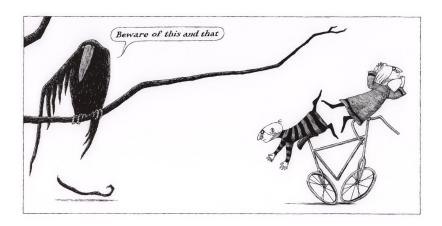


## Record of Important Things



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 CTO, Resilient

## Index

1	Record of authentication	crede	ntials and other notes
1		13	
2		14	
3		15	
4		16	
5		17	
6		18	
7		19	
8		20	
9		21	
10		22	
11		23	
12		24	

25	 37	
26	 38	
27	 39	
28	 40	
29	 41	
30	 42	
31	 43	
32	 44	
33	 45	
34	 46	
35	 47	
36	 48	

Cryptographically-secure passphrases with Diceware

Questions & answers regarding online security

49

57

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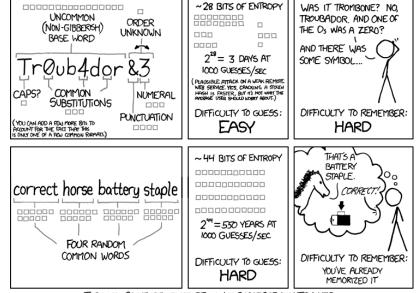
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# Cryptographicallysecure passphrases with Diceware



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.

# What is a Diceware passphrase?

A passphrase is a bunch of words and characters that you type in to 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 that 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 four-word passphrase provides a level of security *much* higher than the passwords most people use. For NSA-proof security, use seven.
- 2 Roll all four dice at once and write the results down, reading from left to right, on a scrap 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 that you have found are your new passphrase! If required, capitalize a memorable word, and replace the last word with its four digit number.
- 5 Come up with a way to remember your phrase. It might be a story, scenario, or sentence that that can remind you of the particular words you chose, in order.

## 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, and 6.

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

- 1666
- 5 1 5 6
- 5 3 5 6
- 3 2 2 3
- 5626

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 (about  $2^{51}$ ) alternatives that could have been chosen by this method.

1111 aardvark	1262 animal	1453 barracuda	1644 circle
1112 abandoned	1263 anklet	1454 basket	1645 cityscape
1113 abbreviate	1264 announcer	1455 bathrobe	1646 civilian
1114 abdomen	1265 anonymous	1456 bazooka	1651 clay
1115 abhorrence	1266 answer	1461 blade	1652 clergyman
1116 abiding	1311 antelope	1462 blender	1653 clipboard
1121 abnormal	1312 anxiety	1463 blimp	1654 clock
1122 abrasion	1313 anyplace	1464 blouse	1655 clubhouse
1123 absorbing	1314 aorta	1465 blurred	1656 coathanger
1124 abundant	1315 apartment	1466 boatyard	1661 cobweb
1125 abyss	1316 apnea	1511 bobcat	1662 coconut
1126 academy	1321 apostrophe	1512 body	1663 codeword
1131 accountant	1322 apple	1513 bogusness	1664 coexistent
1132 acetone	1323 apricot	1514 bohemian	
	*	1514 boiler	1665 coffeecake
1133 achiness	1324 aquamarine		1666 cognitive
1134 acid	1325 arachnid	1516 bonnet	2111 cohabitate
1135 acoustics	1326 arbitrate	1521 boots	2112 collarbone
1136 acquire	1331 ardently	1522 borough	2113 computer
1141 acrobat	1332 arena	1523 bossiness	2114 confetti
1142 actress	1333 argument	1524 bottle	2115 copier
1143 acuteness	1334 aristocrat	1525 bouquet	2116 cornea
1144 aerosol	1335 armchair	1526 boxlike	2121 cosmetics
1145 aesthetic	1336 aromatic	1531 breath	2122 cotton
1146 affidavit	1341 arrowhead	1532 briefcase	2123 couch
1151 afloat	1342 arsonist	1533 broom	2124 coverless
1152 afraid	1343 artichoke	1534 brushes	2125 covote
1153 aftershave	1344 asbestos	1535 bubblegum	2126 coziness
1154 again	1345 ascend	1536 buckle	2131 crawfish
1155 agency	1346 aseptic	1541 buddhist	2132 crewmember
1156 aggressor	1351 ashamed	1542 buffalo	2132 crib
	1352 asinine	1543 bullfrog	2134 croissant
1161 aghast		~	
1162 agitate	1353 asleep	1544 bunny	2135 crumble
1163 agnostic	1354 asocial	1545 busboy	2136 crystal
1164 agonizing	1355 asparagus	1546 buzzard	2141 cubical
1165 agreeing	1356 astronaut	1551 cabin	2142 cucumber
1166 aidless	1361 asymmetric	1552 cactus	2143 cuddly
1211 aimlessly	1362 atlas	1553 cadillac	2144 cufflink
1212 ajar	1363 atmosphere	1554 cafeteria	2145 cuisine
1213 alarmclock	1364 atom	1555 cage	2146 culprit
1214 albatross	1365 atrocious	1556 cahoots	2151 cup
1215 alchemy	1366 attic	1561 cajoling	2152 curry
1216 alfalfa	1411 atypical	1562 cakewalk	2153 cushion
1221 algae	1412 auctioneer	1563 calculator	2154 cuticle
1222 aliens	1413 auditorium	1564 camera	2155 cybernetic
1223 alkaline	1414 augmented		
		1565 canister	•
1224 almanac	9	1565 canister 1566 capsule	2156 cyclist
1224 almanac 1225 alongside	1415 auspicious	1566 capsule	2156 cyclist 2161 cylinder
1225 alongside	1415 auspicious 1416 automobile	1566 capsule 1611 carrot	2156 cyclist 2161 cylinder 2162 cymbal
1225 alongside 1226 alphabet	1415 auspicious 1416 automobile 1421 auxiliary	1566 capsule 1611 carrot 1612 cashew	2156 cyclist 2161 cylinder 2162 cymbal 2163 cynicism
1225 alongside 1226 alphabet 1231 already	1415 auspicious 1416 automobile 1421 auxiliary 1422 avalanche	1566 capsule 1611 carrot 1612 cashew 1613 cathedral	2156 cyclist 2161 cylinder 2162 cymbal 2163 cynicism 2164 cypress
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1225 alongside 1226 alphabet 1231 already 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	1415 auspicious 1416 automobile 1421 auxiliary 1422 avalanche 1423 avenue 1424 aviator 1425 avocado 1426 awareness 1431 awhile 1432 awkward 1433 awning 1434 awoke 1435 axially 1436 azalea 1441 babbling 1442 backpack 1443 badass 1444 bagpipe	1566 capsule 1611 carrot 1612 cashew 1613 cathedral 1614 caucasian 1615 caviar 1616 ceasefire 1621 cedar 1622 celery 1623 cement 1624 census 1625 ceramics 1626 cesspool 1631 chalkboard 1632 cheesecake 1633 chimney 1634 chlorine 1635 chopsticks	2156 cyclist 2161 cylinder 2162 cymbal 2163 cynicism 2164 cypress 2165 cytoplasm 2166 dachshund 2211 daffodil 2212 dagger 2213 dairy 2214 dalmatian 2215 dandelion 2216 dartboard 2221 dastardly 2222 datebook 2223 daughter 2224 dawn 2225 daytime 2226 dazzler
1225 alongside 1226 alphabet 1231 already 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	1415 auspicious 1416 automobile 1421 auxiliary 1422 avalanche 1423 avenue 1424 aviator 1425 avocado 1426 awareness 1431 awhile 1432 awkward 1433 awning 1434 awoke 1435 axially 1436 azalea 1441 babbling 1442 backpack 1443 badass 1444 bagpipe 1445 bakery	1566 capsule 1611 carrot 1612 cashew 1613 cathedral 1614 caucasian 1615 caviar 1616 ceasefire 1621 cedar 1622 celery 1623 cement 1624 census 1625 ceramics 1626 cesspool 1631 chalkboard 1632 cheesecake 1633 chimney 1634 chlorine 1635 chopsticks 1636 chrome	2156 cyclist 2161 cylinder 2162 cymbal 2163 cynicism 2164 cypress 2165 cytoplasm 2166 dachshund 2211 daffodil 2212 dagger 2213 dairy 2214 dalmatian 2215 dandelion 2216 dartboard 2221 dastardly 2222 datebook 2223 daughter 2224 dawn 2225 daytime 2226 dazzler 2231 dealer
1225 alongside 1226 alphabet 1231 already 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	1415 auspicious 1416 automobile 1421 auxiliary 1422 avalanche 1423 avenue 1424 aviator 1425 avocado 1426 awareness 1431 awhile 1432 awkward 1433 awning 1434 awoke 1435 axially 1436 azalea 1441 babbling 1442 backpack 1443 badass 1444 bagpipe 1445 bakery 1446 balancing	1566 capsule 1611 carrot 1612 cashew 1613 cathedral 1614 caucasian 1615 caviar 1616 ceasefire 1621 cedar 1622 celery 1623 cement 1624 census 1625 ceramics 1626 cesspool 1631 chalkboard 1632 cheesecake 1633 chimney 1634 chlorine 1635 chopsticks 1636 chrome 1641 chute	2156 cyclist 2161 cylinder 2162 cymbal 2163 cynicism 2164 cypress 2165 cytoplasm 2166 dachshund 2211 daffodil 2212 dagger 2213 dairy 2214 dalmatian 2215 dandelion 2216 dartboard 2221 dastardly 2222 datebook 2223 daughter 2224 dawn 2225 daytime 2226 dazzler 2231 dealer 2231 dealer 2232 debris
1225 alongside 1226 alphabet 1231 already 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	1415 auspicious 1416 automobile 1421 auxiliary 1422 avalanche 1423 avenue 1424 aviator 1425 avocado 1426 awareness 1431 awhile 1432 awkward 1433 awning 1434 awoke 1435 axially 1436 azalea 1441 babbling 1442 backpack 1443 badass 1444 bagpipe 1445 bakery	1566 capsule 1611 carrot 1612 cashew 1613 cathedral 1614 caucasian 1615 caviar 1616 ceasefire 1621 cedar 1622 celery 1623 cement 1624 census 1625 ceramics 1626 cesspool 1631 chalkboard 1632 cheesecake 1633 chimney 1634 chlorine 1635 chopsticks 1636 chrome	2156 cyclist 2161 cylinder 2162 cymbal 2163 cynicism 2164 cypress 2165 cytoplasm 2166 dachshund 2211 daffodil 2212 dagger 2213 dairy 2214 dalmatian 2215 dandelion 2216 dartboard 2221 dastardly 2222 datebook 2223 daughter 2224 dawn 2225 daytime 2226 dazzler 2231 dealer

2235 deepness	2426 eclipse	2621 eulogy	3212 fruit
2236 defrost	2431 ecosystem	2622 euphemism	3213 fryingpan
2241 degree	2432 ecstasy	2623 euthanize	3214 gadget
2242 dehydrator	2433 edged	2624 evacuation	3215 gainfully
2243 deliverer	2434 editor	2625 evergreen	3216 gallstone
2244 democrat	2435 educator	2626 evidence	3221 gamekeeper
2245 dentist	2436 eelworm	2631 evolution	3222 gangway
2246 deodorant	2441 eerie	2632 exam	3223 garlic
2251 depot	2442 effects	2633 excerpt	3224 gaslight
2252 deranged	2443 eggnog	2634 exerciser	3225 gathering
2253 desktop	2444 egomaniac	2635 exfoliate	3226 gauntlet
2254 detergent	2445 ejection	2636 exhale	3231 gearbox
2255 device	2446 elastic	2641 exist	3232 gecko
2256 dexterity	2451 elbow	2642 exorcist	3233 gem
2261 diamond	2452 elderly	2643 explode	3234 generator
2262 dibs	2453 elephant	2644 exquisite	3235 geographer
2263 dictionary	2454 elfishly	2645 exterior	3236 gerbil
2264 diffuser	2455 eliminator	2646 exuberant	3241 gesture
2265 digit	2456 elk	2651 fabric	3242 getaway
2266 dilated	2461 elliptical	2652 factory	3243 geyser
2311 dimple	2462 elongated	2653 faded	3244 ghoulishly
2312 dinnerware	2463 elsewhere	2654 failsafe	3245 gibberish
2313 dioxide	2464 elusive	2655 falcon	3246 giddiness
2314 diploma	2465 elves	2656 family	3251 giftshop
2315 directory	2466 emancipate	2661 fanfare	3252 gigabyte
2316 dishcloth	2511 embroidery	2662 fasten	3253 gimmick
2321 ditto	2512 emcee	2663 faucet	3254 giraffe
2322 dividers	2513 emerald	2664 favorite	3255 giveaway
2323 dizziness	2514 emission	2665 feasibly	3256 gizmo
2324 doctor	2515 emoticon	2666 february	3261 glasses
2325 dodge	2516 emperor	3111 federal	3262 gleeful
2326 doll	2521 emulate	3112 feedback	3263 glisten
2331 dominoes	2522 enactment	3113 feigned	3264 glove
2332 donut	2523 enchilada	3114 feline	3265 glucose
2333 doorstep	2524 endorphin	3115 femur	3266 glycerin
2334 dorsal	2525 energy	3116 fence	3311 gnarly
2335 double	2526 enforcer	3121 ferret	3312 gnomish
2336 downstairs	2531 engine	3122 festival	3313 goatskin
2341 dozed	2532 enhance	3123 fettuccine	3314 goggles
2342 drainpipe	2533 enigmatic	3124 feudalist	3315 goldfish
2343 dresser	2534 enjoyably	3125 feverish	3316 gong
2344 driftwood	2535 enlarged	3126 fiberglass	3321 gooey
2345 droppings	2536 enormous	3131 fictitious	3322 gorgeous
2346 drum	2541 enquirer	3132 fiddle	3323 gosling
2351 dryer	2542 enrollment	3133 figurine	3324 gothic
2352 dubiously	2543 ensemble	3134 fillet	3325 gourmet
2353 duckling	2544 entryway	3135 finalist	3326 governor
2354 duffel	2545 enunciate	3136 fiscally	3331 grape
2355 dugout	2546 envoy	3141 fixture	3332 greyhound
2356 dumpster	2551 enzyme	3142 flashlight	3333 grill
2361 duplex	2552 epidemic	3143 fleshiness	3334 groundhog
2362 durable	2553 equipment	3144 flight	3335 grumbling
2363 dustpan	2554 erasable	3145 florist	3336 guacamole
2364 dutiful	2555 ergonomic	3146 flypaper	3341 guerrilla
2365 duvet	2556 erratic	3151 foamless	3342 guitar
2366 dwarfism	2561 eruption	3152 focus	3343 gullible
2411 dwelling	2562 escalator	3153 foggy	3344 gumdrop
2412 dwindling	2563 eskimo	3154 folksong	3345 gurgling
2413 dynamite	2564 esophagus	3155 fondue	3346 gusto
2414 dyslexia	2565 espresso	3156 footpath	3351 gutless
2415 eagerness	2566 essay	3161 fossil	3352 gymnast
2416 earlobe	2611 estrogen	3162 fountain	3353 gynecology
2421 easel	2612 etching	3163 fox	3354 gyration
2422 eavesdrop	2613 eternal	3164 fragment	3355 habitat
2423 ebook	2614 ethics	3165 freeway	3356 hacking
2424 eccentric	2615 etiquette	3166 fridge	3361 haggard
2425 echoless	2616 eucalyptus	3211 frosting	3362 haiku
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3363 halogen	3554 jaguar	4145 lantern	4336 mayonnaise
3364 hamburger	3555 jailhouse	4146 laptop	4341 moaning
3365 handgun	3556 jalapeno	4151 laryngitis	4342 mobilize
3366 happiness	3561 jamboree	4152 lasagna	4343 moccasin
3411 hardhat	3562 janitor	4153 latch	4344 modify
3412 hastily	3563 jarring	4154 laundry	4345 moisture
3413 hatchling	3564 jasmine	4155 lavender	4346 molecule
3414 haughty	3565 jaundice	4156 laxative	4351 momentum
3415 hazelnut	3566 jawbreaker	4161 lazybones	4352 monastery
3416 headband	3611 jaywalker	4162 lecturer	4353 moonshine
3421 hedgehog	3612 jazz	4163 leftover	4354 mortuary
3422 hefty	3613 jealous	4164 leggings	4355 mosquito
3423 heinously	3614 jeep	4165 leisure	4356 motorcycle
3424 helmet	3615 jelly	4166 lemon	4361 mousetrap
3425 hemoglobin	3616 jeopardize	4211 length	4362 movie
3426 henceforth	3621 jersey	4212 leopard	4363 mower
3431 herbs	3622 jetski	4213 leprechaun	4364 mozzarella
3432 hesitation	3623 jezebel	4214 lettuce	4365 muckiness
3433 hexagon	3624 jiffy	4215 leukemia	4366 mudflow
3434 hubcap	3625 jigsaw	4216 levers	4411 mugshot
3435 huddling	3626 jingling	4221 lewdness	4411 mugshot 4412 mule
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	3633 jogging	4224 licorice	4415 muppet
3443 human	3634 john	4225 lifeboat	4416 mural
3444 hunter	3635 joinable	4226 lightbulb	4421 mustard
3445 hurricane	3636 jokingly	4231 likewise	4422 mutation
3446 hushing	3641 journal	4232 lilac	4423 myriad
3451 hyacinth	3642 jovial	4233 limousine	4424 myspace
3452 hybrid	3643 joystick	4234 lint	4425  myth
3453 hydrant	3644 jubilant	4235 lioness	4426 nail
3454 hygienist	3645 judiciary	4236 lipstick	4431 namesake
3455 hypnotist	3646 juggle	4241 liquid	4432 nanosecond
3456 ibuprofen	3651 juice	4242 listless	4433 napkin
3461 icepack	3652 jujitsu	4243 litter	4434 narrator
3462 icing	3653 jukebox	4244 liverwurst	4435 nastiness
3463 iconic	3654 jumpiness	4245 lizard	4436 natives
3464 identical	3655 junkyard	4246 llama	4441 nautically
3465 idiocy	3656 juror	4251 luau	4442 navigate
3466 idly	3661 justifying	4252 lubricant	4443 nearest
3511 igloo	3662 juvenile	4253 lucidity	4444 nebula
3512 ignition	3663 kabob	4254 ludicrous	4445 nectar
3513 iguana	3664 kamikaze	4255 luggage	4446 nefarious
3514 illuminate	3665 kangaroo	4256 lukewarm	4451 negotiator
3515 imaging	3666 karate	4261 lullaby	4452 neither
3516 imbecile	4111 kayak	4262 lumberjack	4453 nemesis
3521 imitator	4112 keepsake	4263 lunchbox	4454 neophyte
3522 immigrant	4113 kennel	4264 luridness	4455 nephew
3523 imprint	4114 kerosene	4265 luscious	4456 nervously
3524 iodine	4115 ketchup	4266 luxurious	4461 nest
3525 ionosphere	4116 khaki	4311 lyrics	4462 netting
3526 ipad	4121 kickstand	4312 macaroni	4463 neuron
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3534 iron	4125 kiosk	4316 maimed	4511 niece
3535 irrigation	4126 kissing	4321 majority	4512 nimbleness
3536 island	4131 kite	4322 makeover	4513 nintendo
3541 isotope	4132 kleenex	4323 malformed	4514 nirvana
3542 issueless	4133 knapsack	4324 mammal	4515 nuclear
3543 italicize	4134 kneecap	4325 mango	4516 nugget
3544 itemizer	4135 knickers	4326 mapmaker	4521 nuisance
3545 itinerary	4136 koala	4331 marbles	4522 nullify
3546 itunes	4141 krypton	4332 massager	4523 numbing
3551 ivory	4142 laboratory	4333 matchstick	4524 nuptials
3552 jabbering	4143 ladder	4334 maverick	4525 nursery
3553 jackrabbit	4144 lakefront	4335 maximum	4526 nutcracker

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4531 nylon	5122 pedometer	5313 rearrange	5464 saxophone
4532 oasis	5123 pegboard	5314 rebuilt	5465 scarf
4533 oat	5124 pelican	5315 receipt	5466 scenario
4534 obediently	5125 penguin	5316 reentry	5511 schoolbook
4535 obituary	5126 peony	5321 refinery	5512 scientist
4536 object	5131 pepperoni	5322 register	5513 scooter
4541 obliterate	5132 peroxide	5323 rehydrate	5514 scrapbook
4542 obnoxious	5133 pesticide	5324 reimburse	5515 sculpture
4543 observer	5134 petroleum	5325 rejoicing	5516 scythe
4544 obtain	5135 pewter	5326 rekindle	5521 secretary
4545 obvious	5136 pharmacy	5331 relic	5522 sedative
4546 occupation	5141 pheasant	5332 remote	5523 segregator
4551 oceanic	5142 phonebook	5333 renovator	5524 seismology
4552 octopus	5142 phonebook 5143 phrasing	5334 reopen	5525 selected
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4562 older	5153 plywood	5344 reunion	5535 sesame
4563 olympics	5154 pneumonia	5345 revolver	5536 settler
4564 omissible	5155 podiatrist	5346 rewrite	5541 severely
4565 omnivorous	5156 poetic	5351 rhapsody	5542 shack
4566 oncoming	5161 pogo	5352 rhetoric	5543 shelf
4611 onion	5162 poison	5353 rhino	5544 shirt
4612 onlooker	5163 poking	5354 rhubarb	5545 shovel
4613 onstage	5164 policeman	5355 rhyme	5546 shrimp
4614 onward	5165 poncho	5356 ribbon	5551 shuttle
4615 onyx	5166 popcorn	5361 riches	5552 shyness
4616 oomph	5211 porcupine	5362 ridden	5553 siamese
4621 opaquely	5212 postcard	5363 rigidness	5554 sibling
4622 opera	5213 poultry	5364 rimmed	5555 siesta
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4626 optical	5221 princess	5412 riverboat	5563 sisterhood
4631 opulently	5222 propeller	5413 roamer	5564 sitcom
4632 oscillator	5223 prune	5414 robe	5565 sixfold
4633 osmosis	5224 pry	5415 rocket	5566 sizable
4634 ostrich	5225 pseudo	5416 romancer	5611 skateboard
4635 otherwise	5226 psychopath	5421 ropelike	5612 skeleton
4636 ought	5231 publisher	5422 rotisserie	5613 skies
4641 outhouse	5232 pucker	5423 roundtable	5614 skulk
4642 ovation	5233 pueblo	5424 royal	5615 skylight
4643 oven	5234 pulley	5425 rubber	5616 slapping
4644 owlish	5235 pumpkin	5426 rudderless	5621 sled
4645 oxford	5236 punchbowl	5431 rugby	5622 slingshot
4646 oxidize	5241 puppy	5432 ruined	5623 sloth
4651 oxygen	5242 purse	5433 rulebook	5624 slumbering
4652 oyster	5243 pushup	5434 rummage	5625 smartphone
4653 ozone	5244 putt	5435 running	5626 smelliness
4654 pacemaker	5245 puzzle	5436 rupture	5631 smitten
4655 padlock	5246 pyramid	5441 rustproof	5632 smokestack
	5251 python		
4656 pageant	5252 quarters	5442 sabotage 5443 sacrifice	5633 smudge
4661 pajamas	•		5634 snapshot
4662 palm	5253 quesadilla	5444 saddlebag	5635 sneezing
4663 pamphlet	5254 quilt	5445 saffron	5636 sniff
4664 pantyhose	5255 quote	5446 sainthood	5641 snowsuit
4665 paprika	5256 racoon	5451 saltshaker	5642 snugness
4666 parakeet	5261 radish	5452 samurai	5643 speakers
5111 passport	5262 ragweed	5453 sandworm	5644 sphinx
5112 patio	5263 railroad	5454 sapphire	5645 spider
5113 pauper	5264 rampantly	5455 sardine	5646 splashing
5114 pavement	5265 rancidity	5456 sassy	5651 sponge
5115 payphone	5266 rarity	5461 satchel	5652 sprout
5116 pebble	5311 raspberry	5462 sauna	5653  spur
5121 peculiarly	5312 ravishing	5463 savage	5654 spyglass
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6231 tiptoeing

5655 squirrel	6232 tirade	6365 uppercut
5656 statue	6233 tissue	6366 upright
5661 steamboat	6234 tractor	6411 upstairs
5662 stingray	6235 tree	6412 uptown
5663 stopwatch	6236 tripod	6413 upwind
5664 strawberry	6241 trousers	6414 uranium
5665 student	6242 trucks	6415 urban
5666 stylus	6243 tryout	6416 urchin
6111 suave	6244 tubeless	6421 urethane
6112 subway	6245 tuesday	6422 urgent
6113 suction	6246 tugboat	6423 urologist
6114 suds	6251 tulip	6424 username
6115 suffocate	6252 tumbleweed	6425 usher
6116 sugar	6253 tupperware	6426 utensil
6121 suitcase	6254 turtle	6431 utility
6122 sulphur	6255 tusk	6432 utmost
6123 superstore	6256 tutorial	6433 utopia
6124 surfer	6261 tuxedo	6434 utterance
6125 sushi	6262 tweezers	6435 vacuum
6126 swan	6263 twins	6436 vagrancy
6131 sweatshirt	6264 tyrannical	6441 valuables
6132 swimwear	6265 ultrasound	6442 vanquished
6133 sword	6266 umbrella	6443 vaporizer
6134 sycamore	6311 umpire	6444 varied
6135 syllable	6312 unarmored	6445 vaseline
6136 symphony	6313 unbuttoned	6446 vegetable
6141 synagogue	6314 uncle	6451 vehicle
6142 syringes	6315 underwear	6452 velcro
6143 systemize	6316 unevenness	6453 vendor
6144 tablespoon	6321 unflavored	6454 vertebrae
6145 taco	6322 ungloved	6455 vestibule
6146 tadpole	6323 unhinge	6456 veteran
6151 taekwondo	6324 unicycle	6461 vexingly
6152 tagalong	6325 unjustly	6462 vicinity
6153 takeout	6326 unknown	6463 videogame
6154 tallness	6331 unlocking	6464 viewfinder
6155 tamale	6332 unmarked	6465 vigilante
6156 tanned	6333 unnoticed	6466 village
6161 tapestry	6334 unopened	6511 vinegar
6162 tarantula	6335 unpaved	6512 violin
6163 tastebud	6336 unquenched	6513 viperfish
6164 tattoo	6341 unroll	6514 virus
6165 tavern	6342 unscrewing	6515 visor
6166 thaw	6343 untied	6516 vitamins
6211 theater	6344 unusual	6521 vivacious
6212 thimble	6345 unveiled	6522 vixen
6213 thorn	6346 unwrinkled	6523 vocalist
6214 throat	6351 unyielding	6524 vogue
6215 thumb	6352 unzip	6525 voicemail
6216 thwarting	6353 upbeat	6526 volleyball
6221 tiara	6354 upcountry	6531 voucher
6222 tidbit	6355 update	6532 voyage
6223 tiebreaker	6356 upfront	6533 vulnerable
6224 tiger	6361 upgrade	6534 waffle
6225 timid	6362 upholstery	6535 wagon
6226 tinsel	6363 upkeep	6536 wakeup
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6542 wanderer 6543 wasp 6544 water 6545 waving 6546 wheat 6551 whisper 6552 wholesaler 6553 wick 6554 widow 6555 wielder 6556 wifeless 6561 wikipedia 6562 wildcat 6563 windmill 6564 wipeout 6565 wired 6566 wishbone 6611 wizardry 6612 wobbliness 6613 wolverine 6614 womb 6615 woolworker 6616 workbasket 6621 wound 6622 wrangle 6623 wreckage 6624 wristwatch 6625 wrongdoing 6626 xerox6631 xylophone 6632 yacht 6633 vahoo 6634 yard 6635 yearbook 6636 vesterday 6641 yiddish 6642 yield 6643 yo-yo 6644 yodel 6645 yogurt 6646 yuppie 6651 zealot 6652 zebra 6653 zeppelin 6654 zestfully 6655 zigzagged 6656 zillion 6661 zipping 6662 zirconium 6663 zodiac 6664 zombie 6665 zookeeper 6666 zucchini

# Questions & answers regarding online security

# 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 word 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 on a mobile phone.

# How many words should I use in my passphrase?

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

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

Other accounts like social media can use three words, provided each password is used only once.

# My passphrase is 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, provided the shortened version remains unique within the word list. 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 manager apps 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 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 living in Cambridge, MA. It was first published to Usenet's *sci.crypt.research* on August 1<sup>st</sup>, 1995. For more information, visit http://world.std.com/~reinhold/diceware.html.

This book implements a simplified version developed by the Electronic Frontier Foundation (EFF), which uses only four dice and is optimized for typing on mobile phones.

# What is the danger in re-using a password?

Imagine that you used the same password for an online clothing store, and your e-mail 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 e-mail 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 https://haveibeenpwned.com/ or a similar site, and type in your e-mail address. They track the data leaks released by hackers, and can identify which e-mail addresses were hacked, and how much data was released.

If your e-mail tests positive, immediately change the password for the sites listed *and* any sites that might have used 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 then have to type 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 that appears to be from an organization you have a relationship with, but is actually a trap to get you to give up your password.

Phishing e-mails typically warn you that something is wrong with your account, and urge you to log in via a link. They can be very realistic and insidious.

Always check the URL in any e-mailed links you click, and make sure that they take you to the site you expect. Better yet, ignore links in e-mails and go directly to the website for the organization.

# 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 using easily-guessed security questions, such as your mother's maiden name. When offered an opportunity to enter such security questions, 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 frequently.

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 services.

# What to do if I've been hacked?

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