	junkie	junction	schnook	shining
	shunning	shank	adjunct	adjoining	eugenic	hygienic
628	Geneva	genuflect	janiform	junefish	juneflower	oceanfront
	shoe-knife					
629	china-boy	chinbone	chin-up	janapa	johnapple	johnboat
	joinable	Juneberry	junebud	juniper	schnapps	shinbone
	shinplaster					

630	chemise	chimes	chums	gems	James	jams
	shames	shamus				
631	geometry	jammed	jamwood	jimdandy	jimmyweed	ashamed
	age-mate	•	•	,		
632	chimney	chow-mein	G-man	Gemini	geminate	gymnasium
	gymnast	shaman	showman	ashman	hegemony	hatchman
	hush-money	wash-woman	watchman			
633	Jemima	gym-master	jam-maker	show-member		
634	chimer	chimere	gemmary	jammer	shamir	shammer
	shamrock	shimmer	shomer			
635	chummily	gemlike	gemmologist	gemmule	gym-hall	schmaltz
	shameless	Ishmael	Gimli			
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	chimp

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	Gorn
643	chairman	charm	charwoman	germ	German	germane
	germinate	gerrymander	jeremiad	juryman	jurywoman	ashram
	showroom	shrimp	washerman	washroom		
644	cheerer	Gerardia	juror	sharer	shearer	shearier
	shirrer	shorer	surer	assurer	usherer	usurer
645	charlatan	charily	cheerleader	Charlie	cheerless	churlish
	schorl	sherlock	shoreline	shareholder	shrill	surely
	usherless					
646	charge	cherish	church	Churchill	George	gyration
	shrewish	ushership				
647	charcoal	Cherokee	gyrocompass	Jericho	jerk	jarring
	jargon	jerrican	shark	sharing	shirk	shriek
	shrug					
648	chervil	cheerful	sharif	sheriff	shrift	shrive
	shroff	shrove	surefire	surefooted	giraffe	
649	charabanc	charpoy	cheer-up	cherry-pie	chirp	chirrup
	cherub	sharp	sharpy	sherbet	shorebird	showerproof
	shrapnel	shrub				

650	chalice	chills	ialousio	icalouer	iailhausa	iorvole
030			jalousie	jealousy	jailhouse	jewels
	joyless	Julius	shells	shoelace	ageless	socialism
651	child	gelatin	gelid	jilt	jolt	shallot
	shelter	shield	shoulder	age-old	agility	Shalob
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
	shell-less	shell-like	agilely	shillelagh		
656	geology	shallowish	shellshake	shell-shock	shilly-shally	hagiology
657	Shalako	shealing	shellac	shellcracker	shell-egg	shelling
	shellycoat	shilling	Shylock	age-long	gelignite	hatchling
658	jellify	jellyfish	jollify	shelf	shellfire	shellfish
	shellflower	shell-vault	shelver			
659	chilblain	jailbait	jailbird	jailbreak	jalopy	jellybread
	julep	shallop	shellapple	shellback	shellproof	shilpit

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

670	checks	checkstones	checkstrap	cheeks	chicks	jackass
	jockeys	jokes	shakes	showcase	Ajax	hedgehogs
	watchcase	jacks			,	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
	Chekhov					
679	cheekbone	cheekpiece	checkback	checkbite	checkbook	checkpoint
	check-up	chick-pea	chockablock	Jacob	Jacobin	shakeproof
	shakeup					

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

690	chaps	chapstick	chips	chops	chopsuey	chophouse
	gypsy	gypsum	jabs	jobs	gyps	ships
	shops	showbiz	showpiece			_
691	chapter	chopped	gibbet	shipped	shopped	showboat
	ashpit	hashpot	hotchpot	Egypt	Jupiter	Jabba the Hut
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
	Chewbacca					
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	causeation	gasogene	quasi-judicial	quiz-show	accusation	acquisition
	exchange	exchequer	exigent	oxygen	case-shelf	
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					
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	O	0 ,	1
	*					

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

730	cameos	chemist	comestible	combs	commas	commissary
	games	gums				
731	comedian	comet	commit	comity	committee	commode
	commodity	commodore	commuter	gamete	gamut	hook-method
	accommodation					
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
	Icarus					
741	carat	card	cardinal	carrot	cart	cartoon
	cord	cordial	corridor	courtesy	court	coward
	cradle	crate	crater	create	credit	critic
	crowd	crude	curate	curd	curt	curtail
	curtain	curtsy	chord	garden	garter	gird
	grade	grate	gratify	gratis	great	greet
	growth	grid	grit	guard	karate	krater
	keyword	quart	quarter	accord	accurate	egret
	yogurt	-	-			
742	careen	carnage	carnation	carnival	chronic	corn
	corner	cornet	cornice	corny	coronation	crane
	crank	crayon	crony	crown	currant	current
	crooner	cranberry	garnet	garnish	grain	granary
	grand	granite	grant	granny	greenhorn	greyhound
	grin	grind	ground	grown	guarantee	groan
	green	kernel	ocarina	quarantine	hanger-on	
743	Carmen	chromium	cram	cramp	cream	cremate
	crime	crimson	crumb	crumble	garment	gram
	grammar	grampus	grim	grime	groom	grumble
	gourmet	gourmand	gremlin	Karma	kermis	Kremlin
	acrimony	aquarium	agreement	sacrament	scream	skirmish
744	carara	career	careworn	cariri	carrier	courier
	coherer	corer	crier	curare	grower	Gruyere
	agrarian				-	-

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 Kirk	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
, , ,	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 )		O
752	calendar	call-in	clandestine	clean	clench	client
	clinch	clinic	clink	clown	colin	colleen
	colon	cologne	colony	coolness	gallant	gallon
	glance	gland	glean	glen	kiln	ugliness
	esculent	Ü	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
	golem	Gollum				
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		1	1
771	cockatoo	cocotte	cocowood	cactus	cocktail	cockade
	cockeyed	cooked	cookout	coquette	gaycat	go-getter
	kingdom	aquacade	quick-tempered	quick-witted	0 3	0 0
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
100	capstone	capsule	copious	capes	cowboys	•
			cabasa		cowboys	gaps
701	keepsake	hiccups		Cupid		• 1
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	cobra	-
795	cabal	cable	capelet	capelin	Capella	cobbler
	cobblestone	cobalt	copilot	couple	copula	cowbell
	cubbyhole	cueball	cupel	gable	goblet	goblin
	aquaplane	quibble	1	O	O	O
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	•	7.1	C	, ,
798	Cape-ivy	cap-flash	capful	cupful	keep-off	cubiform
	gabfest	1	1	1		
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	phaser		
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	1		•		
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	Vader		
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		

-020			·	·	·	·
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	eupĥonic	Ü
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
040	forsake			frost	_	
		forswear	freeze	furze	foursome	foresee
	four-star	forsythia	furious		frustrate	Pharisee
	phrase	various	varsity	veracity	verse	affairs
-0.14	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	Frodo				
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	8	
848	farfetched	far-flung	far-off	fervor	foreface	forefather
- 10	forefinger	forefoot	forfeit	forfend	forehoof	forefront
	forever	free-for-all	frivolity	verify	verve	effervescent
	overflow	overfreight	overview	· Carry	. 62 . 6	inci , escerti
849	fireball	firebox	fireboat	firebrand	firebug	fireplace
UTA					forbid	
	fireplac	firenower	tirenroot	tornear		
	fireplug	firepower	fireproof	forbear		freebooter
	fireplug freeborn overpower	firepower four-poster overburden	variable	verb	everybody	overpay

850	FLEECE fogies floss	false philosophy	felicitate valise	fail-safe velocity	fallacy avulse	fleas civilize
851	fallout	falter	fault	felt	field	filter
	filth	flat	flatter	fleet	flight	flitter
	float	flood	flotsam	fluid	flute	flutter
	fold	philodendron	philatelist	valet	valid	vault
	violet					
852	feline	felon	fall-in	flank	flannel	flinch
	flint	flaunt	flounce	fluent	flounder	fullness
	philanderer	philanthropist	valence	valentine	valiant	villain
	violence	violin	volunteer	vulnerable	avalanche	
853	fellowman	filament	film	flam	flame	flambeau
	flamboyant	flamenco	flamingo	flimsy	flume	flummery
	folium	fulham	fulminate	vellum	velometer	volume
	velum					
854	failure	flair	flare	filler	flirt	flier
	florin	floor	flour	flower	flurry	follower
	fuller	phalarope	philharmonic	valor	velour	valerian
	volar					
855	fallal	filial	flail	flawless	flyleaf	flywheel
	fuel-oil	full-length	philologist	valueless		
856	filch	flash	flesh	flush	fellowship	fledgling
	fletch	flowage	fly-ash	foliage	foolish	valuation
	village	violation	volition	vulture	affiliation	avulsion
	effulgence	evolution	ovalshaped			
857	falcon	fallguy	falling	felucca	filigree	filing
	flag	flake	flax	flex	flick	fling
	flog	flock	fluke	flying	follicle	following
	fulcrum	phlegmatic	phlox	volcano	vulgar	afflict
	havelock	Ivy-League	4.7			
858	fallfish	falloff	filefish	file-off	flavin	flavor
	flivver	fluvial	flyover	fluff	fulfill	fulvous
	valve	velvet	vilify	vulva	effluvium	evolve
	half-life	ivy-leaf	<i>C</i> 1	CI.	- Cl	
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			

facciet	fatuous	fichoc	fish-house	vicione	vouchsafe
					voucrisarc
					C-11
		•			fishwood
	0	0	0	vitiate	vouched
		officiate	offshoot		
fagine	fashion	fission	fishiness	fishnet	fusion
Vishnu	vision	aviation	efficient	effusion	evasion
oafishness	officiant	offishness	ovation	sufficient	
fishman	fish-maw	fishmonger	fishmouth	avouchment	
feature	fisher	fishweir	fishworm	fissure	fudger
future	voucher	voyager	voyageur	officiary	offshore
savagery				•	
facial	fishhold	fishily	fishline	fishoil	fishowl
fishwell	fudgewheel	vagile	vetchling	vigil	visual
halfshell	official	Ü	Ü	Ü	
fish-joint	vitiation	voyage-charter	fasciation		
fetching	fishgig	fishhawk	fishhook	fishing	fetching
vouching	voyaging	half-jug			
fishfall	fish-farming	fishify	fish-flour	fishwife	fish-finder
half-shaved	0	•			
fetch-up	fishable	fish-bellied	fish-blooded	fishbowl	fishberry
fish-bone	fishpond	fishpound	fishplate	fishy-back	vouchsafe
off-job	wave-shape	•	•	•	
	oafishness fishman feature future savagery facial fishwell halfshell fish-joint fetching vouching fishfall half-shaved fetch-up fish-bone	royages vichyssoise fidget fished fitchet fugitive half-sheet half-shot fagine fashion Vishnu vision oafishness officiant fishman fish-maw feature fisher future voucher savagery facial fishhold fishwell fudgewheel halfshell official fish-joint vitiation fetching fishgig vouching voyaging fishfall fish-farming half-shaved fetch-up fishable fishpond	royages vichyssoise effigies fidget fished fish-day fitchet fugitive vegetable half-sheet half-shot officiate fagine fashion fission Vishnu vision aviation oafishness officiant offishness fishman fish-maw fishmonger feature fisher fishweir future voucher voyager savagery facial fishhold fishily fishwell fudgewheel vagile halfshell official fish-joint vitiation voyage-charter fetching fishgig fishhawk vouching voyaging half-jug fishfall fish-farming fishify half-shaved fetch-up fishable fish-bellied fish-bone fishpound	richyssoise effigies officious fidget fished fish-day fishtail fitchet fugitive vegetable vegetarian half-sheet half-shot officiate offshoot fagine fashion fission fishiness Vishnu vision aviation efficient oafishness officiant offishness ovation fishman fish-maw fishmonger fishmouth feature fisher fishweir fishworm future voucher voyager voyageur savagery facial fishhold fishily fishline fishwell fudgewheel vagile vetchling halfshell official fish-joint vitiation voyage-charter fasciation fetching fishgig fishhawk fishhook vouching voyaging half-jug fishfall fish-farming fishify fish-flour half-shaved fetch-up fishable fish-bellied fish-blooded fish-bone fishpond fishpound fishplate	voyagesvichyssoiseeffigiesofficioussavagesfidgetfishedfish-dayfishtailfishweedfitchetfugitivevegetablevegetarianvitiatehalf-sheethalf-shotofficiateoffshootfaginefashionfissionfishinessfishnetVishnuvisionaviationefficienteffusionoafishnessofficiantoffishnessovationsufficientfishmanfish-mawfishmongerfishmouthavouchmentfeaturefisherfishweirfishwormfissurefuturevouchervoyagervoyageurofficiarysavageryfishlilyfishlinefishoilfacialfishholdfishilyfishlinefishoilfishwellfudgewheelvagilevetchlingvigilhalfshellofficialvoyage-charterfasciationfetchingfishgigfishhawkfishhookfishingvouchingvoyaginghalf-jugfishfallfish-farmingfishifyfish-flourfishwifehalf-shavedfetch-upfishablefish-belliedfish-bloodedfishbowlfish-bonefishpondfishpoundfishplatefishy-back

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

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

900	£:bo	folio	fibster	fores	nh a ahaa	Dhaabua
890	fibs	fobs		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		
	-					

000				:	Diana	
900	paces	passes	pauses	pieces	Pisces	possess
	poses	basis	bosses	buses	apsis	abscess
001	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	possum		
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	•	O
907	passkey	passing	pesky	pussycat	base-court	basic
	bascule	bask	basket	bazooka	bicycle	biscuit
	bisque	boscage	abscond	episcopal	obscure	opposing
	upswing	O		1 1		11 0
908	Pacific	pacifier	passive	peaceful	piassava	pussyfoot
	abusive	specific	1	1	1	1 /
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	- 30 P		P	y
-	zasysody	арынсер				

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
720	pensive	pianist	pincers	pounce	puns	banister
	benzine	bonus	bounce	bunnies	buoyancy	abeyance
	happiness	hypnosis	Bones		; ••	0, 44100
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	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

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

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	parrot				
942	parent	paranoid	paranymph	parentheses	prank	principle
	print	pronoun	prune	barn	barren	baron
	boron	born	brain	bran	branch	brand
	brandy	brawn	brink	bronco	bronze	brown
	burn	abhorrent	apparent	apprehend	apprentice	apron
	auburn					
943	paramount	paramour	preempt	permanent	permeate	permit
	premier	prime	primitive	primo	primrose	prominent
	promise	promote	prompt	pyramid	pyromaniac	barmaid
	brim	broom	barometer	brome		
944	pairer	parer	poorer	prairie	prayer	prerequisite
	prerogative	prewar	prior	priority	prorated	barrier
	bearer	borer	borrower	brewer	briar	uproar

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

950	palace	pals	place	placebo	placid	plasma
, , ,	plaza	plaster	please	plus	police	policy
	polestar	pollster	pulse	ballast	blaspheme	blast
	blaze	blessing	bliss	blister	blizzard	blouse
	bluster	bolster	bluestocking	bylaws	bulls-eye	applause
	hapless	upholstery	hopeless	2 ) 14.1.5	z diliz ey e	арримое
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	Pluto		,
952	paleness	plain	plaint	plane	plank	plankton
	plant	plenty	plunder	pollen	balance	balloon
	baloney	beeline	bland	blank	blanket	blend
	blind	blink	blonde	bluenose	blunt	bologna
	bowline	bullion	by-line	appliance	opulent	upland
953	palmetto	palominos	pall-mall	playmate	plum	plume
	plumb	plumber	plump	polemic	polymer	blame
	blemish	blimp	bloom	bloomers	boloman	bolometer
	aplomb	sublime	supplement			
954	pallor	peeler	pillar	pillory	pliers	player
	plower	plural	polar	puller	bailor	billiards
	blower	boiler	bowler	bullring	bulrush	bulwark
	applier	supplier				
955	palolo	playland	playlet	pool-hall	balalaika	blue-law
	boll-hull	bullwheel		_		
956	pillage	pleasure	pledge	plush	polish	polution
	belch	bleach	bilge	blotch	bludgeon	bluejay
	blush	bulge	bullish	ablution	abolish	appellation
	apology	applejack	oblige	whiplash	splash	
957	paling	pelican	pilgrim	playing	placard	placate
	plague	plaque	playground	pluck	polecat	polygamy
	polyglot	polygon	bailiwick	balcony	belong	billycock
	black	block	bloke	blowgun	bulk	bull-oak
	bullock	bullying	applicant	appealing	spelling	
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
	hallbarr	blip	blooper	blowup	blueberry	bluebird
	bellboy					
	bulb applepie	bluebonnet epileptic	bullpen Bilbo	bullpup	bullwhip	bullyboy

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

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	_			
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		

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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
	Pepsi					
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	BEBOP	pipable	pipe-band	pipe-opener	poppy-bee	pop-up
	baby-boy	baobab	pep-up	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				