## 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

## Authentication credentials

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57. Security questions

49. Secure passphrases with Diceware

Website	
Login or Email address	
Passwords used	Date
Notes	

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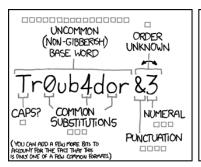
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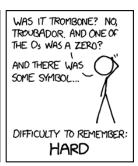
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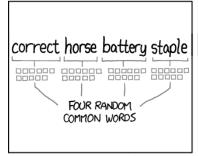
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# Secure passphrases with Diceware



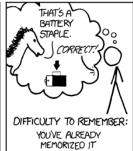








DIFFICULTY TO GUESS: HARD



THROUGH 20 YEARS OF EFFORT, WE'VE SUCCESSFULLY TRAINED EVERYONE TO USE PASSWORDS THAT ARE HARD FOR HUMANS TO REMEMBER, BUT EASY FOR COMPUTERS TO GUESS.

Comic by https://xkcd.com/@()

#### What is a Diceware passphrase?

A passphrase is a bunch of words and characters 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 fiveword 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.

#### Example

Suppose you want a five-word passphrase. You will need  $5 \times 4$  or 20 dice rolls. Let's say they come out as:

```
1 6 6 6 5 1 5 6 5 3 5 6 3 2 2 3 5 6 2 6
```

Write the results on a scrap of paper in groups of four:

You then look up each group of five rolls in the Diceware word list by finding the number in the list and writing down the word next to the number:

1666 cognitive 5156 poetic 5356 ribbon 3223 garlic 5626 smelliness

Your passphrase would then be:

cognitive poetic ribbon garlic smelliness

This 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 aquamarine	1541 buddhist	2154 cuticle
1112 abandoned	1325 arachnid	1542 buffalo	2155 cybernetic
1113 abbreviate	1326 arbitrate	1543 bullfrog	2156 cyclist
1114 abdomen	1331 ardently	1544 bunny	2161 cylinder
1115 abhorrence	1332 arena	1545 busboy	2162 cymbal
1116 abiding	1333 argument	1546 buzzard	2163 cynicism
1121 abnormal	1334 aristocrat	1551 cabin	2164 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 1131 accountant	1343 artichoke 1344 asbestos	1556 cahoots	2213 dairy 2214 dalmatian
1132 acetone	1345 ascend	1561 cajoling 1562 cakewalk	2214 damlatian 2215 dandelion
1132 acetone 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 affidavit	1363 atmosphere	1616 ceasefire	2233 decal
1151 afloat	1364 atom	1621 cedar	2234 dedicate
1152 afraid	1365 atrocious	1622 celery	2235 deepness
1153 aftershave	1366 attic	1623 cement	2236 defrost
1154 again	1411 atypical	1624 census	2241 degree
1155 agency	1412 auctioneer	1625 ceramics	2242 dehydrator
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 alarmclock	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 axially	1652 clergyman	2265 digit
1223 alkaline	1436 azalea	1653 clipboard	2266 dilated
1224 almanac	1441 babbling	1654 clock	2311 dimple
1225 alongside 1226 alphabet	1442 backpack 1443 badass	1655 clubhouse 1656 coathanger	2312 dinnerware
	1440 Dadass		
1921 already	1444 bagning		2313 dioxide
1231 already	1444 bagpipe	1661 cobweb	2314 diploma
1232 also	1445 bakery	1661 cobweb 1662 coconut	2314 diploma 2315 directory
1232 also 1233 altitude	1445 bakery 1446 balancing	1661 cobweb 1662 coconut 1663 codeword	2314 diploma 2315 directory 2316 dishcloth
1232 also 1233 altitude 1234 aluminum	1445 bakery 1446 balancing 1451 bamboo	1661 cobweb 1662 coconut 1663 codeword 1664 coexistent	2314 diploma 2315 directory 2316 dishcloth 2321 ditto
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1232 also 1233 altitude 1234 aluminum 1235 always 1236 amazingly 1241 ambulance 1242 amendment 1243 amiable 1244 ammunition 1245 amnesty 1246 amoeba 1251 amplifier 1252 amuser 1253 anagram 1254 anchor 1256 anesthesia 1261 angelfish 1262 amimal 1263 anklet 1264 anouncer 1265 anonymous 1266 answer 1311 antelope 1312 anxiety 1313 anyplace	1445 bakery 1446 balancing 1451 bamboo 1452 banana 1453 barracuda 1454 basket 1455 bathrobe 1456 bazooka 1461 blade 1462 blender 1463 blimp 1464 blouse 1465 burred 1466 boatyard 1511 bobcat 1512 body 1513 bogusness 1514 bohemian 1515 boiler 1516 bonnet 1521 boots 1522 borough 1523 bossiness 1524 bottle 1525 bouquet 1525 bouquet 1526 boxlike	1661 cobweb 1662 coconut 1663 codeword 1664 coexistent 1665 coffeecake 1666 cognitive 2111 cohabitate 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornea 2121 cosmetics 2122 cotton 2123 couch 2124 coverless 2125 coyote 2126 coziness 2131 crawfish 2132 crewmember 2133 crib 2134 croissant 2135 crumble 2136 crystal 2141 cubical 2142 cucumber 2143 cuddly	2314 diploma 2315 directory 2316 dishcloth 2321 ditto 2322 dividers 2323 dizziness 2324 doctor 2325 dodge 2326 doll 2331 dominoes 2332 donut 2333 dorstep 2334 dorsal 2335 double 2336 downstairs 2341 dozed 2342 drainpipe 2343 dresser 2344 driftwood 2345 droppings 2346 drum 2351 dryer 2352 dubiously 2353 duckling 2354 duffel 2355 dugout 2356 dumpster
1232 also 1233 altitude 1234 aluminum 1235 always 1236 amazingly 1241 ambulance 1242 amendment 1243 amiable 1244 ammunition 1245 amnesty 1246 amoeba 1251 amplifier 1252 amuser 1253 anagram 1254 anchor 1255 android 1256 anesthesia 1261 angelfish 1262 animal 1263 anklet 1264 announcer 1265 anonymous 1266 answer 1311 antelope 1312 anxiety 1313 anyplace 1314 aorta	1445 bakery 1446 balancing 1451 bamboo 1452 banana 1453 barracuda 1454 basket 1455 bathrobe 1456 bazooka 1461 blade 1462 blender 1463 blimp 1464 blouse 1465 burred 1466 boatyard 1511 bobcat 1512 body 1513 bogusness 1514 bohemian 1515 boiler 1516 bonnet 1521 boots 1522 borough 1523 bossiness 1524 bottle 1525 bouquet 1526 boxlike 1531 breath	1661 cobweb 1662 coconut 1663 codeword 1664 coexistent 1665 coffeecake 1665 coffeecake 1666 cognitive 2111 cohabitate 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornea 2121 cosmetics 2122 cotton 2123 couch 2124 coverless 2125 coyote 2126 coziness 2131 crawfish 2132 crewmember 2133 crib 2134 croissant 2135 crumble 2136 crystal 2141 cubical 2142 cucumber 2143 cuddly 2144 cufflink	2314 diploma 2315 directory 2316 dishcloth 2321 ditto 2322 dividers 2323 dizziness 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 2351 dryer 2352 dubiously 2353 duckling 2354 duffel 2355 dugout 2356 dumpster 2361 duplex
1232 also 1233 altitude 1234 aluminum 1235 always 1236 amazingly 1241 ambulance 1242 amendment 1243 amiable 1244 ammunition 1245 amnesty 1246 amoeba 1251 amplifier 1252 amuser 1253 anagram 1254 anchor 1255 android 1256 anesthesia 1261 angelfish 1262 animal 1263 anklet 1264 announcer 1265 anonymous 1266 answer 1311 antelope 1312 anxiety 1313 anyplace 1314 aorta 1315 apartment	1445 bakery 1446 balancing 1451 bamboo 1452 banana 1453 barracuda 1454 basket 1455 bathrobe 1456 bazooka 1461 blade 1462 blender 1463 blimp 1464 blouse 1465 blurred 1466 boatyard 1511 bobcat 1511 bobcat 1512 body 1513 bogusness 1514 bohemian 1515 boiler 1516 bonnet 1521 boots 1522 borough 1523 bossiness 1524 bottle 1525 bouquet 1526 boxlike 1531 breath 1532 briefcase	1661 cobweb 1662 coconut 1663 codeword 1664 coexistent 1665 coffeecake 1666 cognitive 2111 cohabitate 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornea 2121 cosmetics 2122 cotton 2123 couch 2124 coverless 2125 coyote 2126 coziness 2131 crawfish 2132 crewmember 2133 crib 2134 croissant 2135 crumble 2136 crystal 2141 cubical 2142 cucumber 2143 cuddly 2144 cufflink 2145 cuisine	2314 diploma 2315 directory 2316 dishcloth 2321 ditto 2322 dividers 2323 dizziness 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 2351 dryer 2352 dubiously 2353 duckling 2354 duffel 2355 dugout 2356 dumpster 2361 duplex 2361 durable
1232 also 1233 altitude 1234 aluminum 1235 always 1236 amazingly 1241 ambulance 1242 amendment 1243 amiable 1244 ammunition 1245 amnesty 1246 amoeba 1251 amplifier 1252 amuser 1253 anagram 1254 anchor 1255 android 1256 anesthesia 1261 angelfish 1262 amimal 1263 anklet 1264 announcer 1265 anonymous 1266 answer 1311 antelope 1312 anxiety 1313 anyplace 1314 aorta 1315 apartment 1316 apnea	1445 bakery 1446 balancing 1451 bamboo 1452 banana 1453 barracuda 1454 basket 1455 bathrobe 1456 bazooka 1461 blade 1462 blender 1463 blimp 1464 blouse 1465 blurred 1466 boatyard 1511 bobcat 1512 body 1513 bogusness 1514 bohemian 1515 boiler 1516 bonnet 1521 boots 1522 borough 1523 bossiness 1524 bottle 1525 bouquet 1526 boxlike 1531 breath 1532 briefcase 1533 broom	1661 cobweb 1662 coconut 1663 codeword 1664 coexistent 1665 coffeecake 1666 cognitive 2111 cohabitate 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornea 2121 cosmetics 2122 cotton 2123 couch 2124 coverless 2125 coyote 2126 coziness 2131 crawfish 2132 crewmember 2133 crib 2134 croissant 2135 crumble 2136 crystal 2141 cubical 2142 cucumber 2143 cuddly 2144 cufflink 2145 cuisine 2146 colprit	2314 diploma 2315 directory 2316 dishcloth 2321 ditto 2322 dividers 2323 dizziness 2324 doctor 2325 dodge 2326 doll 2331 dominoes 2332 donut 2333 dorstep 2334 dorsal 2335 double 2336 downstairs 2341 dozed 2342 drainpipe 2343 dresser 2344 driftwood 2345 droppings 2346 drum 2351 dryer 2352 dubiously 2353 duckling 2354 duffel 2355 dugout 2356 dumpster 2361 duplex 2361 duplex 2362 durable 2363 dustpan
1232 also 1233 altitude 1234 aluminum 1235 always 1236 amazingly 1241 ambulance 1242 amendment 1243 amiable 1244 ammunition 1245 amnesty 1246 amoeba 1251 amplifier 1252 amuser 1253 anagram 1254 anchor 1255 android 1256 anesthesia 1261 angelfish 1262 animal 1263 anklet 1264 announcer 1265 anonymous 1266 answer 1311 antelope 1312 anxiety 1313 anyplace 1314 aorta 1315 apartment 1316 apnea 1321 apostrophe	1445 bakery 1446 balancing 1451 bamboo 1452 banana 1453 barracuda 1454 basket 1455 bathrobe 1456 bazooka 1461 blade 1462 blender 1463 blimp 1464 blouse 1465 blurred 1466 boatyard 1511 bobcat 1512 body 1513 bogusness 1514 bohemian 1515 boiler 1516 bonnet 1521 boots 1522 borough 1523 bossiness 1524 bottle 1525 bouquet 1526 boxlike 1531 breath 1532 briefcase 1533 broom 1534 brushes	1661 cobweb 1662 coconut 1663 codeword 1664 coexistent 1665 coffeecake 1665 coffeecake 1666 cognitive 2111 cohabitate 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornea 2121 cosmetics 2122 cotton 2123 couch 2124 coverless 2125 coyote 2126 coziness 2131 crawfish 2132 crewmember 2133 crib 2134 croissant 2135 crumble 2136 crystal 2141 cubical 2142 cucumber 2143 cuddly 2144 cufflink 2145 cuisine 2146 culprit 2151 cup	2314 diploma 2315 directory 2316 dishcloth 2321 ditto 2322 dividers 2323 dizziness 2324 doctor 2325 dodge 2326 doll 2331 dominoes 2332 doorstep 2334 dorsal 2335 double 2336 downstairs 2341 dozed 2342 drainpipe 2343 dresser 2344 driftwood 2345 droppings 2346 drum 2351 dryer 2352 dubiously 2353 duckling 2354 duffel 2355 dugout 2356 dumpster 2361 duplex 2362 durable 2363 dustpan 2364 dutiful
1232 also 1233 altitude 1234 aluminum 1235 always 1236 amazingly 1241 ambulance 1242 amendment 1243 amiable 1244 ammunition 1245 amnesty 1246 amoeba 1251 amplifier 1252 amuser 1253 anagram 1254 anchor 1255 android 1256 anesthesia 1261 angelfish 1262 amimal 1263 anklet 1264 announcer 1265 anonymous 1266 answer 1311 antelope 1312 anxiety 1313 anyplace 1314 aorta 1315 apartment 1316 apnea	1445 bakery 1446 balancing 1451 bamboo 1452 banana 1453 barracuda 1454 basket 1455 bathrobe 1456 bazooka 1461 blade 1462 blender 1463 blimp 1464 blouse 1465 blurred 1466 boatyard 1511 bobcat 1512 body 1513 bogusness 1514 bohemian 1515 boiler 1516 bonnet 1521 boots 1522 borough 1523 bossiness 1524 bottle 1525 bouquet 1526 boxlike 1531 breath 1532 briefcase 1533 broom	1661 cobweb 1662 coconut 1663 codeword 1664 coexistent 1665 coffeecake 1666 cognitive 2111 cohabitate 2112 collarbone 2113 computer 2114 confetti 2115 copier 2116 cornea 2121 cosmetics 2122 cotton 2123 couch 2124 coverless 2125 coyote 2126 coziness 2131 crawfish 2132 crewmember 2133 crib 2134 croissant 2135 crumble 2136 crystal 2141 cubical 2142 cucumber 2143 cuddly 2144 cufflink 2145 cuisine 2146 colprit	2314 diploma 2315 directory 2316 dishcloth 2321 ditto 2322 dividers 2323 dizziness 2324 doctor 2325 dodge 2326 doll 2331 dominoes 2332 donut 2333 dorstep 2334 dorsal 2335 double 2336 downstairs 2341 dozed 2342 drainpipe 2343 dresser 2344 driftwood 2345 droppings 2346 drum 2351 dryer 2352 dubiously 2353 duckling 2354 duffel 2355 dugout 2356 dumpster 2361 duplex 2361 duplex 2362 durable 2363 dustpan

2411	dwelling	2624 evacuation	3241 gesture	3454	hygienist
	dwindling	2625 evergreen	3242 getaway		hypnotist
	dynamite	2626 evidence	3243 geyser		ibuprofen
	dyslexia	2631 evolution	3244 ghoulishly		icepack
	eagerness	2632 exam	3245 gibberish		icing
	earlobe	2633 excerpt	3246 giddiness		iconic
	easel	2634 exerciser	3251 giftshop		identical
	eavesdrop	2635 exfoliate	3252 gigabyte		idiocy
	ebook	2636 exhale	3253 gimmick	3466	
	eccentric	2641 exist	3254 giraffe		igloo
	echoless	2642 exorcist	3255 giveaway		ignition
	eclipse	2643 explode	3256 gizmo		iguana
	ecosystem	2644 exquisite	3261 glasses		illuminate
	ecstasy	2645 exterior	3262 gleeful		imaging imbecile
	edged	2646 exuberant	3263 glisten		
	editor	2651 fabric	3264 glove		imitator
	educator	2652 factory	3265 glucose		immigrant
	eelworm	2653 faded	3266 glycerin		imprint
	eerie	2654 failsafe	3311 gnarly		iodine
	effects	2655 falcon	3312 gnomish		ionospher
2443	eggnog	2656 family	3313 goatskin	3526	ipad
2444	egomaniac	2661 fanfare	3314 goggles		iphone
2445	ejection	2662 fasten	3315 goldfish		iridescent
2446	elastic	2663 faucet	3316 gong	3533	irksome
2451	elbow	2664 favorite	3321 gooey	3534	iron
2452	elderly	2665 feasibly	3322 gorgeous	3535	irrigation
2453	elephant	2666 february	3323 gosling	3536	island
2454	elfishly	3111 federal	3324 gothic	3541	isotope
2455	eliminator	3112 feedback	3325 gourmet	3542	issueless
2456		3113 feigned	3326 governor		italicize
2461	elliptical	3114 feline	3331 grape	3544	itemizer
	elongated	3115 femur	3332 greyhound		itinerary
	elsewhere	3116 fence	3333 grill		itunes
	elusive	3121 ferret	3334 groundhog		ivory
	elves	3122 festival	3335 grumbling		jabbering
	emancipate	3123 fettuccine	3336 guacamole		jackrabbit
	embroidery	3124 feudalist	3341 guerrilla		jaguar
	emcee	3125 feverish	3342 guitar		jailhouse
	emerald	3126 fiberglass	3343 gullible		jalapeno
	emission	3131 fictitious	3344 gumdrop		jamboree
	emoticon	3132 fiddle	3345 gurgling		janitor
	emperor	3133 figurine	3346 gusto		jarring
	emulate	3134 fillet	3351 gutless		jasmine
	enactment	3135 finalist	3352 gymnast		jaundice
	enchilada	3136 fiscally	3353 gynecology		jawbreake
	endorphin	3141 fixture	3354 gyration		jaywalker
			3355 habitat		
	energy enforcer	3142 flashlight		3612	
		3143 fleshiness	3356 hacking		jealous
	engine	3144 flight	3361 haggard	3614	
	enhance	3145 florist	3362 haiku		jelly
	enigmatic	3146 flypaper	3363 halogen		jeopardize
	enjoyably	3151 foamless	3364 hamburger		jersey
	enlarged	3152 focus	3365 handgun		jetski
	enormous	3153 foggy	3366 happiness		jezebel
	enquirer	3154 folksong	3411 hardhat	3624	
	enrollment	3155 fondue	3412 hastily		jigsaw
	ensemble	3156 footpath	3413 hatchling		jingling
	entryway	3161 fossil	3414 haughty		jobholder
2545	enunciate	3162 fountain	3415 hazelnut		jockstrap
2546	envoy	3163 fox	3416 headband	3633	jogging
2551	enzyme	3164 fragment	3421 hedgehog	3634	john
2552	epidemic	3165 freeway	3422 hefty	3635	joinable
2553	equipment	3166 fridge	3423 heinously	3636	jokingly
2554	erasable	3211 frosting	3424 helmet	3641	journal
2555	ergonomic	3212 fruit	3425 hemoglobin	3642	jovial
2556	erratic	3213 fryingpan	3426 henceforth	3643	joystick
2561	eruption	3214 gadget	3431 herbs	3644	jubilant
2562	escalator	3215 gainfully	3432 hesitation		judiciary
	eskimo	3216 gallstone	3433 hexagon		juggle
	esophagus	3221 gamekeeper	3434 hubcap		juice
	espresso	3222 gangway	3435 huddling		jujitsu
	essay	3223 garlic	3436 huff		jukebox
	estrogen	3224 gaslight	3441 hugeness		jumpiness
	etching	3225 gathering	3442 hullabaloo		junkyard
	eternal	3226 gauntlet	3443 human		juror
	ethics	3231 gearbox	3444 hunter		justifying
	etiquette	3232 gecko	3445 hurricane		juvenile
	eucalyptus	3232 gecko 3233 gem	3446 hushing		kabob
	eulogy	3234 generator	3451 hyacinth		kamikaze
	eulogy euphemism	3235 geographer	3452 hybrid		kangaroo
	euthanize	3236 gerbil	3453 hydrant		karate
2023	cumanize	5250 gerbii	5455 Hydrant	3000	rarate

4111 kayak	4324 mammal	4541 obliterate	5154 pneumonia
4112 keepsake	4325 mango	4542 obnoxious	5155 podiatrist
4113 kennel	4326 mapmaker	4543 observer	5156 poetic
4114 kerosene	4331 marbles	4544 obtain	5161 pogo
4115 ketchup	4332 massager	4545 obvious	5162 poison
4116 khaki	4333 matchstick	4546 occupation	5163 poking
4121 kickstand 4122 kilogram	4334 maverick 4335 maximum	4551 oceanic 4552 octopus	5164 policeman
4123 kimono	4336 mayonnaise	4553 ocular	5165 poncho 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 4363 mower	4615 onyx	5232 pucker
4146 laptop 4151 laryngitis	4364 mozzarella	4616 oomph 4621 opaquely	5233 pueblo 5234 pulley
4152 lasagna	4365 muckiness	4622 opera	5234 pumpkin
4153 latch	4366 mudflow	4623 opium	5236 punchbowl
4154 laundry	4411 mugshot	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 4214 lettuce	4426 nail	4643 oven	5256 racoon
	4431 namesake	4644 owlish	5261 radish
4215 leukemia 4216 levers	4432 nanosecond	4645 oxford 4646 oxidize	5262 ragweed
4210 levers 4221 lewdness	4433 napkin 4434 narrator	4651 oxygen	5263 railroad 5264 rampantly
4222 liability	4435 nastiness	4652 oyster	5265 rancidity
4223 library	4436 natives	4653 ozone	5266 rarity
4224 licorice	4441 nautically	4654 pacemaker	5311 raspberry
4225 lifeboat		4655 padlock	
	4442 navigate		5312 ravishing
	4442 navigate 4443 nearest		5312 ravishing 5313 rearrange
4226 lightbulb 4231 likewise	4442 navigate 4443 nearest 4444 nebula	4656 pageant	5312 ravishing 5313 rearrange 5314 rebuilt
4226 lightbulb	4443 nearest		5313 rearrange
4226 lightbulb 4231 likewise	4443 nearest 4444 nebula	4656 pageant 4661 pajamas	5313 rearrange 5314 rebuilt
4226 lightbulb 4231 likewise 4232 lilac	4443 nearest 4444 nebula 4445 nectar	4656 pageant 4661 pajamas 4662 palm	5313 rearrange 5314 rebuilt 5315 receipt
4226 lightbulb 4231 likewise 4232 lilac 4233 limousine	4443 nearest 4444 nebula 4445 nectar 4446 nefarious 4451 negotiator 4452 neither	4656 pageant 4661 pajamas 4662 palm 4663 pamphlet	5313 rearrange 5314 rebuilt 5315 receipt 5316 reentry
4226 lightbulb 4231 likewise 4232 lilac 4233 limousine 4234 lint 4235 lioness 4236 lipstick	4443 nearest 4444 nebula 4445 nectar 4446 nefarious 4451 negotiator 4452 neither 4453 nemesis	4656 pageant 4661 pajamas 4662 palm 4663 pamphlet 4664 pantyhose 4665 paprika 4666 parakeet	5313 rearrange 5314 rebuilt 5315 receipt 5316 reentry 5321 refinery 5322 register 5323 rehydrate
4226 lightbulb 4231 likewise 4232 lilac 4233 limousine 4234 lint 4235 lioness 4236 lipstick 4241 liquid	4443 nearest 4444 nebula 4445 nectar 4446 nefarious 4451 negotiator 4452 neither 4453 nemesis 4454 neoliberal	4656 pageant 4661 pajamas 4662 palm 4663 pamphlet 4664 pantyhose 4665 paprika 4666 parakeet 5111 passport	5313 rearrange 5314 rebuilt 5315 receipt 5316 reentry 5321 refinery 5322 register 5323 rehydrate 5324 reimburse
4226 lightbulb 4231 likewise 4232 lilac 4233 limousine 4234 lint 4235 lioness 4236 lipstick 4241 liquid 4242 listless	4443 nearest 4444 nebula 4445 nectar 4446 nefarious 4451 negotiator 4452 neither 4453 nemesis 4454 neoliberal 4455 nephew	4656 pageant 4661 pajamas 4662 palm 4663 pamphlet 4664 pantyhose 4665 paprika 4666 parakeet 5111 passport 5112 patio	5313 rearrange 5314 rebuilt 5315 receipt 5316 reentry 5321 refinery 5322 register 5323 rehydrate 5324 reimburse 5325 rejoicing
4226 lightbulb 4231 likewise 4232 lilac 4233 limousine 4234 lint 4235 lioness 4236 lipstick 4241 liquid 4242 listless 4243 litter	4443 nearest 4444 nebula 4445 nectar 4446 nefarious 4451 negotiator 4452 neither 4453 nemesis 4454 neoliberal 4455 nephew 4456 nervously	4656 pageant 4661 pajamas 4662 palm 4663 pamphlet 4664 pantyhose 4665 paprika 4666 parakeet 5111 passport 5112 patio 5113 pauper	5313 rearrange 5314 rebuilt 5315 receipt 5316 reentry 5321 refinery 5322 register 5323 rehydrate 5324 reimburse 5325 rejoicing 5326 rekindle
4226 lightbulb 4231 likewise 4232 lilac 4233 limousine 4234 lint 4235 lioness 4236 lipstick 4241 liquid 4242 listless 4243 litter 4244 liverwurst	4443 nearest 4444 nebula 4445 nectar 4446 nefarious 4451 negotiator 4452 neither 4453 nemesis 4454 neoliberal 4455 nephew 4456 nervously 4461 nest	4656 pageant 4661 pajamas 4662 palm 4663 pamphlet 4664 pantyhose 4665 paprika 4666 parakeet 5111 passport 5112 patio 5113 pauper 5114 pavement	5313 rearrange 5314 rebuilt 5315 receipt 5316 reentry 5321 refinery 5322 register 5323 rehydrate 5324 reimburse 5325 rejoicing 5326 rekindle 5331 relic
4226 lightbulb 4231 likewise 4232 lilac 4233 limousine 4234 lint 4235 lioness 4236 lipstick 4241 liquid 4242 listless 4243 litter 4244 liverwurst 4245 lizard	4443 nearest 4444 nebula 4445 nectar 4446 nefarious 4451 negotiator 4452 neither 4453 nemesis 4454 neoliberal 4455 nephew 4456 nervously 4461 nest 4462 netting	4656 pageant 4661 pajamas 4662 palm 4663 pamphlet 4664 pantyhose 4665 paprika 4666 parakeet 5111 passport 5112 patio 5113 pauper 5114 pavement 5115 payphone	5313 rearrange 5314 rebuilt 5315 receipt 5316 reentry 5321 refinery 5322 register 5323 rehydrate 5324 reimburse 5325 rejoicing 5326 rekindle 5331 relic 5332 remote
4226 lightbulb 4231 likewise 4232 lilac 4233 limousine 4234 lint 4235 lioness 4236 lipstick 4241 liquid 4242 listless 4243 litter 4244 liverwurst 4245 lizard 4246 llama	4443 nearest 4444 nebula 4445 nectar 4446 nefarious 4451 negotiator 4452 neither 4453 nemesis 4454 neoliberal 4455 nephew 4456 nervously 4461 nest 4462 netting 4463 neuron	4656 pageant 4661 pajamas 4662 palm 4663 pamphlet 4664 pantyhose 4665 paprika 4666 parakeet 5111 passport 5112 patio 5113 pauper 5114 pavement 5115 payphone 5116 pebble	5313 rearrange 5314 rebuilt 5315 receipt 5316 reentry 5321 refinery 5322 register 5323 rehydrate 5324 reimburse 5325 rejoicing 5326 rekindle 5331 relic 5332 remote 5333 removator
4226 lightbulb 4231 likewise 4232 lilac 4233 limousine 4234 lint 4235 lioness 4236 lipstick 4241 liquid 4242 listless 4243 litter 4244 liverwurst 4245 lizard 4246 llama 4251 luau	4443 nearest 4444 nebula 4445 nectar 4446 nefarious 4451 negotiator 4452 neither 4453 nemesis 4454 neoliberal 4455 nephew 4456 nervously 4461 nest 4462 netting 4463 neuron 4464 nevermore	4656 pageant 4661 pajamas 4662 palm 4663 pamphlet 4664 pantyhose 4665 paprika 4666 parakeet 5111 passport 5112 patio 5113 pauper 5114 pavement 5115 payphone 5116 pebble 5121 peculiarly	5313 rearrange 5314 rebuilt 5315 receipt 5316 reentry 5321 refinery 5322 register 5323 rehydrate 5324 reimburse 5325 rejoicing 5326 rekindle 5331 relic 5332 remote 5333 renovator 5334 reopen
4226 lightbulb 4231 likewise 4232 lilac 4233 limousine 4234 lint 4235 lioness 4236 lipstick 4241 liquid 4242 listless 4243 litter 4244 liverwurst 4245 lizard 4246 llama 4251 luau 4252 lubricant	4443 nearest 4444 nebula 4445 nectar 4446 nefarious 4451 negotiator 4452 neither 4453 nemesis 4454 neoliberal 4455 nephew 4456 nervously 4461 nest 4462 netting 4463 neuron 4464 nevermore 4465 nextdoor	4656 pageant 4661 pajamas 4662 palm 4663 pamphlet 4664 pantyhose 4665 paprika 4666 parakeet 5111 passport 5112 patio 5113 pauper 5114 pavement 5115 payphone 5116 pebble 5121 peculiarly 5122 pedometer	5313 rearrange 5314 rebuilt 5315 receipt 5316 reentry 5321 refinery 5322 register 5323 rehydrate 5324 reimburse 5325 rejoicing 5326 rekindle 5331 relic 5332 remote 5333 renovator 5334 reopen 5335 reporter
4226 lightbulb 4231 likewise 4232 lilac 4233 limousine 4234 lint 4235 lioness 4236 lipstick 4241 liquid 4242 listless 4243 litter 4244 liverwurst 4245 lizard 4246 llama 4251 luau 4252 lubricant 4253 lucidity	4443 nearest 4444 nebula 4445 nectar 4446 nefarious 4451 negotiator 4452 neither 4453 nemesis 4454 neoliberal 4455 nephew 4456 nervously 4461 nest 4462 netting 4463 neuron 4464 nevermore 4465 nextdoor 4466 nicotine	4656 pageant 4661 pajamas 4662 palm 4663 pamphlet 4664 pantyhose 4665 paprika 4666 parakeet 5111 passport 5112 patio 5113 pauper 5114 pavement 5115 payphone 5116 pebble 5121 peculiarly 5122 pedometer 5123 pegboard	5313 rearrange 5314 rebuilt 5315 receipt 5316 receipt 5316 reentry 5321 refinery 5322 register 5323 rehydrate 5325 rejoicing 5326 rekindle 5331 relic 5332 remote 5333 renovator 5334 reopen 5335 reporter 5336 request
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	5625 smartphone	6242 trucks	6455 vestibule
5413 roamer	5626 smelliness		
		6243 tryout	6456 veteran
5414 robe	5631 smitten	6244 tubeless	6461 vexingly
5415 rocket	5632 smokestack	6245 tuesday	6462 vicinity
5416 romancer	5633 smudge	6246 tugboat	6463 videogame
5421 ropelike	5634 snapshot	6251 tulip	6464 viewfinder
5422 rotisserie	5635 sneezing	6252 tumbleweed	6465 vigilante
5423 roundtable	5636 sniff	6253 tupperware	6466 village
5424 royal	5641 snowsuit	6254 turtle	6511 vinegar
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5425 rubber	5642 snugness	6255 tusk	6512 violin
5426 rudderless	5643 speakers	6256 tutorial	6513 viperfish
5431 rugby	5644 sphinx	6261 tuxedo	6514 virus
5432 ruined	5645 spider	6262 tweezers	6515 visor
5433 rulebook	5646 splashing	6263 twins	6516 vitamins
5434 rummage	5651 sponge	6264 tyrannical	6521 vivacious
5435 running	5652 sprout	6265 ultrasound	6522 vixen
5436 rupture	5653 spur	6266 umbrella	6523 vocalist
5441 rustproof	5654 spyglass	6311 umpire	6524 vogue
5442 sabotage	5655 squirrel	6312 unarmored	6525 voicemail
5443 sacrifice	5656 statue	6313 unbuttoned	6526 volleyball
5444 saddlebag	5661 steamboat	6314 uncle	6531 voucher
5445 saffron	5662 stingray	6315 underwear	6532 voyage
5446 sainthood	5663 stopwatch	6316 unevenness	6533 vulnerable
5451 saltshaker	5664 strawberry	6321 unflavored	6534 waffle
5452 samurai	5665 student	6322 ungloved	6535 wagon
5453 sandworm	5666 stylus	6323 unhinge	6536 wakeup
5454 sapphire	6111 suave	6324 unicycle	6541 walrus
• •		6325 unjustly	6542 wanderer
5455 sardine	6112 subway		
5456 sassy	6113 suction	6326 unknown	6543 wasp
5461 satchel	6114 suds	6331 unlocking	6544 water
5462 sauna	6115 suffocate	6332 unmarked	6545 waving
5463 savage	6116 sugar	6333 unnoticed	6546 wheat
5464 saxophone	6121 suitcase	6334 unopened	6551 whisper
5465 scarf	6122 sulphur	6335 unpaved	6552 wholesaler
5466 scenario	6123 superstore	6336 unquenched	6553 wick
5511 schoolbook	6124 surfer	6341 unroll	6554 widow
5512 scientist	6125 sushi	6342 unscrewing	6555 wielder
5513 scooter	6126 swan	6343 untied	6556 wifeless
5514 scrapbook	6131 sweatshirt	6344 unusual	6561 wikipedia
5515 sculpture	6132 swimwear	6345 unveiled	6562 wildcat
5516 scythe	6133 sword	6346 unwrinkled	6563 windmill
5521 secretary	6134 sycamore	6351 unyielding	6564 wipeout
5522 sedative	6135 syllable	6352 unzip	6565 wired
5523 segregator	6136 symphony	6353 upbeat	6566 wishbone
5524 seismology	6141 synagogue	6354 upcountry	6611 wizardry
5525 selected	6142 syringes	6355 update	6612 wobbliness
	6143 systemize	6356 unfront	
5526 semicolon	6143 systemize	6356 upfront	6613 wolverine
	6143 systemize 6144 tablespoon	6356 upfront 6361 upgrade	
5526 semicolon 5531 senator	6144 tablespoon	6361 upgrade	6613 wolverine 6614 womb
5526 semicolon 5531 senator 5532 septum	6144 tablespoon 6145 taco	6361 upgrade 6362 upholstery	6613 wolverine 6614 womb 6615 woolworker
5526 semicolon 5531 senator	6144 tablespoon	6361 upgrade 6362 upholstery 6363 upkeep	6613 wolverine 6614 womb
5526 semicolon 5531 senator 5532 septum 5533 sequence	6144 tablespoon 6145 taco 6146 tadpole	6361 upgrade 6362 upholstery 6363 upkeep	6613 wolverine 6614 womb 6615 woolworker 6616 workbasket
5526 semicolon 5531 senator 5532 septum 5533 sequence 5534 serpent	6144 tablespoon 6145 taco 6146 tadpole 6151 taekwondo	6361 upgrade 6362 upholstery 6363 upkeep 6364 upload	6613 wolverine 6614 womb 6615 woolworker 6616 workbasket 6621 wound
5526 semicolon 5531 senator 5532 septum 5533 sequence 5534 serpent 5535 sesame	6144 tablespoon 6145 taco 6146 tadpole 6151 taekwondo 6152 tagalong	6361 upgrade 6362 upholstery 6363 upkeep 6364 upload 6365 uppercut	6613 wolverine 6614 womb 6615 woolworker 6616 workbasket 6621 wound 6622 wrangle
5526 semicolon 5531 senator 5532 septum 5533 sequence 5534 serpent	6144 tablespoon 6145 taco 6146 tadpole 6151 taekwondo	6361 upgrade 6362 upholstery 6363 upkeep 6364 upload	6613 wolverine 6614 womb 6615 woolworker 6616 workbasket 6621 wound
5526 semicolon 5531 senator 5532 septum 5533 sequence 5534 serpent 5535 sesame 5536 settler	6144 tablespoon 6145 taco 6146 tadpole 6151 taekwondo 6152 tagalong 6153 takeout	6361 upgrade 6362 upholstery 6363 upkeep 6364 upload 6365 uppercut 6366 upright	6613 wolverine 6614 womb 6615 woolworker 6616 workbasket 6621 wound 6622 wrangle 6623 wreckage
5526 semicolon 5531 senator 5532 septum 5533 sequence 5534 serpent 5536 sextler 5536 settler 5541 severely	6144 tablespoon 6145 taco 6146 tadpole 6151 taekwondo 6152 tagalong 6153 takeout 6154 tallness	6361 upgrade 6362 upholstery 6363 upkeep 6364 upload 6365 uppercut 6366 upright 6411 upstairs	6613 wolverine 6614 womb 6615 woolworker 6616 workbasket 6621 wound 6622 wrangle 6623 wreckage 6624 wristwatch
5526 semicolon 5531 senator 5532 septum 5533 sequence 5534 serpent 5535 sesame 5536 settler 5541 severely 5542 shack	6144 tablespoon 6145 taco 6146 tadpole 6151 taekwondo 6152 tagalong 6153 takeout 6154 tallness 6155 tamale	6361 upgrade 6362 upholstery 6363 upkeep 6364 upload 6365 uppercut 6366 upright 6411 upstairs 6412 uptown	6613 wolverine 6614 womb 6615 woolworker 6616 workbasket 6621 wound 6622 wrangle 6623 wreckage 6624 wristwatch 6625 wrongdoing
5526 semicolon 5531 senator 5532 septum 5533 sequence 5534 serpent 5535 sesame 5536 settler 5541 severely 5542 shack 5543 shelf	6144 tablespoon 6145 taco 6146 tadpole 6151 taekwondo 6152 tagalong 6153 takeout 6154 tallness	6361 upgrade 6362 upholstery 6363 upkeep 6364 upload 6365 uppercut 6366 upright 6411 upstairs	6613 wolverine 6614 womb 6615 woolworker 6616 workbasket 6621 wound 6622 wrangle 6623 wreckage 6624 wristwatch
5526 semicolon 5531 senator 5532 septum 5533 sequence 5534 serpent 5535 sesame 5536 settler 5541 severely 5542 shack 5543 shelf	6144 tablespoon 6145 taco 6146 tadpole 6151 taekwondo 6152 tagalong 6153 takeout 6154 tallness 6155 tamale 6156 tanned	6361 upgrade 6362 upholstery 6363 upkeep 6364 upload 6365 uppercut 6366 upright 6411 upstairs 6412 uptown 6413 upwind	6613 wolverine 6614 womb 6615 woolworker 6616 workbasket 6621 wound 6622 wrangle 6623 wreckage 6624 wristwatch 6625 wrongdoing 6626 xerox
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5526 semicolon 5531 senator 5532 septum 5533 sequence 5534 serpent 5536 settler 5541 severely 5542 shack 5543 shelf 5544 shirt 5545 shovel	6144 tablespoon 6145 taco 6146 tadpole 6151 taekwondo 6152 tagalong 6153 takeout 6154 tallness 6155 tamale 6156 tanned 6161 tapestry 6162 tarantula	6361 upgrade 6362 upholstery 6363 upkeep 6364 upload 6365 uppercut 6366 upright 6411 upstairs 6412 uptown 6413 upwind 6414 uranium 6415 urban	6613 wolverine 6614 womb 6615 woolworker 6616 workbasket 6621 wound 6622 wrangle 6623 wreckage 6624 wristwatch 6625 wrongdoing 6626 xerox 6631 xylophone 6632 yacht
5526 semicolon 5531 senator 5532 septum 5533 sequence 5534 serpent 5535 sesame 5536 settler 5541 severely 5542 shack 5543 shelf 5544 shirt	6144 tablespoon 6145 taco 6146 tadpole 6151 taekwondo 6152 tagalong 6153 takeout 6154 tallness 6155 tamale 6156 tanned 6161 tapestry	6361 upgrade 6362 upholstery 6363 upkeep 6364 upload 6365 uppercut 6366 upright 6411 upstairs 6412 uptown 6413 upwind 6414 uranium	6613 wolverine 6614 womb 6615 woolworker 6616 workbasket 6621 wound 6622 wrangle 6623 wreckage 6624 wristwatch 6625 wrongdoing 6626 xerox 6631 xylophone
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5526 semicolon 5531 senator 5532 septum 5533 sequence 5534 serpent 5535 sesame 5536 settler 5541 severely 5542 shack 5543 shelf 5544 shirt 5545 shovel 5546 shrimp 5551 shuttle	6144 tablespoon 6145 taco 6146 tadpole 6151 taekwondo 6152 tagalong 6153 takeout 6154 tallness 6155 tamale 6166 tanned 6161 tapestry 6162 tarantula 6163 tastebud 6164 tattoo	6361 upgrade 6362 upholstery 6363 upkeep 6364 upload 6365 uppercut 6366 upright 6411 upstairs 6412 uptown 6413 upwind 6414 uranium 6415 urban 6416 urchin 6421 urethane	6613 wolverine 6614 womb 6615 woolworker 6616 workbasket 6621 wound 6622 wrangle 6623 wreckage 6624 wristwatch 6625 wrongdoing 6626 xerox 6631 xylophone 6632 yacht 6633 yahoo 6634 yard
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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 such as 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 © (\*)

Compiled & edited by Wade Brainerd

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XKCD comic from:

https://xkcd.com/936/

Diceware by Arnold G. Reinhold from:

http://world.std.com/~reinhold/diceware.html

Diceware word list 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 LATEX source code for this book is located at:

https://github.com/wadetb/dicebook