#### important

#### record

1212 ajar 1213 alarmeloek

| of   | 1703            |                              |
|--|-----------------|------------------------------|
| OI .   | cashew          | 2225 day to                  |
|  | 613 cathedral   | 2226 dazzler                 |
|  | 1614 caucasian  | 2231 dealer                  |
|  | 1615 caviar     | 2232 debris                  |
|  | 1616 ceasefire  | 2233 decal                   |
|  | 1621 cedar      | 2234 dedicate                |
|  | 1622 celery     | 2235 deepness                |
|  | 1623 cement     | 2236 defrost                 |
| 7  | 1624 census     | 2241 degree                  |
| neer   | 1625 ceramics   | 2242 dehydrator              |
| torium   | 1626 cesspool   | 2243 deliverer               |
| nented   | 1631 chalkboard | 2244 democrat                |
| licious  | 1632 cheesecake | 2245 dentist                 |
| mobile   | 1633 chimney    | 2246 deadorant               |
| siliary  | 1634 chlorine   | 2251 depot                   |
| alanche  | 1635 chopsticks | 2252 deranged                |
| enue   | 1636 chrome     | Thingesktop                  |
| viator   | 1641 chute      | 2254 detergent               |
| 1925 avocado   | 1642 cilantro   | 2255 device                  |
| 1426 awareness   | 1643 cinnamon   | 2256 dexterity               |
| while  | immontant       | 2261 diamond                 |
| wkward   | 1645 cityscape  | 2262 dibs<br>2263 dictionary |
| wning  | 1646 civilian   | 2263 dictionary              |
| ening<br>oke   | 1651 clay       | 2264 diffuser                |
| fally  | 1652 clergy man | 2265 digit                   |
| al ea  | 1653 clipboard  | 2266 dilated                 |
| bling  | 1654 clock      | 2311 dimple                  |
| kpack  | 1655 clubhouse  | 2312 dinnerware              |
| es   | 1656 coathanger | 2313 dioxide                 |
| í pe   | 1661 cobweb     | 2314 diploma                 |
| EY   | 1662 coconut    | 2315 directory               |
| fring  | 1663 codeword   | 2316 dishcloth               |
| The same of the sa | 1664 coexistent | 2321 ditto                   |
|  | 1665 coffeecake | 2322 dividers                |
| The second second  | 1666 cognitive  | 2323 dizzini                 |
|  | 2111 cohabitate | 2324 de                      |
|  | 1112 collarbone | 232                          |

## Record of Important Things

If found, please return to:

Simply, people can no longer remember passwords good enough to reliably defend against dictionary attacks, and are much more secure if they choose a password too complicated to remember and then write it down. We're all good at securing small pieces of paper. I recommend that people write their passwords down on a small piece of paper, and keep it with their other valuable small pieces of paper: in their wallet.

Bruce Schneier

| 1. S | ecure passphrases w | rith Diceware |
|------|---------------------|---------------|
| 3. E | EFF word list short | version 2.0   |
| 7    |                     | 15            |
| 8    |                     | 16            |
| 9    |                     | 17            |
| 10   |                     | 18            |
| 11   |                     | 19            |
| 12   |                     | 20            |
| 13   |                     | 21            |
| 14   |                     | 22            |
| 23   | Security questions  |               |

#### Scene - i

Two women sit in a dark room in front of a computer.

Margaret This information needs to stay secret.

Harriet Calm down, it's encrypted with a password nobody can guess: r 4 b @ b 1 t \$

MARGARET A simple word with substitutions and insertions? You've got to be kidding me, Harriet, a twelve-year-old computer could break that in milliseconds.

Harriet Then you make the password.

 ${\tt Margaret} \ \ (\textit{grabs four dice}) \ {\tt I'll \ make \ a \ Diceware \ passphrase}.$ 

Margaret rolls the dice

Margaret 1 6 6 6; that's cognitive.

She rolls the dice again

Margaret 5 1 5 6; that's poetic.

Harriet What's a passphrase?

MARGARET A password made from words stuck together.

And with enough words chosen randomly, reasonably secure.

Margaret rolls the dice three more times

Harriet How obscure; I'll never remember these numbers.

MARGARET 5 3 5 6 3 2 2 3 5 6 2 6; your passphrase is cognitive poetic ribbon garlic smelliness.

HARRIET I won't call that poetic, but I can probably remember it. Thanks, Marge.

## What is a Diceware passphrase?

A passphrase is a list of words that you type into your computer to let it know for sure that *the person typing is you*. Passphrases differ from passwords only in length.

Diceware is a method for picking passphrases which uses dice to select words at random from a special list. Each word in the list is preceded by a four digit number. All the digits are between one and six, allowing you to use the outcomes of four dice rolls to select a word from the list.

#### Directions

- 1 Decide how many words you want in your passphrase. A five-word passphrase provides a level of security much higher than the passwords most people use. For NSA-proof security, use seven words.
- 2 Roll all four dice at once and write the results down, reading from left to right, on a scrap of paper. Make as many of these four-digit groups as you want words in your passphrase.
- 3 Flip to the word list and look up the corresponding word next to each four-digit number.
- 4 The words you have found are your new passphrase!
- 5 Come up with a way to remember your phrase. It might be a story, mental picture, or sentence that will remind you of the phrase you generated.

Your passphrase is one of the 3,656,158,440,062,976 ( $6^{20}$ ) alternatives that could have been chosen by this method.

| 1111   | aardvark   | 1324   | aguamarine   | 1541 buddhist  | 2154 cuticle   |
|--|--|--|--|--|--|
| 1112   | abandoned  | 1325   | arachnid   | 1542 buffalo   | 2155 cybernetic  |
| 1112   | abandoned  | 1226   | aracimiu   | 1542 bullfrog  | 2156 cyclist   |
| 1114   | abdomon  | 1221   | ardontly   | 1544 buppy   | 2161 cylindor  |
| 1115   | - bb   | 1222   | ardentry   | 1545 bush  | 2162   |
| 1116   | abilding   | 1222   | arena<br>arena   | 1546 buggard   | 2162 cymbai<br>2162 cymiaiam   |
| 1110   | abiding  | 1224   | argument   | 1540 Buzzard   | 2163 Cynicism  |
| 1121   | abnormai   | 1334   | aristocrat   | 1331 Cabin   | 2104 Cypress   |
| 1122   | abrasion   | 1335   | armchair   | 1552 cactus  | 2165 cytoplasm   |
| 1123   | absorbing  | 1336   | aromatic   | 1553 cadillac  | 2166 dachshund   |
| 1124   | abundant   | 1341   | arrowhead  | 1554 cafeteria   | 2211 daffodil  |
| 1125   | abyss  | 1342   | arsonist   | 1555 cage  | 2212 dagger  |
| 1126   | academy  | 1343   | artichoke  | 1556 cahoots   | 2213 dairy   |
| 1131   | accountant   | 1344   | asbestos   | 1561 cajoling  | 2214 dalmatian   |
| 1132   | acetone  | 1345   | ascend   | 1562 cakewalk  | 2215 dandelion   |
| 1133   | achiness   | 1346   | aseptic  | 1563 calculator  | 2216 dartboard   |
| 1134   | acid   | 1351   | ashamed  | 1564 camera  | 2221 dastardly   |
| 1135   | acoustics  | 1352   | asinine  | 1565 canister  | 2222 datebook  |
| 1136   | acquire  | 1353   | asleep   | 1566 capsule   | 2223 daughter  |
| 1141   | acrobat  | 1354   | asocial  | 1611 carrot  | 2224 dawn  |
| 1142   | actress  | 1355   | asparagus  | 1612 cashew  | 2225 daytime   |
| 1143   | acuteness  | 1356   | astronaut  | 1613 cathedral   | 2226 dazzler   |
| 1144   | aerosol  | 1361   | asymmetric   | 1614 caucasian   | 2231 dealer  |
| 1145   | aesthetic  | 1362   | atlas  | 1615 caviar  | 2232 debris  |
| 1146   | n ffidavit   | 1262   | atmosphore   | 1616 concefive   | 2222 deepl   |
| 1151   | n floor  | 1264   | atmosphere   | 1621 coder   | 2224 dediente  |
| 1152   | n froid  | 1265   | atom   | 1622 colory  | 2225 deeppess  |
| 1152   | arraid.  | 1000   | atrocious  | 1022 Celely  | 2233 deephess  |
| 1155   | aitersnave   | 1300   | attic  | 1025 cement  | 2230 derrost   |
| 1154   | again  | 1411   | atypicai   | 1624 census  | 2241 degree  |
| 1155   | agency   | 1412   | auctioneer   | 1625 ceramics  | 2242 denydrator  |
| 1156   | aggressor  | 1413   | auditorium   | 1626 cesspool  | 2243 deliverer   |
| 1161   | aghast   | 1414   | augmented  | 1631 chalkboard  | 2244 democrat  |
| 1162   | agitate  | 1415   | auspicious   | 1632 cheesecake  | 2245 dentist   |
| 1163   | agnostic   | 1416   | automobile   | 1633 chimney   | 2246 deodorant   |
| 1164   | agonizing  | 1421   | auxiliary  | 1634 chlorine  | 2251 depot   |
| 1165   | agreeing   | 1422   | avalanche  | 1635 chopsticks  | 2252 deranged  |
| 1166   | aidless  | 1423   | avenue   | 1636 chrome  | 2253 desktop   |
| 1211   | aimlessly  | 1424   | aviator  | 1641 chute   | 2254 detergent   |
| 1212   | ajar   | 1425   | avocado  | 1642 cilantro  | 2255 device  |
| 1213   | alarmelock   | 1426   | awareness  | 1643 cinnamon  | 2256 dexterity   |
| 1214   | albatross  | 1431   | awhile   | 1644 circle  | 2261 diamond   |
| 1215   | alchemy  | 1432   | awkward  | 1645 cityscape   | 2262 dibs  |
| 1216   | alfalfa  | 1433   | awning   | 1646 civilian  | 2263 dictionary  |
| 1221   | algae  | 1434   | awoke  | 1651 clay  | 2264 diffuser  |
| 1222   | aliens   | 1435   | avially  | 1652 clergyman   | 2265 digit   |
| 1222   | alkalina   | 1426   | ngalon   | 1652 clipboard   | 2266 dilated   |
| 1223   | - l  | 1441   | b - b b li   | 1654 -ll-  | 2211 1:1-  |
| 1224   | almanac  | 1441   | babbing  | 1654 CIOCK   | 2311 dimple  |
| 1223   | alongside  | 1442   | Dackpack   | 1055 Ciubnouse   | 2312 dinnerware  |
| 1226   | aipnabet   | 1443   | badass   | 1656 coatnanger  | 2313 dioxide   |
| 1231   | aiready  | 1444   | Dagpipe  | 1661 CODWED  | 2314 dipioma   |
| 1232   | aiso   | 1445   | Dakery   | 1662 coconut   | 2315 directory   |
| 1233   | altitude   | 1446   | balancing  | 1663 codeword  | 2316 dishcloth   |
| 1234   | aluminum   | 1451   | bamboo   | 1664 coexistent  | 2321 ditto   |
| 1235   | always   | 1452   | banana   | 1665 coffeecake  | 2322 dividers  |
| 1236   | amazingly  | 1453   | barracuda  | 1666 cognitive   | 2323 dizziness   |
| 1241   | ambulance  | 1454   | basket   |  |  |
| 1242   | amendment  |  |  | 2111 Collabitate   | 2324 doctor  |
| 1243   |  | 1400   | bathrobe   | 2112 collarbone  | 2324 doctor<br>2325 dodge  |
|  | amiable  | 1456   | bazooka  | 2112 collarbone<br>2113 computer   | 2324 doctor<br>2325 dodge<br>2326 doll   |
| 1244   | amiable<br>ammunition  | 1456<br>1461   | bazooka<br>blade   | 2112 collarbone<br>2113 computer<br>2114 confetti  | 2324 doctor<br>2325 dodge<br>2326 doll<br>2331 dominoes  |
| $\frac{1244}{1245}$  | amiable<br>ammunition<br>amnesty   | 1456<br>1461<br>1462   | bazooka<br>blade<br>blender  | 2112 collarbone<br>2113 computer<br>2114 confetti<br>2115 copier   | 2324 doctor<br>2325 dodge<br>2326 doll<br>2331 dominoes<br>2332 donut  |
| $^{1244}_{1245}_{1246}$  | amiable<br>ammunition<br>amnesty<br>amoeba   | 1456<br>1461<br>1462<br>1463   | bazooka<br>blade<br>blender<br>blimp   | 2112 collarbone<br>2113 computer<br>2114 confetti<br>2115 copier<br>2116 cornea  | 2324 doctor<br>2325 dodge<br>2326 doll<br>2331 dominoes<br>2332 donut<br>2333 doorstep   |
| $\begin{array}{c} 1244 \\ 1245 \\ 1246 \\ 1251 \end{array}$  | amiable<br>ammunition<br>amnesty<br>amoeba<br>amplifier  | 1456<br>1461<br>1462<br>1463<br>1464   | bazooka<br>blade<br>blender<br>blimp<br>blouse   | 21112 collarbone<br>2113 computer<br>2114 confetti<br>2115 copier<br>2116 cornea<br>2121 cosmetics   | 2324 doctor<br>2325 dodge<br>2326 doll<br>2331 dominoes<br>2332 donut<br>2333 doorstep<br>2334 dorsal  |
| 1244<br>1245<br>1246<br>1251<br>1252   | amiable<br>ammunition<br>amnesty<br>amoeba<br>amplifier<br>amuser  | 1456<br>1461<br>1462<br>1463<br>1464<br>1465   | bazooka<br>blade<br>blender<br>blimp<br>blouse<br>blurred  | 21112 collarbone<br>2113 computer<br>2114 confetti<br>2115 copier<br>2116 cornea<br>2121 cosmetics<br>2122 cotton  | 2324 doctor<br>2325 dodge<br>2326 doll<br>2331 dominoes<br>2332 donut<br>2333 doorstep<br>2334 dorsal<br>2335 double   |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253   | amiable<br>ammunition<br>amnesty<br>amoeba<br>amplifier<br>amuser<br>anagram   | 1456<br>1461<br>1462<br>1463<br>1464<br>1465<br>1466   | bazooka<br>blade<br>blender<br>blimp<br>blouse<br>blurred<br>boatyard  | 2112 collarbone<br>2113 computer<br>2114 confetti<br>2115 copier<br>2116 cornea<br>2121 cosmetics<br>2122 cotton<br>2123 couch   | 2324 doctor<br>2325 dodge<br>2326 doll<br>2331 dominoes<br>2332 donut<br>2333 doorstep<br>2334 dorsal<br>2335 double<br>2336 downstairs  |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254   | amiable<br>ammunition<br>amnesty<br>amoeba<br>amplifier<br>amuser<br>anagram<br>anchor   | 1456<br>1461<br>1462<br>1463<br>1464<br>1465<br>1466   | batrobe<br>bazooka<br>blade<br>blender<br>blimp<br>blouse<br>blurred<br>boatyard<br>bobcat   | 2112 collarbone<br>2113 computer<br>2114 confetti<br>2115 copier<br>2116 cornea<br>2121 cosmetics<br>2122 cotton<br>2123 couch<br>2124 coverless   | 2324 doctor<br>2325 dodge<br>2326 doll<br>2331 dominoes<br>2332 donut<br>2333 doorstep<br>2334 dorsal<br>2335 double<br>2336 downstairs<br>2341 dozed  |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1255   | amiable<br>ammunition<br>amnesty<br>amoeba<br>amplifier<br>amuser<br>anagram<br>anchor<br>android  | 1456<br>1461<br>1462<br>1463<br>1464<br>1465<br>1466<br>1511   | batirobe bazooka blade blender blimp blouse blurred boatyard bobcat body   | 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornea 2121 cosmetics 2122 cotton 2123 couch 2124 coverless 2125 covote   | 2324 doctor<br>2325 dodge<br>2326 doll<br>2331 dominoes<br>2332 donut<br>2333 doorstep<br>2334 dorsal<br>2335 double<br>2336 downstairs<br>2341 dozed<br>2342 drainpipe  |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1255<br>1256   | amiable ammunition amnesty amoeba amplifier amuser anagram anchor android anesthesia   | 1456<br>1461<br>1462<br>1463<br>1464<br>1465<br>1466<br>1511<br>1512   | baznoka blade blender blimp blouse blurred boatyard bobcat body bogusness  | 2112 collarbone<br>2113 computer<br>2114 confetti<br>2115 copier<br>2116 cornea<br>2121 cosmetics<br>2122 cotton<br>2123 couch<br>2124 coverless<br>2125 coyote<br>2126 coziness   | 2324 doctor<br>2325 dodge<br>2326 doll<br>2331 dominoes<br>2332 donut<br>2333 doorstep<br>2334 dorsal<br>2335 double<br>2336 downstairs<br>2341 dozed<br>2342 drainpipe<br>2343 desser   |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1255<br>1256<br>1261   | amiable ammunition amnesty amoeba amplifier amuser anagram anchor android anesthesia angelfish   | 1456<br>1461<br>1462<br>1463<br>1464<br>1465<br>1466<br>1511<br>1512<br>1513<br>1514   | bacnobe bazooka blade blender blimp blouse blurred boatyard bobcat body bogusness bohemian   | 2112 collarbone 2113 computer 2114 confett 2115 copier 2116 cornea 2121 cosmetics 2122 cotton 2123 couch 2124 coverless 2125 coyote 2126 coziness 2131 crawfish  | 2324 doctor<br>2325 dodge<br>2326 doll<br>2331 dominoes<br>2332 donut<br>2333 dorstep<br>2334 dorsal<br>2335 double<br>2336 downstairs<br>2341 dozed<br>2342 drainpipe<br>2343 dresser<br>2344 driftwood   |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1255<br>1256<br>1261   | amiable ammunition amnesty amoeba amplifier amuser anagram anchor android anesthesia angelfish animal  | 1456<br>1461<br>1462<br>1463<br>1464<br>1465<br>1466<br>1511<br>1512<br>1513<br>1514<br>1515   | bacnobe bazooka blade blender blimp blouse blurred boatyard bobcat body bogusness bohemian boiler  | 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornea 2121 cosmetics 2122 cotton 2123 couch 2124 coverless 2125 coyotes 2125 coyotes 2131 cawfish 2132 crawmember  | 2324 doctor 2325 dodge 2326 doll 2331 dominoes 2332 donut 2333 doorstep 2334 dorsal 2335 double 2336 downstairs 2341 dozed 2342 drainpipe 2343 dresser 2344 driftwood 2345 droppings   |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1255<br>1256<br>1261<br>1262<br>1263   | amiable<br>ammunition<br>amnesty<br>amoeba<br>amplifier<br>amuser<br>anagram<br>anchor<br>android<br>anesthesia<br>angelfish<br>animal<br>anklet   | 1456<br>1461<br>1462<br>1463<br>1464<br>1465<br>1466<br>1511<br>1512<br>1513<br>1513<br>1515<br>1516   | baznoka blade blender blimp blouse blurred boatyard bobcat body bogusness bohemian boiler bonnet   | 2112 collarbone 2113 collarbone 2113 computer 2114 confetti 2115 copier 2116 copier 2121 cosmetics 2121 cosmetics 2122 cotton 2123 couch 2124 coverless 2126 coziness 2126 coziness 2131 crawfish 2132 crewmember 2133 cris  | 2324 doctor<br>2325 dodge<br>2326 doll<br>2331 dominoes<br>2332 donut<br>2333 doorstep<br>2334 dorsal<br>2335 double<br>2336 downstairs<br>244 dozepipe<br>2342 dresser<br>2344 dresser<br>2344 driftwood<br>2345 droppings<br>2346 drum   |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1255<br>1256<br>1261<br>1262<br>1263<br>1264   | amiable ammunition amnesty amoeba amplifier amuser anagram anchor android anesthesia angelfish animal anklet announcer   | 1456<br>1461<br>1462<br>1463<br>1464<br>1465<br>1466<br>1511<br>1512<br>1513<br>1514<br>1515<br>1516<br>1521   | baurobe bazooka blade blender blimp blomse blomse blomsed boatyard bobcat body bogusness bohemian boiler bonnet  | 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornea 2121 cosmetics 2122 cotton 2123 couch 2124 coverless 2125 coytee 2126 coziness 2127 coziness 2127 coziness 2128 coziness 2129 coziness 2121 coziness 2121 coziness 2121 coziness 2122 coziness 2123 crawfish   | 2324 doctor 2325 dodge 2326 doll 2331 dominoes 2332 donut 2333 doorstep 2334 dorsal 2335 double 2336 downstairs 2341 dozed 2342 drainpipe 2343 dresser 2344 driftwood 2345 droppings 2346 drum 2341 dryer  |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1255<br>1256<br>1261<br>1262<br>1263<br>1264<br>1265   | amiable ammunition amnesty amoeba amplifier amuser anagram anchor android anesthesia angelfish animal anklet announcer   | 1456<br>1461<br>1462<br>1463<br>1464<br>1465<br>1466<br>1511<br>1512<br>1513<br>1514<br>1515<br>1516<br>1522   | bazooka blade blender blimp blouse blurred boatyard bobcat body bogusness bohemian boiler boons  | 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornea 2121 cosmetics 2122 cotton 2122 cotton 2124 coverless 2125 coyote 2126 coziness 2131 crawfish 2132 crawmember 2133 crib 2133 crib 2134 croissalt   | 2324 doctor<br>2325 dodge<br>2326 doll<br>2331 dominoes<br>2332 donut<br>2333 doorstep<br>2334 dorsal<br>2335 double<br>2342 drainpipe<br>2344 drainpipe<br>2344 driftwood<br>2342 drainpipe<br>2345 drospings<br>2345 drospings<br>2351 dryar<br>2351 dryar<br>2351 dryar   |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1255<br>1256<br>1261<br>1262<br>1263<br>1264<br>1265   | amiable<br>ammunition<br>amnesty<br>amoeba<br>amplifier<br>amuser<br>anagram<br>anchor<br>anesthesia<br>angelfish<br>animal<br>anklet<br>announcer<br>announcer  | 1456<br>1461<br>1462<br>1463<br>1464<br>1465<br>1466<br>1511<br>1513<br>1514<br>1515<br>1516<br>1521<br>1522   | bathrobe bazooka blade blender blimp blouse blurred boatyard bobcat body boguness body boguness bonemian bomet boots borough boresibese  | 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 corne 2116 corne 2121 corne 2122 cotton 2123 couch 2124 coverless 2125 coyotes 2121 coyotes 2121 corne 2121 crewmember 2132 crewmember 2133 crib 2133 crib 2134 croissant 2135 crumble  | 2324 doctor<br>2325 dodge<br>2326 doll<br>2331 dominoes<br>2332 donut<br>2335 doorstep<br>2335 double<br>2336 double<br>2336 double<br>2346 dorsester<br>2341 dozed<br>2342 drainpipe<br>2343 dresser<br>2344 driftwood<br>2346 droppings<br>2346 drum<br>2351 dryer<br>2352 dubiously   |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1256<br>1261<br>1262<br>1263<br>1264<br>1265<br>1266   | amiable<br>ammunition<br>amnesty<br>amoeba<br>amplifier<br>amuser<br>anagram<br>anchor<br>android<br>anesthesia<br>angelfish<br>animal<br>anklet<br>announcer<br>annownous<br>answer   | 1456<br>1461<br>1462<br>1463<br>1464<br>1465<br>1466<br>1511<br>1512<br>1513<br>1514<br>1515<br>1516<br>1521<br>1522<br>1523   | batthook battook battook bleder blimp blouse blurred boatyard bobcat body bogusness bohemian boiler bonnet boots borough bossiness   | 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornea 2121 cosmetics 2122 cotton 2123 couchess 2125 coyote 2126 coziness 2131 crawfish 2132 crib 2134 croissant 2135 crumble 2134 croissant 2135 crumble 2136 crystal  | 2324 doctor<br>2325 dodge<br>2326 doll<br>2331 dominos<br>2331 dominos<br>2331 dorstep<br>2334 dorsal<br>2335 double<br>2336 downstairs<br>2341 dozed<br>2342 drainpe<br>2342 drainpe<br>2344 driffwood<br>2346 droppings<br>2346 drum<br>2351 dryer<br>2352 dubiously<br>2353 duckling  |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1255<br>1261<br>1262<br>1263<br>1264<br>1265<br>1266<br>1311   | amiable ammunition amnesty amoeba amplifier amuser anagram anagram android anesthesia angelfish animal anklet announcer anonymous answer antelope  | 1456<br>1461<br>1462<br>1463<br>1464<br>1465<br>1511<br>1512<br>1513<br>1514<br>1515<br>1521<br>1522<br>1523<br>1524   | bascocka blade blade blender blimp blouse blurred boatyard body boshemian boiler bonnet boots borough bossiness bottle   | 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornea 2121 cosmetics 2121 cosmetics 2122 cosmetics 2123 couch 2124 coverless 2125 coyote 2126 coziness 2131 crawfish 2134 croissant 2134 croissant 2135 crumble 2136 crystal 2136 crystal 2141 cubical   | 2324 doctor<br>2325 dodge<br>2326 doli<br>2326 doli<br>2326 doli inioes<br>2332 donut<br>2333 doorstep<br>2334 dorsal<br>2335 double<br>2342 drainpipe<br>2342 drainpipe<br>2344 driftwood<br>2345 droppings<br>2352 dubiously<br>2352 dubiously<br>2354 duckling<br>2354 durfel   |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1255<br>1266<br>1261<br>1262<br>1263<br>1264<br>1265<br>1266<br>1311<br>1312   | amiable<br>ammunition<br>amnesty<br>amoeba<br>amplifier<br>anagram<br>anchor<br>android<br>anesthesia<br>angelfish<br>animal<br>announcer<br>annoymous<br>answer<br>antelope<br>anxiety  | 1456<br>1461<br>1462<br>1463<br>1464<br>1465<br>1466<br>1511<br>1512<br>1514<br>1515<br>1516<br>1521<br>1522<br>1523<br>1524<br>1524   | baxooka blade blender blimp blouse blurred blurred bobcat body bogusness bothemian boiler borssiness borough bossiness bottle bouquet  | 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 copier 2121 cornetti 2121 cornetti 2122 cotton 2123 couch 2124 coverless 2124 coverless 2131 crawfish 2132 crewmember 2131 crawfish 2132 crewmember 2135 crumble 2136 crystal 2136 crystal 2141 cubical   | 2324 doctor<br>2325 dodge<br>2326 doll<br>2331 domit<br>2333 domstep<br>2334 dorstep<br>2334 dorsal<br>2336 downstairs<br>2341 dozed<br>2342 drainjpe<br>2343 dresser<br>2342 drainjpe<br>2344 drupngs<br>2346 drum<br>2351 dryer<br>2352 dubiously<br>2353 duydling<br>2354 duffel  |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1255<br>1266<br>1261<br>1262<br>1263<br>1264<br>1265<br>1266<br>1311<br>1312<br>1313   | amiable ammunition amnesty amoeba amplifier amuser anagram anchor anchor angelfish animal anklet announcer anonymous answer antelope anxiety anyplace  | 1455<br>1466<br>1461<br>1462<br>1463<br>1464<br>1511<br>1512<br>1513<br>1514<br>1515<br>1516<br>1521<br>1522<br>1523<br>1524<br>1525<br>1526   | bascocke bascocke blade blender blimp blouse blurred boatyard bodyard bothe bounet boots borough bossiness bottle bouquet bouxlike   | 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornea 2121 cosmetics 2121 cosmetics 2121 cosmetics 2121 cosmetics 2122 coverless 2124 coverless 2125 coyote 2126 coziness 2131 crawfish 2132 crawmember 2132 crawmember 2134 crawfish 2134 crawf | 2324 doctor<br>2325 doge<br>2326 doli<br>2326 doli<br>2326 doli<br>2332 donut<br>2333 doorstep<br>2334 dorsal<br>2335 downstairs<br>2342 drainpipe<br>2342 drainpipe<br>2344 driffwood<br>2345 droppings<br>2346 droppings<br>2346 droppings<br>2346 droppings<br>2352 dubiously<br>2352 dubiously<br>2353 duckling<br>2354 duffel<br>2355 dugout  |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1255<br>1266<br>1261<br>1262<br>1263<br>1264<br>1265<br>1266<br>1311<br>1312<br>1313<br>1314   | amiable<br>ammunition<br>amnesty<br>amoeba<br>amplifier<br>anageram<br>anchor<br>android<br>anesthesia<br>angelfish<br>animal<br>anklet<br>animal<br>anklet<br>answer<br>answer<br>antelope<br>anxiety<br>anyplace<br>aorta  | 1455<br>1466<br>1461<br>1462<br>1463<br>1464<br>1465<br>1511<br>1512<br>1513<br>1514<br>1515<br>1522<br>1523<br>1524<br>1524<br>1526<br>1531   | baxooka blade blender blimp blouse blurred boatyard body bogusness bohemian boiler boots boots boots boots bouse bottle bootsike boxilike boxilike   | 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 corne 2116 corne 2121 corne 2122 cotton 2123 couch 2124 coverless 2125 coyote 21214 coverless 2121 corne 2121 crewmember 2131 crisent 2132 crewmember 2134 croissant 2135 crumble 2141 cubical 2141 cubical 2142 cucumber 2143 cuddly 2144 cudflink   | 2324 doctor 2325 dodge 2325 dodge 2321 dominoes 2332 donut 2333 doorstep 2334 dorsal 2334 dorsal 2334 dorsal 2334 dorsal 2334 driftwood 2342 drainpipe 2344 driftwood 2342 drainpipe 2354 dryer 2355 duckling 2355 duckling 2355 duckling 2355 dupout 2356 dumpater 2356 dum |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1256<br>1261<br>1262<br>1263<br>1264<br>1265<br>1266<br>1311<br>1312<br>1313<br>1314<br>1315   | amiable ammunition amnesty amoeba amoeba amoeba amimser anangram anchori animal animal anklet announcer announcer annowmous answer announcer announcer announcer announcer announcer announcer announcer announcer announcer   | 1453<br>1456<br>1461<br>1462<br>1463<br>1464<br>1465<br>1466<br>1511<br>1512<br>1514<br>1515<br>1516<br>1522<br>1523<br>1524<br>1525<br>1526<br>1531<br>1532                                 | batzooka blade blade blender blimp bloused boatyard bobeat body bogueness bohemian bonet borst borough bossiness borough bossiness borough bounet bounet bounet bounet bounet bounet bounet borough borough bounet b | 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornea 2121 cosmetics 2121 cosmetics 2122 cotton 2122 cotton 2124 coverless 2125 coyote 2126 coziness 2131 crawfish 2132 crewmember 2133 crib 2134 croissant 2136 crystal 2141 cubical 2142 cucumber 2143 cutflink 2144 cufflink 2145 cuisine   | 2324 doctor 2325 dodge 2326 doll 2326 doll 2331 doninous 2333 doorstep 2334 dorsal 2335 double 2336 downstairs 2341 dozed 2342 drainipe 2344 driftwood 2344 driftwood 2345 droppings 2346 drum 2352 dubiously 2352 dubiously 2355 dugout 2355 dugout 2355 dugout 2355 dugout 2356 dumpster 2362 durable  |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1256<br>1261<br>1262<br>1263<br>1264<br>1265<br>1266<br>1311<br>1312<br>1313<br>1314<br>1315   | amiable ammunition amnesty ammenty amplifier amplifier amuser anagram anchor anesthesia angelfish animal anklet announcer anonymous answer antelope anxiety anxiety apartment apartment apmen  | 1453<br>1463<br>1461<br>1462<br>1463<br>1464<br>1465<br>1511<br>1512<br>1513<br>1514<br>1515<br>1521<br>1522<br>1523<br>1524<br>1525<br>1526<br>1521<br>1523<br>1524<br>1525<br>1526<br>1531 | baszooka blade blender blimp blouse blurred boatyard bobcat bogusness bohemian boiler boots borough bossiness bouquet boxilike breath briefcase broom  | 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornetics 2116 cornetics 21210 cornetics 2122 cornetics 2122 coverless 2124 coverless 2125 coyote 2126 coziness 2126 coziness 2126 coziness 2127 cownember 2128 crawfish 2129 crawfish 2121 crawfish 2122 crawfish 2123 criber 2124 cuddly 2124 cuddly 2124 cudifink 21245 cuisine 21246 culprit  | 2324 doctor<br>2325 dodge<br>2326 dolige<br>2326 doliminoes<br>2332 donut<br>2333 doorstep<br>2334 dorsal<br>2334 dorsal<br>2342 drainpipe<br>2342 drainpipe<br>2343 dresser<br>2344 driftwood<br>2345 droppings<br>2352 dukling<br>2352 dubiously<br>2353 duckling<br>2354 durfet<br>2356 dumpster<br>2361 duplex<br>2362 durable<br>2363 durable<br>2363 durable<br>2363 durable<br>2363 durable<br>2363 durable<br>2363 durable   |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1265<br>1266<br>1261<br>1262<br>1263<br>1264<br>1265<br>1264<br>1311<br>1312<br>1313<br>1314<br>1315<br>1316                         | amiable ammunition amnesty amoeba amoeba amoeba anageram anchor android anesthesia angelfish anklet anklet announcer annowmous answer antelope autility anklet angelfish anklet announcer annoymous answer antelope autility autility autility autility angelfish angelfish announcer annoymous answer antelope antelope autility autility apartment appara  | 1453<br>1466<br>1461<br>1462<br>1463<br>1464<br>1515<br>1511<br>1512<br>1513<br>1524<br>1525<br>1526<br>1531<br>1531<br>1533<br>1534   | bawooka blade blender blimp blouse blimred blurred blurred bobat body bogusness bohemian boiler boots borough bossiness borough bots borte breath breath breath breath breath breath breath breath briefcase broom   | 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 copier 21210 corne 2121 cornetits 2121 coverless 2122 cotton 2123 couch 2124 coverless 2126 coyote 2121 coyote 2121 coyote 2121 coyote 2121 coyote 2122 coyote 2123 crewmember 2132 crewmember 2132 crewmember 2132 crewmember 2133 crismate 2134 cuddly 2142 cuddly 2142 cuddly 2144 cuddly 2145 cuisine 2146 culprit 2145 cuisine 2146 culprit 2145 cuisine   | 2324 doctor 2325 dodge 2326 doll 2331 dominos 2331 dominos 2331 dorstep 2334 dorsal 2335 double 2336 downstairs 2341 dozed 2346 drainpre 2342 drainpre 2344 driffwood 2346 droppings 2346 drum 2351 dryer 2352 dubiously 2353 duckling 2354 durfel 2354 durfel 2354 durpater 2354 durpater 2354 durpater 2354 durpater 2356 durpater 2361 durpater 2362 durable 2363 dustpan 2364 dutful   |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1256<br>1256<br>1261<br>1262<br>1263<br>1264<br>1311<br>1312<br>1313<br>1314<br>1315<br>1316<br>1321<br>1322                                 | amiable ammunition ammesty ammesty amplifier amplifier amplifier anderoid anagram android andr | 1453<br>1466<br>1461<br>1462<br>1463<br>1464<br>1511<br>1512<br>1513<br>1515<br>1516<br>1521<br>1522<br>1523<br>1524<br>1525<br>1531<br>1532<br>1533<br>1533                                 | bazooka blade blade blender blimp blouse bloused bootyard bobcat body bogumen boiler bonnet boorts borough borough borough borough borough borough borough borough borough breath breath breath breath breath broom brushes bubblegum  | 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornea 2121 cosmetics 2121 cosmetics 2121 cosmetics 2122 coveles 2124 coverless 2125 coyote 2126 coziness 2131 crawfish 2132 crawmember 2133 crawmember 2134 croissant 2135 crumble 2136 crystal 2141 cubical 2142 cucumber 2141 cubical 2142 cucumber 2144 cufflink 2145 cuisine 2146 culprit 2151 cup 2152 curry  | 2324 doctor 2325 dodge 2326 doli 2326 doli 2326 doli 2326 doli 2332 donut 2333 doorstep 2334 dorsal 2335 downstairs 2336 downstairs 2342 drainpipe 2342 drainpipe 2343 dresser 2344 driffwood 2345 droppings 2346 drum 2355 dukling 2355 dukling 2355 dugout 2355 dugout 2355 dugout 2356 dumpeter 2366 dumpeter 2366 dustpan 2364 dutiful 2363 dustpan 2364 dutiful   |
| 1244<br>1245<br>1246<br>1251<br>1252<br>1253<br>1254<br>1255<br>1266<br>1261<br>1262<br>1263<br>1264<br>1265<br>1266<br>1311<br>1312<br>1313<br>1314<br>1315<br>1316<br>1321<br>1322<br>1323 | amiable ammunition amnesty amoeba amplifier amoeba amplifier anagram anchor android anesthesia angelfish animal announcer announcer annowmous answer antelope anxiety anyplace applicae appartment apnea apostrophe apple apple  | 1453<br>1466<br>1461<br>1462<br>1463<br>1464<br>1465<br>1511<br>1512<br>1513<br>1514<br>1515<br>1516<br>1521<br>1522<br>1523<br>1524<br>1525<br>1526<br>1533<br>1533<br>1534<br>1535         | baxooka blade blender blimp blouse blurred blourer body bogusness body bogusness bohemian boiler borough borough borough borough borief boxilke boulet boxilke boulet boxilke broom briefcase broom brushes bubblegum buckle   | 1541 buddhist 1542 buffalo 1543 bullforg 1543 bullforg 1543 bullforg 1544 bullforg 1545 busboy 1546 busboy 1546 busboy 1551 cabin 1552 cactuac 1552 cactuac 1552 cactuac 1554 cafeteria 1555 cage 1556 cahoots 1556 cahoots 1561 cajoling 1562 catkwall 1563 cathedral 1664 canera 1565 canister 1566 capsulc 1611 carrot 1614 carcal 1615 caviar 1616 casaefire 1617 carrot 1618 cathedral 1614 caucasian 1616 casaefire 1617 caviar 1618 casaefire 1619 casaefire 1619 casaefire 1610 casaefire 1611 call canera 1612 call canera 1613 cathedral 1614 caucasian 1615 caviar 1616 casaefire 1616 casaefire 1616 casaefire 1617 carrot 1623 celeny 1624 census 1625 ceramics 1625 ceramics 1626 cathedral 1631 chalkboard 1632 cheesecake 1641 chute 1642 cilantro 1643 cilnamon 1644 circle 1644 circle 1644 circle 1641 cilape 1642 cilantro 1643 cilapboard 1644 circle 1644 circle 1645 coffecake 1666 coffecake 1666 coffecake 1666 cocathanger 1661 clay 1675 copier 1676 cocathanger 1677 copier 1777 copier 1778 copier | 2324 doctor<br>2325 dodge<br>2325 dodge<br>2321 dominoes<br>2332 domit<br>2333 doorstep<br>2334 dorsal<br>2334 dorsal<br>2334 dorsal<br>2342 drainpipe<br>2344 driffwood<br>2342 drainpipe<br>2343 dressor<br>2344 dressor<br>2352 dubiously<br>2352 dubiously<br>2355 dubiously<br>2356 dumpater<br>2356 dumpater<br>2361 duriful<br>2361 duriful<br>2363 duriful<br>2364 dutiful<br>2365 duwarfism   |

| 2411 dwelling   | 2624 evacuation   | 3241 gesture   | 3454 hygienist   |
|---|---|--|--|
| 2412 dwindling  | 2625 evergreen  | 3242 getaway   | 3455 hypnotist   |
| 2412 dwinding   | 2626 ovidence   | 2242 getaway   | 2456 ibuprofor   |
| 2413 dynamite   | 2621 evolution  | 2244 ghoulidhly  | 2461 icopnole  |
| 2414 dysiexia   | 2632  | 3244 ghounshiy   | 2460 i-i   |
| 2416 carlobo  | 2622 exam   | 2246 giddings  | 2462 iconic  |
| 2416 earlobe  | 2633 excerpt  | 3246 giddiness   | 2464 :   |
| 2421 easer  | 2034 exerciser  | 3231 girtshop  | 3464 Identical   |
| 2422 eavesdrop  | 2635 extoliate  | 3252 gigabyte  | 3465 idiocy  |
| 2423 ebook  | 2636 exhale   | 3253 gimmick   | 3466 idly  |
| 2424 eccentric  | 2641 exist  | 3254 giraffe   | 3511 igloo   |
| 2425 echoless   | 2642 exorcist   | 3255 giveaway  | 3512 ignition  |
| 2426 eclipse  | 2643 explode  | 3256 gizmo   | 3513 iguana  |
| 2431 ecosystem  | 2644 exquisite  | 3261 glasses   | 3514 illuminate  |
| 2432 ecstasy  | 2645 exterior   | 3262 gleeful   | 3515 imaging   |
| 2433 edged  | 2646 exuberant  | 3263 glisten   | 3516 imbecile  |
| 2434 editor   | 2651 fabric   | 3264 glove   | 3521 imitator  |
| 2435 educator   | 2652 factory  | 3265 glucose   | 3522 immigrant   |
| 2436 eelworm  | 2653 faded  | 3266 glycerin  | 3523 imprint   |
| 2441 eerie  | 2654 failsafe   | 3311 gnarly  | 3524 iodine  |
| 2442 effects  | 2655 falcon   | 3312 gnomish   | 3525 ionosphere  |
| 2443 eggnog   | 2656 family   | 3313 goatskin  | 3526 ipad  |
| 2444 egomaniac  | 2661 fanfare  | 3314 goggles   | 3531 inhone  |
| 2445 ejection   | 2662 factor   | 2215 goldfish  | 2522 ividescent  |
| 2446 election   | 2662 fauget   | 2216 gong  | 2522 inksome   |
| 2451 albow  | 2664 favorito   | 2221 googy   | 2524 iron  |
| 2451 elbow  | 2004 lavolite   | 3321 goody   | 2525 ii+i  |
| 2452 elderry  | 2000 leasibly   | 3322 gorgeous  | osoc : 1   |
| 2453 elephant   | 2000 february   | 3323 gosiing   | 3536 Island  |
| 2454 einsniy  | 3111 federal  | 3324 gotnic  | 3541 isotope   |
| 2455 eliminator   | 3112 feedback   | 3325 gourmet   | 3542 issueless   |
| 2456 elk  | 3113 feigned  | 3326 governor  | 3543 italicize   |
| 2461 elliptical   | 3114 feline   | 3331 grape   | 3544 itemizer  |
| 2462 elongated  | 3115 femur  | 3332 greyhound   | 3545 itinerary   |
| 2463 elsewhere  | 3116 fence  | 3333 grill   | 3546 itunes  |
| 2464 elusive  | 3121 ferret   | 3334 groundhog   | 3551 ivory   |
| 2465 elves  | 3122 festival   | 3335 grumbling   | 3552 jabbering   |
| 2466 emancipate   | 3123 fettuccine   | 3336 guacamole   | 3553 jackrabbit  |
| 2511 embroidery   | 3124 feudalist  | 3341 guerrilla   | 3554 jaguar  |
| 2512 emcee  | 3125 feverish   | 3342 guitar  | 3555 jailhouse   |
| 2513 emerald  | 3126 fiberglass   | 3343 gullible  | 3556 jalaneno  |
| 2514 emission   | 3131 fictitions   | 3344 gumdron   | 3561 jamboree  |
| 2515 emoticon   | 3132 fiddle   | 3345 gurgling  | 3562 janitor   |
| 2516 emperor  | 3133 figurine   | 3346 gueto   | 3563 jarring   |
| 2521 omulato  | 2124 6llot  | 2251 gutlogg   | 2564 incrning  |
| 2522 emulate  | 2125 Spolist  | 2252 gumpact   | 2565 inundice  |
| 2522 enactment  | 2126 Goodly   | 2252 gymnast   | 2566 jaundice  |
| 2525 enchilada  | 3130 Histarry   | 3333 gynecology  | 3300 Jaw Dreaker   |
| 2524 endorpnin  | 3141 fixture  | 3354 gyration  | 3611 jaywaiker   |
| 2525 energy   | 3142 Hashiight  | 3355 nabitat   | 3612 jazz  |
| 2526 enforcer   | 3143 Hesniness  | 3356 nacking   | 3613 jeaious   |
| 2531 engine   | 3144 flight   | 3361 naggard   | 3014 Jeep  |
| 2532 enhance  | 3145 Horist   | 3362 haiku   | 3615 jelly   |
| 2533 enigmatic  | 3146 Hypaper  | 3363 halogen   | 3616 jeopardize  |
| 2534 enjoyably  | 3151 foamless   | 3364 hamburger   | 3621 jersey  |
| 2535 enlarged   | 3152 focus  | 3365 handgun   | 3622 jetski  |
| 2536 enormous   | 3153 foggy  | 3366 happiness   | 3623 jezebel   |
| 2541 enquirer   | 3154 folksong   | 3411 hardhat   | 3624 jiffy   |
| 2542 enrollment   | 3155 fondue   | 3412 hastily   | 3625 jigsaw  |
| 2543 ensemble   | 3156 footpath   | 3413 hatchling   | 3626 jingling  |
| 2544 entryway   | 3161 fossil   | 3414 haughty   | 3631 jobholder   |
| 2545 onunciato  |   |  |  |
|   | 3162 fountain   | 3415 hazelnut  | 3632 jockstrap   |
| 2546 envoy  | 3162 fountain<br>3163 fox   | 3415 hazelnut<br>3416 headband   | 3632 jockstrap<br>3633 jogging   |
| 2546 envoy<br>2551 enzyme   | 3162 fountain<br>3163 fox<br>3164 fragment  | 3415 hazelnut<br>3416 headband<br>3421 hedgehog  | 3632 jockstrap<br>3633 jogging<br>3634 john  |
| 2546 envoy<br>2551 enzyme<br>2552 epidemic  | 3162 fountain<br>3163 fox<br>3164 fragment<br>3165 freeway  | 3415 hazelnut<br>3416 headband<br>3421 hedgehog<br>3422 hefty  | 3632 jockstrap<br>3633 jogging<br>3634 john<br>3635 joinable   |
| 2546 envoy<br>2551 enzyme<br>2552 epidemic<br>2553 equipment  | 3162 fountain<br>3163 fox<br>3164 fragment<br>3165 freeway<br>3166 fridge   | 3415 hazelnut<br>3416 headband<br>3421 hedgehog<br>3422 hefty<br>3423 heinously  | 3632 jockstrap<br>3633 jogging<br>3634 john<br>3635 joinable<br>3636 jokingly  |
| 2546 envoy<br>2551 enzyme<br>2552 epidemic<br>2553 equipment<br>2554 erasable   | 3162 fountain<br>3163 fox<br>3164 fragment<br>3165 freeway<br>3166 fridge<br>3211 frosting  | 3415 hazelnut<br>3416 headband<br>3421 hedgehog<br>3422 hefty<br>3423 heinously<br>3424 helmet   | 3632 jockstrap<br>3633 jogging<br>3634 john<br>3635 joinable<br>3636 jokingly<br>3641 journal  |
| 2546 envoy<br>2551 enzyme<br>2552 epidemic<br>2553 equipment<br>2554 erasable<br>2555 ergonomic   | 3162 fountain<br>3163 fox<br>3164 fragment<br>3165 freeway<br>3166 fridge<br>3211 frosting<br>3212 fruit  | 3415 hazelnut<br>3416 headband<br>3421 hedgehog<br>3422 hefty<br>3423 heinously<br>3424 helmet<br>3425 hemoglobin  | 3632 jockstrap<br>3633 jogging<br>3634 john<br>3635 joinable<br>3636 jokingly<br>3641 journal<br>3642 joyial   |
| 2546 envoy<br>2551 enzyme<br>2552 epidemic<br>2553 equipment<br>2554 erasable<br>2555 ergonomic<br>2556 erratic   | 3162 fountain<br>3163 fox<br>3164 fragment<br>3165 freeway<br>3166 fridge<br>3211 frosting<br>3212 fruit<br>3213 fryingpan  | 3415 hazelnut<br>3416 headband<br>3421 hedgehog<br>3422 hefty<br>3423 heinously<br>3424 helmet<br>3425 hemoglobin<br>3426 henceforth   | 3632 jockstrap<br>3633 jogging<br>3634 john<br>3635 joinable<br>3636 jokingly<br>3641 journal<br>3642 jovial<br>3643 jovstick  |
| 2546 envoy<br>2551 enzyme<br>2552 epidemic<br>2553 equipment<br>2554 erasable<br>2555 ergonomic<br>2556 erratic<br>2561 evuntion  | 3162 fountain<br>3163 fox<br>3164 fragment<br>3165 freeway<br>3166 fridge<br>3211 frosting<br>3212 fruit<br>3213 fryingpan<br>3214 gadget   | 3415 hazelnut<br>3416 headband<br>3421 hedgehog<br>3422 hefty<br>3423 heinously<br>3424 helmet<br>3425 hemoglobin<br>3426 henceforth<br>3431 herbs   | 3632 jockstrap<br>3633 jogging<br>3634 john<br>3635 joinable<br>3636 jokingly<br>3641 journal<br>3642 jovial<br>3643 joystick<br>3644 jubilant   |
| 2546 envoy<br>2551 enzyme<br>2552 epidemic<br>2553 equipment<br>2554 erasable<br>2555 ergonomic<br>2556 erratic<br>2561 eruption<br>2562 escalator  | 3162 fountain<br>3163 fox<br>3164 fragment<br>3165 freeway<br>3166 fridge<br>3211 frosting<br>3212 fruit<br>3213 fryingpan<br>3214 gadget<br>3215 gainfully   | 3415 hazelnut<br>3416 headband<br>3421 hedgehog<br>3422 hefty<br>3423 heinously<br>3424 helmet<br>3425 hemoglobin<br>3426 henceforth<br>3431 herbs<br>3432 hesitation  | 3632 jockstrap<br>3633 jogging<br>3634 john<br>3635 joinable<br>3636 jokingly<br>3641 journal<br>3642 jovial<br>3642 jovial<br>3644 jubilant<br>3645 judiciary   |
| 2546 envoy<br>2551 enzyme<br>2552 epidemic<br>2553 equipment<br>2554 erasable<br>2555 ergonomic<br>2566 erratic<br>2561 eruption<br>2562 escalator<br>2563 eskimo   | 3162 fountain 3163 fox 3164 fragment 3165 freeway 3166 fridge 3211 frosting 3212 fruit 3213 fryingpan 3214 gadget 3215 gainfully 3216 gallstone   | 3415 hazelnut 3416 headband 3421 hedgehog 3422 hefty 3423 heinously 3424 helmet 3425 hemoglobin 3426 henceforth 3431 herbs 3432 hesitation 3433 hexagon  | 3632 jockstrap<br>3633 jogging<br>3634 john<br>3635 joinable<br>3636 jokingly<br>3641 journal<br>3642 jovial<br>3643 joystick<br>3644 jubilant<br>3645 judiciary<br>3646 judiciary   |
| 2546 envoy<br>2551 enzyme<br>2552 epidemic<br>2553 equipment<br>2554 erasable<br>2555 ergonomic<br>2566 eratic<br>2561 eruption<br>2562 escalator<br>2563 eskimo<br>2564 esophagus  | 3162 fountain 3163 fox 3164 fragment 3165 freeway 3166 fridge 3211 frosting 3212 fruit 3213 fryingpan 3214 gadget 3215 galistone 3216 gallstone 3221 gamekeeper   | 3415 hazelnut 3416 headband 3421 hedgehog 3422 hefty 3423 heinously 3424 helmet 3425 hemoglobin 3426 henceforth 3431 herbs 3432 hexagon 3434 hybran  | 3632 jockstrap<br>3633 jogging<br>3634 john<br>3635 joinable<br>3636 jokingly<br>3641 journal<br>3642 jovial<br>3643 joystick<br>3644 jubilant<br>3645 judiciary<br>3646 juggle  |
| 2546 enoy<br>2551 enoy<br>2551 enoyme<br>2552 epidemic<br>2553 equipment<br>2554 erasable<br>2555 esponomic<br>2566 eratic<br>2561 eruption<br>2562 escalator<br>2563 eskimo<br>2564 esophagus<br>2565 esponom  | 3162 fountain 3163 fox 3164 fragment 3165 freeway 3166 fridge 3211 frosting 3212 fruit 3213 fryingpan 3214 gadget 3212 gailstone 3212 gallstone 3221 gallstone 3221 ganneway  | 3415 hazelnut<br>3416 headband<br>3421 hedgehog<br>3422 hefty<br>3423 heinously<br>3424 helmet<br>3425 hemoglobin<br>3431 herbs<br>3432 hesitation<br>3436 hesitation<br>3436 hexagon<br>3434 hevalon  | 3632 jockstrap<br>3633 jogging<br>3634 john<br>3635 joinable<br>3636 jokingly<br>3641 jovrnal<br>3642 jovial<br>3643 joystick<br>3644 jubilant<br>3645 judiciary<br>3646 juggle<br>3651 juice  |
| 2546 envoy<br>2551 enzyme<br>2552 epidemic<br>2553 equipment<br>2554 erasable<br>2555 ergonomic<br>2556 eratic<br>2561 eruption<br>2562 escalator<br>2564 esophagus<br>2565 espresso<br>2566 eservey  | 3162 fountain 3163 fox 3164 fragment 3165 freeway 3166 fridge 3211 frosting 3212 fruit 3213 fryingpan 3214 gadget 3215 gainfully 3216 gallstone 3221 gamekeeper 3222 gangway  | 3415 hazelnut<br>3416 headband<br>3421 hedgehog<br>3422 heffyonsly<br>3424 helmet<br>3424 helmet<br>3426 henceforth<br>3426 henceforth<br>3431 herbs<br>3432 hesitation<br>3434 hubcap<br>3434 hubcap<br>3435 hudding  | 3632 jockstrap<br>3633 jogging<br>3634 john<br>3635 joinable<br>3636 jokingly<br>3641 journal<br>3642 jovial<br>3643 joystick<br>3644 jubilant<br>3645 judiciary<br>3646 juggle<br>3651 juice<br>3652 jujitsu  |
| 2546 enuye<br>2551 enuye<br>2552 epidemic<br>2553 equipment<br>2554 equipment<br>2555 ergonomic<br>2556 ergonomic<br>2561 eruption<br>2562 escalator<br>2563 escalator<br>2563 escalator<br>2565 espresso<br>2566 espresso<br>2566 essay  | 3162 fountain 3163 fox 3164 fragment 3165 freeway 3166 fridge 3211 frosting 3212 fruit 3213 fryingpan 3214 gadget 3215 gainfully 3216 gallstone 3221 gamekeeper 3222 gangway 3223 garlic b  | 3415 hazelnut 3416 headband 3421 hedgehog 3422 heinously 3423 heinously 3424 helmet 3425 hemoglobin 3426 hemoslobin 3426 hestatation 3433 hexitation 3433 hexitation 3433 hubcap 3435 huddling 3436 huff   | 3632 jockstrap<br>3633 jogging<br>3634 john<br>3635 joinable<br>3636 jokingly<br>3641 journal<br>3642 jovialc<br>3644 jubilant<br>3644 jubilant<br>3645 judiciary<br>3646 juggle<br>3652 jujite<br>3652 jujites  |
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| 4111 kayak   | 4324 mammal  | 4541 obliterate  | 5154 pneumonia   |
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| 4112 keepsake  | 4325 mango   | 4542 obnoxious   | 5155 podiatrist  |
| 4112 keepstike   | 4326 manmaker  | 4543 observer  | 5156 poetic  |
| 4114 kerosene  | 4221 marbles   | 4544 obtain  | 5161 pogo  |
| 4115 ketahun   | 4222 magazare  | 4545 obvious   | 5162 poison  |
| 4116 khaki   | 4222 matchetiek  | 4546 occupation  | 5162 politing  |
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| 4121 KICKSTANG   | 4554 maverick  | 4551 oceanic   | 5164 ponceman  |
| 4122 kilogram  | 4335 maximum   | 4552 octopus   | 5165 poncho  |
| 4123 kimono  | 4336 mayonnaise  | 4553 ocular  | 5166 popcorn   |
| 4124 kingdom   | 4341 moaning   | 4554 office  | 5211 porcupine   |
| 4125 kiosk   | 4342 mobilize  | 4555 oftentimes  | 5212 postcard  |
| 4126 kissing   | 4343 moccasin  | 4556 oiliness  | 5213 poultry   |
| 4131 kite  | 4344 modify  | 4561 ointment  | 5214 powerboat   |
| 4132 kleenex   | 4345 moisture  | 4562 older   | 5215 prairie   |
| 4133 knapsack  | 4346 molecule  | 4563 olympics  | 5216 pretzel   |
| 4134 kneecap   | 4351 momentum  | 4564 omissible   | 5221 princess  |
| 4135 knickers  | 4352 monastery   | 4565 omnivorous  | 5222 propeller   |
| 4136 koala   | 4353 moonshine   | 4566 oncoming  | 5223 prune   |
| 4141 krypton   | 4354 mortuary  | 4611 onion   | 5224 pry   |
| 4142 laboratory  | 4355 mosquito  | 4612 onlooker  | 5225 pseudo  |
| 4143 ladder  | 4356 motorcycle  | 4613 onstage   | 5226 psychopath  |
| 4144 lakefront   | 4361 mousetrap   | 4614 onward  | 5231 publisher   |
| 4145 lantern   | 4362 movie   | 4615 onyy  | 5232 pucker  |
| 4146 lanton  | 4363 mower   | 4616 comph   | 5233 pueblo  |
| 4151 lapropriitic  | 4264 moggaralla  | 4621 opnovely  | 5224 pullor  |
| 4151 laryingitis   | 4265 muelcinose  | 4622 opaquery  | 5234 pumpkin   |
| 4152 lasagna   | 4366 16  | 4622 opera   | 5236 pumpkin   |
| 4155 laten   | 4300 mudilow   | 4023 opium   | 5236 punchbowi   |
| 4154 laundry   | 4411 mugsnot   | 4624 opossum   | 5241 puppy   |
| 4155 lavender  | 4412 mule  | 4625 opponent  | 5242 purse   |
| 4156 laxative  | 4413 mummy   | 4626 optical   | 5243 pushup  |
| 4161 lazybones   | 4414 mundane   | 4631 opulently   | 5244 putt  |
| 4162 lecturer  | 4415 muppet  | 4632 oscillator  | 5245 puzzle  |
| 4163 leftover  | 4416 mural   | 4633 osmosis   | 5246 pyramid   |
| 4164 leggings  | 4421 mustard   | 4634 ostrich   | 5251 python  |
| 4165 leisure   | 4422 mutation  | 4635 otherwise   | 5252 quarters  |
| 4166 lemon   | 4423 myriad  | 4636 ought   | 5253 quesadilla  |
| 4211 length  | 4424 myspace   | 4641 outhouse  | 5254 quilt   |
| 4212 leopard   | 4425 myth  | 4642 ovation   | 5255 quote   |
| 4213 leprechaun  | 4426 nail  | 4643 oven  | 5256 racoon  |
| 4214 lettuce   | 4431 namesake  | 4644 owlish  | 5261 radish  |
| 4215 leukemia  | 4432 nanosecond  | 4645 oxford  | 5262 ragweed   |
| 4216 levers  | 4433 nankin  | 4646 oxidize   | 5263 railroad  |
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| 4224 licorice  | 4441 nautically  | 4654 pacemaker   | 5311 raspberry   |
| 4225 lifeboat  | 4442 navigate  | 4655 padlock   | 5312 ravishing   |
| 4226 lightbulb   | 4443 nearest   | 4656 pageant   | 5313 rearrange   |
| 4231 likewise  | 4444 nebula  | 4661 pajamas   | 5314 rebuilt   |
| 4232 lilac   | 4445 nectar  | 4662 palm  | 5315 receipt   |
| 4233 limousine   | 4446 nefarious   | 4663 pamphlet  | 5316 reentry   |
| 4234 lint  | 4451 negotiator  | 4664 pantyhose   | 5321 refinery  |
| 4235 lioness   | 4452 neither   | 4665 paprika   | 5322 register  |
| 4236 lipstick  | 4453 nemesis   | 4666 parakeet  | 5323 rehydrate   |
| 4241 liquid  | 4454 neoliberal  | 5111 passport  | 5324 reimburse   |
| 4242 listless  | 4455 nephew  | 5112 patio   | 5325 rejoicing   |
| 4243 litter  | 4456 nervously   | 5113 pauper  | 5326 rekindle  |
| 4244 liverwurst  | 4461 nest  | 5114 pavement  | 5331 relic   |
| 4245 lizard  | 4462 netting   | 5115 payphone  | 5332 remote  |
| 4246 llama   | 4463 neuron  | 5116 pebble  | 5333 renovator   |
| 4251 luau  | 4464 nevermore   | 5121 peculiarly  | 5334 reopen  |
| 4252 lubricant   | 4465 nextdoor  | 5122 pedometer   | 5335 reporter  |
| 4253 lucidity  | 4466 nicotine  | 5123 pegboard  | 5336 request   |
| 4254 ludicrous   | 4511 niece   | 5124 pelican   | 5341 rerun   |
| 4255 luggage   | 4512 nimbleness  | 5125 penguin   | 5342 reservoir   |
| 4256 lukewarm  | 4513 nintendo  | 5126 peopy   | 5343 retriever   |
| 4261 Jullaby   | 4514 nirvana   | 5131 pepperoni   | 5344 reunion   |
| 4262 lumberiack  | 4515 nuclear   | 5132 peroxide  | 5345 revolver  |
| 4263 lunchboy  | 4516 nugget  | 5133 perticide   | 5346 rewrite   |
| 4264 luridness   | 4521 nuisance  | 5134 petroleum   | 5351 rhapsody  |
|  |  | oro- perioteum   | 5252 photonic  |
|  | 4522 pullify   |  |  |
| 4265 luscious  | 4522 nullify   | 5135 pewter  | 5352 THEOTIC   |
| 4265 luscious<br>4266 luxurious  | 4522 nullify<br>4523 numbing   | 5135 pewter<br>5136 pharmacy   | 5353 rhino   |
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| 4265 luscious<br>4266 luxurious<br>4311 lyrics<br>4312 macaroni  | 4522 nullify<br>4523 numbing<br>4524 nuptials<br>4525 nursery  | 5135 pewter<br>5136 pharmacy<br>5141 pheasant<br>5142 phonebook  | 5353 rhino<br>5354 rhubarb<br>5355 rhyme   |
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## Security questions

## Shouldn't I never write my password down?

In today's world, major corporations are hacked every week, and distributed cracking networks can break complex passwords in record time. It's safest to use a strong, unique password for each account you hold, but this makes memorization impractical.

Once, people were told not to write passwords down, ever, but the consensus among security professionals has evolved. You're better at protecting this book than corporations are at securing their password databases.

## Can I just pick my own words from the list?

No. Humans are terrible at being unpredictable, and hackers are great at exploiting predictability. The primary reason that Diceware creates secure passwords is that you have no agency in the process.

## Should I leave spaces between the words?

Yes. It makes your passphrase more secure, and easier to type.

# How many words should I use in my passphrase?

The most important accounts, such as email, e-commerce and financial sites, should use at least five words.

Encrypted drives storing sensitive personal and financial documents should use seven words.

Less critical accounts, like social media, can use three words provided the passwords are unique.

# My passphrase was rejected because it is too long, or because it lacks capitalization and numbers.

You may shorten words to no less than three letters without affecting the security of your passphrase. You may also replace words with their associated 4 digit number. You may *not* choose different words.

Capitalization adds a very small amount of security; if required, pick a memorable word to capitalize.

#### What if I lose this book?

The real purpose of this book is to provide you with the tools to generate strong, memorable passwords that are unbreakable by the world's most powerful computers. It need not be the only place that you record them.

## Are password managers like 1Password safe?

Yes, as long as the master password is strong & secure. For example, if Google Chrome is configured to store your password, make sure that you have a strong Google password, and don't leave your account logged in on computers or mobile devices that are not physically secure. The same is true of Safari and iCloud, Internet Explorer and Windows Live, etc.

#### Who invented Diceware?

Diceware was invented by Arnold G. Reinhold, a computer scientist in Cambridge, MA. It was first published to Usenet's *sci.crypt.research* on August 1<sup>st</sup>, 1995. For lots more information, visit https://goo.gl/xobzeV.

This book implements a simplified version developed by the Electronic Frontier Foundation (EFF) in 2016.

## What is the danger in reusing a password?

Imagine that you used the same password for an online clothing store, and your email provider. Months later, the clothing store is hacked and your password is stolen. The hackers login to your email and find correspondence from your bank. They use the bank website to reset your online banking password, and intercept the confirmation email. Next, they use the bank website to order checks in your name, initiate transfers, etc.

This story illustrates why the security of your email ranks above others in importance: for hackers, it is the gateway to all your accounts.

# How can I find out if my password has been stolen?

Visit haveibeenpwned.com, and type in your email address. This helpful site tracks the data leaks released by hackers, and maintains a database of email addresses hacked and what kind of data was stolen.

If your email tests positive, immediately change the password for the sites listed *and* any sites that might have shared the same password.

#### What is two-factor authentication?

Two-factor authentication enhances your password by sending a code to your phone or another device, which you must supply in order to be authorized. This ensures that even if someone has your password, they also need to have your phone.

It's a good idea to set up two-factor authentication on any account linked to your bank account or credit cards.

The US Government no longer recommends SMS for two-factor authentication, due to the ease with which text messages can be intercepted. Mobile apps like Google Authenticator are more secure.

## What is phishing?

Phishing is when a hacker sends you an email message which appears to be from an organization you have a relationship with, but is actually a trap to make you give up your password.

Phishing emails typically warn you that something is wrong with your account, a delivery, or another kind of transaction, and urge you to open a document or log in via a link. They can be very realistic and insidious.

Always check the URL in any emailed links you click, and be sure that they take you to the site you expect.

## What is social engineering?

Social engineering is when a hacker contacts a company you do business with and pretends to be you. Often this means telling customer service that you have lost your password, and trying to convince the representative to change it or otherwise unlock your account.

The best protection against social engineering is to avoid easily-guessed security questions, such as your mother's maiden name. When asked for such information, generate a Diceware password instead.

## How can I stay safe online?

Above all, practice good operational security (opsec). Be suspicious and careful online.

Minimize the number of accounts you open, and always choose the best account security available. Keep track of the accounts you open, close unused accounts, and change passwords on active accounts regularly. Prefer to shop with businesses that have strong online safeguards, and take advantage of identity protection and online shopping protection services offered by reputable financial institutions.

#### What to do if I've been hacked?

The resources at crashoverridenetwork.com and at staysafeonline.org are a good starting point. They provide tools to help determine whether you have been hacked and can help you to regain control over your online accounts.

## Record of Important Things © (1)

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Diceware by Arnold G. Reinhold from: http://world.std.com/~reinhold/diceware.html

Diceware word list by Joseph Bonneau from: https://www.eff.org/deeplinks/2016/07/new-wordlists-random-passphrases https://www.eff.org/files/2016/09/08/eff\_short\_wordlist\_2\_0.txt

The IATEX source code for this book is located at: https://github.com/wadetb/dicebook