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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17. Secure passphrases with Diceware

24. Security questions

1	
Web site	
Login or E-mail address	
Passwords used	Date
Notes	

Passwords used

Login or E-mail address

3	
Web site	
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Passwords used	Date
Notes	

Login or E-mail address

Passwords used

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Date

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Passwords used

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Login or E-mail address

Passwords used

Notes

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Passwords used	Date
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Web site

Login or E-mail address

Passwords used

13	
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Passwords used	Date
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Passwords used

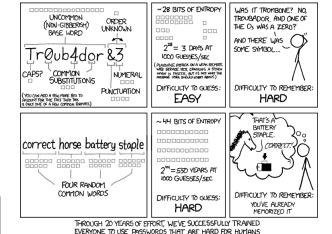
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Passwords used

Secure passphrases with Diceware



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

A five-word passphrase provides a level of security *much* higher than the passwords most people use. For NSA-proof security, use seven words.

1 Decide how many words you want in your passphrase.

- 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 5×4 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:

1 6 6 6

1 6 6 6 5 1 5 6

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:

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.

		1541 buddhist 1542 buffalo 1543 bullfrog 1544 bunny 1546 bunny 1546 bunny 1551 cabin 1552 caclulae 1552 caclulae 1555 cage 1566 cahoots 1563 calcillae 1555 cage 1566 cahoots 1561 cabin 1563 calculator 1563 calculator 1564 camera 1565 canister 1611 carrot 1612 cashew 1613 cathedral 1611 carrot 1612 cashew 1613 cathedral 1615 caviar 1616 ceasefire 1621 cedar 1622 ceramics 1623 cheesecake 1633 chimney 1625 ceramics 1626 cesspool 1626 cesspool 1627 ceramics 1628 cheesecake 1633 chimney 1628 ceramics 1629 ceramics 1629 ceramics 1629 ceramics 1620 cesspool 1621 cedar 1622 cleryman 1624 citycape 1634 chlorinclus 1635 chlorinclus 1636 chrome 1644 citycape 1646 citylian 1652 cleryman 1653 clipboard 1654 clock 1665 chlorinclus 1666 cognitive 1667 coffect 1668 cognitive 1668 cognitive 1669 computer 1111 conhabitate 1211 computer 1212 courametes 1213 computer 1213 computer 1213 computer 1214 courametes 1213 crawmish 1213 crawmish 1213 crawmish 1214 crawmish 1214 courameter 1215 curry 1216 curry 1216 curry 1217 courameter 1218 curry	2
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
1116 abiding	1333 argument	1546 buzzard	2162 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 1125 abvss	1341 arrownead 1342 arsonist	1555 cage	2211 danodii 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 acniness	1340 aseptic 1351 ashamed	1564 camera	2216 dartboard 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
1144 acuteness	1361 asymmetric	1614 caucasian	2220 dazzier 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
1155 aftershave	1411 atypical	1624 cenent	2230 derrost 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
1164 agnostic	1416 automobile	1634 chloring	2246 deodorant
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 alarmetock	1420 awareness 1431 awhile	1644 circle	2256 dexterity 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 alkaiine 1224 almanac	1441 babbling	1654 clock	2311 dimple
1225 alongside	1442 backpack	1655 clubhouse	2312 dinnerware
1226 alphabet	1443 badass	1656 coathanger	2313 dioxide
1231 already	1444 bagpipe	1661 cobweb	2314 diploma
1232 also	1445 bakery	1662 coconut	2315 directory
1233 altitude	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	2111 cohabitate	2324 doctor
1242 amendment	1455 barooka	2112 contarbone	2323 dodge
1244 ammunition	1461 blade	2114 confetti	2331 dominoes
1245 amnesty	1462 blender	2115 copier	2332 donut
1246 amoeba	1463 blimp	2116 cornea	2333 doorstep
1251 amplifier	1464 blouse	2121 cosmetics	2334 dorsal
1252 amuser	1466 bootward	2122 cotton 2122 couch	2226 downstairs
1254 anchor	1511 bobcat	2124 coverless	2341 dozed
1255 android	1512 body	2125 coyote	2342 drainpipe
1256 anesthesia	1513 bogusness	2126 coziness	2343 dresser
1261 angeinsn	1514 bonemian	2131 crawnsn	2344 driftwood
1263 anklet	1516 bonnet	2132 crib	2346 drum
1264 announcer	1521 boots	2134 croissant	2351 dryer
1265 anonymous	1522 borough	2135 crumble	2352 dubiously
1266 answer	1523 bossiness	2136 crystal	2353 duckling
1312 anviety	1524 DOTTIE	2141 cubicai 2142 cucumber	2355 dugout
1313 anyplace	1526 boxlike	2143 cuddly	2356 dumpster
1314 aorta	1531 breath	2144 cufflink	2361 duplex
1315 apartment	1532 briefcase	2145 cuisine	2362 durable
1316 apnea	1533 broom	2146 culprit	2363 dustpan
1322 apostropne 1322 apple	1535 bubblegum	2152 curry	2365 duvet
1323 apricot	1536 buckle	2153 cushion	2366 dwarfism
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21	2624 evacuation 2625 evergreen 2631 evolution 2632 exam 2633 excerpt 2634 exerciser 2636 exhale 2641 exist 2642 exorcise 2636 exhale 2646 exhale 2647 exist 2648 exhering 2656 fabric 2657 fabric 2656 fabric 2656 fabric 2656 falon 2657 falon 2657 falon 2658 falon 2658 falon 2659 falon 2651 fabric 2651 fabric 2656 falon 2651 fabric 2656 falon 2656 falon 2657 falon 2658 falon 2658 falon 2659 falon 2659 falon 2651 fabric 2651 fabric 2651 fabric 2652 falon 2653 faucet 2656 falon 2656 fabriary 2656 february 2561 faufare 2656 february 2561 fabric 2562 faten 2563 faucet 2564 fallsafe 2565 falon 2566 february 2567 february 2568 februa		
2411 dwelling	2624 evacuation	3241 gesture	3454 hygienist
2412 dwindling	2625 evergreen	3242 getaway	3455 hypnotist
2413 dynamite	2626 evidence	3243 geyser	3456 ibuproten
2414 dysiexia 2415 eagerness	2632 evan	3244 ghounshiy 3245 gibberish	3462 icing
2416 earlobe	2633 excerpt	3246 giddiness	3463 iconic
2421 easel	2634 exerciser	3251 giftshop	3464 identical
2422 eavesdrop	2635 exfoliate	3252 gigabyte	3465 idiocy
2423 eDOOK	2641 oviet	3253 gimmick	3400 idiy 2511 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 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 2443 eggnog	2656 family	3313 goatskin	3526 ipad
2444 egomaniac	2661 fanfare	3314 goggles	3531 iphone
2445 ejection	2662 fasten	3315 goldfish	3532 iridescent
2446 elastic	2663 faucet	3316 gong	3533 irksome
2451 elbow	2665 fongibly	3321 gooey	3534 fron 2525 invigation
2452 elderry 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 elk 2461 elliptical	3113 feigned	3326 governor	3543 Italicize
2462 elongated	3115 femur	3332 greyhound	3545 itinerary
2463 elsewhere	3116 fence	3333 grill	3546 itunes
2464 elusive	3121 ferret	3334 groundhog	3551 ivory
2466 emancipate	3122 festival	3336 guacamole	3553 jackrabbit
2511 embroidery	3124 feudalist	3341 guerrilla	3554 jaguar
2512 emcee	3125 feverish	3342 guitar	3555 jailhouse
2513 emerald 2514 emission	3126 fiberglass	3343 gullible 3344 gumdrop	3556 jalapeno 3561 jamboree
2515 emoticon	3132 fiddle	3345 gurgling	3562 janitor
2516 emperor	3133 figurine	3346 gusto	3563 jarring
2521 emulate	3134 fillet	3351 gutless	3564 jasmine
2523 enchilada	3136 fiscally	3353 gynecology	3566 jawbreaker
2524 endorphin	3141 fixture	3354 gyration	3611 jaywalker
2525 energy	3142 flashlight	3355 habitat	3612 jazz
2520 enforcer 2531 engine	3144 Hight	3361 haggard	3614 jean
2532 enhance	3145 florist	3362 haiku	3615 jelly
2533 enigmatic	3146 flypaper	3363 halogen	3616 jeopardize
2534 enjoyably	3151 foamless	3364 hamburger	3621 jersey
2536 enormous	3152 focus 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
2545 enunciate	3162 fountain	3415 hazelnut	3632 jockstrap
2546 envoy	3163 fox	3416 headband	3633 jogging
2551 enzyme	3164 fragment	3421 hedgehog	3634 john
2552 epidemic	3165 fridge	3422 nerty	3635 Joinable
2554 erasable	3211 frosting	3424 helmet	3641 journal
2555 ergonomic	3212 fruit	3425 hemoglobin	3642 jovial
2556 erratic	3213 fryingpan	3426 henceforth	3643 joystick
2562 escalator	3214 gauget 3215 gainfully	3432 hesitation	3645 judiciary
2563 eskimo	3216 gallstone	3433 hexagon	3646 juggle
2564 esophagus	3221 gamekeeper	3434 hubcap	3651 juice
2566 espresso	3222 gangway	3435 huddling 3436 huff	3652 jujitsu 3653 jukebov
2611 estrogen	3224 gaslight	3441 hugeness	3654 jumpiness
2612 etching	3225 gathering	3442 hullabaloo	3655 junkyard
2613 eternal	3226 gauntlet	3443 human	3656 juror
2014 etnics 2615 etiquette	3231 gearbox	3444 nunter	3662 juvenile
2616 eucalyptus	3233 gem	3446 hushing	3663 kabob
2621 eulogy	3234 generator	3451 hyacinth	3664 kamikaze
2622 euphemism 2623 euthanize	3235 geographer 3236 gerbil	3452 hydrant	3666 karate
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4111 kavak	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 4116 khoki	4332 massager	4546 occupation	5162 poison
4121 kickstand	4334 mayorick	4551 oceanic	5164 policeman
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
4120 kissing 4131 kite	4344 modify	4561 ointment	5213 pountry 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
4141 krypton	4354 mortuary	4611 onion	5223 prune 5224 prv
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 onyx	5232 pucker
4151 larvagitie	4364 mozzarella	4621 opaquely	5234 pulley
4152 lasagna	4365 muckiness	4622 opera	5235 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
4161 lazybones	4413 mummy 4414 mundane	4621 opulently	5243 pushup 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
4211 length	4423 myriad 4424 myspace	4641 outhouse	5253 quesadina 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
4210 levers 4221 lewdness	4434 narrator	4651 oxygen	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 Heboat	4442 navigate	4656 pageant	5312 ravisning
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 Honess 4236 linetick	4452 neither 4453 nemesis	4666 parakeet	5322 register 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
4246 llama	4463 neuron	5116 pebble	5332 removator
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 filece	5124 pencan 5125 penguin	5341 rerun 5342 reservoir
4256 lukewarm	4513 nintendo	5126 peopy	5343 retriever
4261 lullaby	4514 nirvana	5131 pepperoni	5344 reunion
4262 lumberjack	4515 nuclear	5132 peroxide	5345 revolver
4263 lunchbox	4516 nugget	5133 pesticide	5346 rewrite
4265 luccione	4521 nuisance 4522 nullify	5135 pewter	5352 rhetoric
4266 luxurious	4523 numbing	5136 pharmacy	5353 rhino
4311 lyrics	4524 nuptials	5141 pheasant	5354 rhubarb
4312 macaroni	4525 nursery	5142 phonebook	5355 rhyme
4313 maestro	4520 nutcracker	5144 physician	5350 ribbon
4315 mahogany	4532 oasis	5144 physician 5145 plank	5362 ridden
4316 maimed	4533 oat	5146 pledge	5363 rigidness
4321 majority	4534 obediently	5151 plotted	5364 rimmed
4322 makeover	4535 obituary	5152 plug	5365 riptide
4525 mailormed	4000 object	3133 piywood	5500 riskily

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5411 ritzv	5625 smartphone	6243 tryout	6461 vexingly
5412 riverboat	5626 smelliness	6244 tubeless	6462 vicinity
5413 roamer	5631 smitten	6245 tuesday	6463 videogame
5414 robe	5632 smokestack	6246 tugboat	6464 viewfinder
5415 rocket	5633 smudge	6251 tulip	6465 vigilante
5416 romancer	5634 snapshot	6252 tumbleweed	6466 village
5421 ropelike	5626 sniff	6254 tupperware	6512 violin
5422 roundtable	5641 enowenit	6255 tuck	6513 vinerfish
5424 royal	5642 snugness	6256 tutorial	6514 virus
5425 rubber	5643 speakers	6261 tuxedo	6515 visor
5426 rudderless	5644 sphinx	6262 tweezers	6516 vitamins
5431 rugby	5645 spider	6263 twins	6521 vivacious
5432 ruined	5646 splashing	6264 tyrannical	6522 vixen
5433 rulebook	5651 sponge	6265 ultrasound	6523 vocalist
5425 running	5652 sprout	6211 umpiro	6525 voicemail
5436 rupture	5654 spyglass	6312 unarmored	6526 volleyball
5441 rustproof	5655 squirrel	6313 unbuttoned	6531 voucher
5442 sabotage	5656 statue	6314 uncle	6532 voyage
5443 sacrifice	5661 steamboat	6315 underwear	6533 vulnerable
5444 saddlebag	5662 stingray	6316 unevenness	6534 waffle
5445 saffron	5663 stopwatch	6321 unflavored	6535 wagon
5440 Sainthood	5665 student	6222 ungloved	6541 walsus
5452 samurai	5666 stylus	6324 unicycle	6542 wanderer
5453 sandworm	6111 suave	6325 unjustly	6543 wasp
5454 sapphire	6112 subway	6326 unknown	6544 water
5455 sardine	6113 suction	6331 unlocking	6545 waving
5456 sassy	6114 suds	6332 unmarked	6546 wheat
5461 satchel	6115 suffocate	6333 unnoticed	6551 whisper
5462 sauna 5462 sauna	6121 suitanse	6225 uppayed	6552 wiek
5464 savonhone	6122 sulphur	6336 unquenched	6554 widow
5465 scarf	6123 superstore	6341 unroll	6555 wielder
5466 scenario	6124 surfer	6342 unscrewing	6556 wifeless
5511 schoolbook	6125 sushi	6343 untied	6561 wikipedia
5512 scientist	6126 swan	6344 unusual	6562 wildcat
5513 scooter	6131 sweatshirt	6345 unveiled	6563 windmill
5515 coulpture	6122 swimwear	6251 unwiolding	6565 wired
5516 scythe	6134 sycamore	6352 unzin	6566 wishbone
5521 secretary	6135 syllable	6353 upbeat	6611 wizardry
5522 sedative	6136 symphony	6354 upcountry	6612 wobbliness
5523 segregator	6141 synagogue	6355 update	6613 wolverine
5524 seismology	6142 syringes	6356 upfront	6614 womb
5525 selected	6144 tableancen	6262 upholstory	6616 workbacket
5531 senator	6145 tage	6363 unkeen	6621 wound
5532 septum	6146 tadpole	6364 upload	6622 wrangle
5533 sequence	6151 taekwondo	6365 uppercut	6623 wreckage
5534 serpent	6152 tagalong	6366 upright	6624 wristwatch
5535 sesame	6153 takeout	6411 upstairs	6625 wrongdoing
5536 settler	6154 tallness	6412 uptown	6626 xerox
5542 shack	6156 tannad	6414 uranium	6632 vacht
5543 shelf	6161 tanestry	6415 urban	6633 vahoo
5544 shirt	6162 tarantula	6416 urchin	6634 yard
5545 shovel	6163 tastebud	6421 urethane	6635 yearbook
5546 shrimp	6164 tattoo	6422 urgent	6636 yesterday
5551 shuttle	6165 tavern	6423 urologist	6641 yiddish
5553 siamese	6211 theater	6425 usher	6643 yoyo
5554 sibling	6212 thimble	6426 utensil	6644 vodel
5555 siesta	6213 thorn	6431 utility	6645 vogurt
5556 silicon	6214 throat	6432 utmost	6646 yuppie
5561 simmering	6215 thumb	6433 utopia	6651 zealot
5562 singles	6216 thwarting	6434 utterance	6652 zebra
5563 sisterhood	6221 tiara	6435 vacuum	6653 zeppelin
5565 sixfold	6222 tiabit	6441 valuables	6655 zigzagged
5566 sizable	6224 tiger	6442 vanquished	6656 zillion
5611 skateboard	6225 timid	6443 vaporizer	6661 zipping
5612 skeleton	6226 tinsel	6444 varied	6662 zirconium
5613 skies	6231 tiptoeing	6445 vaseline	6663 zodiac
5615 skulk	6232 tirade	0446 vegetable	0664 zombie
5616 slapping	6224 treator	6452 volero	6666 guachini
5621 sled	6235 tree	6453 vendor	5500 Zucciiili
5622 slingshot	6236 tripod	6454 vertebrae	
5623 sloth	6241 trousers	6455 vestibule	
5624 slumbering	5625 smartphone 5626 smelliness 5631 smitten 5631 smitten 5631 smitten 5632 smellines 5634 snapshot 5635 sneezing 5636 sinyanit 5642 snugness 5643 speakers 5643 speakers 5643 speakers 5644 sphinx 5651 spong 5653 spur 5653 spur 5655 spur 5655 spur 5656 statue 5656 statue 5656 statue 5656 statue 5651 spong 5652 spur 5653 spur 5655 squirrel 5656 statue 5651 spong 5652 squirrel 5656 statue 5653 stopwatch 5653 stopwatch 5654 student 5656 student 5661 student 6112 subway 6113 subway 6113 subway 6121 subway 6124 supperstore 6125 student 6126 swan 6131 swycamore 6133 syllable 6134 stylmize 6144 tablospoon 6145 takeout 6156 tanned 6156 tanned 6156 tanned 6157 takeout 6156 tanned 6157 takeout 6158 takeout 6159 takeout 6151 takeound 6151 takeound 6152 takeout 6153 takeout 6154 tanned 6155 takeout 6155 takeout 6156 tanned 6157 takeout 6158 takeout 6159 takeout 61	6456 veteran	

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?

documents should use seven words.

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

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 1st, 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 @(1)(\$)

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