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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2	10.	
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17. Secure passphrases	s wi	th Diceware
24. Security questions		

Website	
Login or E-mail address	
Passwords used	Date
Notes	

Website	
website	
Login or E-mail address	
Passwords used	Date

Website	
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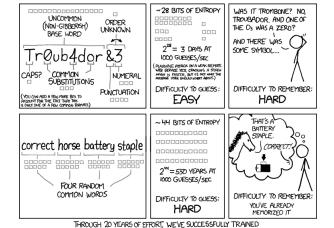
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Secure passphrases with Diceware



EVERYONE TO USE PASSWORDS THAT ARE HARD FOR HUMANS TO REMEMBER, BUT EASY FOR COMPUTERS TO GUESS.

Comic by https://xkcd.com/ @()(8)

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

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:

1666

5156

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 (6^{20}) alternatives that could have been chosen by this method.

1111	aardvark	1324	aquamarine	1541	huddhist	2154 cuticle
1112	abandoned	1325	arachnid	1542	buffalo	2155 cybernetic
1112	abbroviato	1226	araciiiid	1542	bullfrog	2156 cyclict
1111	- L J	1320	arbitrate	1544	Lucia	2161lil
1115	- b b	1222	ardentry	1545	buility built	2162
1116	abiding	1222	arena	1546	busnoy	2162 cymbai
1110	abiding	1224	argument	1551		2164
1121	abnormai	1334	aristocrat	1331	Cabin	2104 Cypress
1122	abrasion	1335	armchair	1552	cactus	2165 cytoplasm
1123	absorbing	1336	aromatic	1553	cadillac	2166 dachshund
1124	abundant	1341	arrowhead	1554	cafeteria	2211 daffodil
1125	abyss	1342	arsonist	1555	cage	2212 dagger
1126	academy	1343	artichoke	1556	cahoots	2213 dairy
1131	accountant	1344	asbestos	1561	cajoling	2214 dalmatian
1132	acetone	1345	ascend	1562	cakewalk	2215 dandelion
1133	achiness	1346	aseptic	1563	calculator	2216 dartboard
1134	acid	1351	ashamed	1564	camera	2221 dastardly
1135	acoustics	1352	asinine	1565	canister	2222 datebook
1136	acquire	1353	asleep	1566	capsule	2223 daughter
1141	acrobat	1354	asocial	1611	carrot	2224 dawn
1142	actress	1355	asparagus	1612	cashew	2225 daytime
1143	acuteness	1356	astronaut	1613	cathedral	2226 dazzler
1144	aerosol	1361	asymmetric	1614	caucasian	2231 dealer
1145	aesthetic	1362	atlas	1615	caviar	2232 debris
1146	affidavit	1363	atmosphere	1616	cessefire	2233 decal
1151	afloat	1364	atom	1621	cedar	2234 dedicate
1152	afraid	1365	atrocious	1622	celery	2235 deepness
1152	- 64 b	1200	-44:-	1602		2226 decphess
1154	arreronave	1411	attract	1624	concus	2241 dogree
1154	again	1411	atypicai	1024	census	2241 degree
1155	agency	1412	auctioneer	1023	ceramics	2242 denydrator
1130	aggressor	1413	auditorium	1020	cesspoor	2245 deliverer
1101	agnast	1414	augmented	1631	chaikboard	2244 democrat
1162	agitate	1415	auspicious	1632	cneesecake	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	1442	backpack	1655	clubhouse	2312 dinnerware
1226	alphabet	1443	hadass	1656	coathanger	2313 dioxide
1231	already	1444	bagnine	1661	cohweb	2314 diploma
1232	aleo	1445	bakery	1662	coconut	2315 directory
1233	altitude	1446	balancing	1663	codeword	2316 dishcloth
1224	aluminum	1451	hambaa	1664	coacword	2221 ditto
1225	aluminum always	1452	banana	1665	coexistent coffoogako	2222 dividore
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1042	i-bl-	1450	bacilione bacilione	2112	conarbone	2323 dodge
1044	iti	1461	LI-J-	2113	f-++:	2020 don
1244	ammunition	1401	blade	2114	cometti	2331 dominoes
1240	amnesty	1402	Llima	2110	copier	2332 donut
1240	amoeba	1403	blane.	2110	cornea	2333 doorstep
1201	ampillier	1404	bloose	2121	connectes	2334 GOESSI
1202	amuser	1400	b to d	2122	COLLOII	2336 J +
1203	anagram	1400	L-L	2123	couch	2330 downstairs
1254	anchor	1011	DODCAT	2124	coveriess	2341 dozed
1255	android	1512	boay	2125	coyote	2342 drainpipe
1256	anesthesia	1513	pogusness	2126	coziness	2343 dresser
1261	angelfish	1514	ponemian	2131	crawhsh	2344 driftwood
1262	animal	1515	Doller	2132	crewmember	2345 droppings
1263	ankiet	1516	Donnet	2133	CTID	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
1311	antelope	1524	bottle	2141	cubical	2354 duffel
1312	anxiety	1525	bouquet	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
1321	apostrophe	1534	brushes	2151	cup	2364 dutiful
1322	apple	1535	bubblegum	2152	curry	2365 duvet
1323	apricot	1536	buckle	2153	cushion	2366 dwarfism
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2411 dwelling	2624	evacuation	3241	gesture	3454	hygienist
2412 dwindling	2625	evergreen	3242	getaway	3455	hypnotist
2412 dwinding	2626	evergreen	2242	getaway	2456	ibuprofor
2414 dyslavia	2621	evidence	2243	ghoulighly	2461	icoppole
2414 dysiexia	2031	evolution	2045	-ibbi-b	2460	icepack
2416 carlobo	2622	exam	2246	giddinoss	2462	iconic
2416 earlobe	2033	excerpt	3240	giddiness -:f4-b	3464	id-stiss1
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2422 eavesdrop	2635	extoliate	3252	gigabyte	3465	idiocy
2423 ebook	2636	exhale	3253	gimmick	3466	idly
2424 eccentric	2641	exist	3254	giraffe	3511	1gloo
2425 echoless	2642	exorcist	3255	giveaway	3512	ignition
2426 eclipse	2643	explode	3256	gizmo	3513	iguana
2431 ecosystem	2644	exquisite	3261	glasses	3514	illuminate
2432 ecstasy	2645	exterior	3262	gleeful	3515	imaging
2433 edged	2646	exuberant	3263	glisten	3516	imbecile
2434 editor	2651	fabric	3264	glove	3521	imitator
2435 educator	2652	factory	3265	glucose	3522	immigrant
2436 eelworm	2653	faded	3266	glycerin	3523	imprint
2441 eerie	2654	failsafe	3311	gnarly	3524	iodine
2442 effects	2655	falcon	3312	gnomish	3525	ionosphere
2443 eggnog	2656	family	3313	goatskin	3526	inad
2444 eromaniac	2661	fanfare	3314	goggles	3531	inhone
2445 ejection	2662	fasten	3315	goldfish	3532	iridescent
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2461 elliptical	3114	feline	3331	grape	3544	itemizer
2462 elongated	3115	femur	3332	greyhound	3545	itinerary
2463 elsewhere	3116	fence	3333	grill	3546	itunes
2464 elusive	3121	ferret	3334	groundhog	3551	ivory
2465 elves	3122	festival	3335	grumbling	3552	jabbering
2466 emancipate	3123	fettuccine	3336	guacamole	3553	jackrabbit
2511 embroidery	3124	feudalist	3341	guerrilla	3554	jaguar
2512 emcee	3125	feverish	3342	guitar	3555	iailhouse
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2535 enlarged 2536 enormous	3151 3152 3153	foamless focus foggy	3363 3364 3365 3366	hamburger handgun happiness	3616 3621 3622 3623	jeopardize jersey jetski jezebel
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2535 enlarged 2536 enormous 2541 enquirer 2542 enrollment 2543 ensemble 2544 entryway 2546 enunciate 2551 exyme 2551 exyme 2552 epidemic 2553 equipment 2554 erasable 2556 ergonomic 2566 esconomic 2560 escalator 2562 escalator 2564 esophagus 2565 espresso 2566 essay	3151 3152 3153 3154 3155 3166 3161 3162 3163 3211 3212 3213 3214 3215 3213 3214 3215 3212 3222 3223	foamless focus focus foggy focus foggy following following following footpath fossil fountain forgment fragment fridge frosting fruit fryingpan gadget gadget gamekeeper gangway garlice.	3363 3364 3366 3411 3412 3413 3414 3415 3421 3422 3423 3424 3425 3426 3431 3432 3434 3434 3434 3435	hamburger handgun happiness hardhat hardhat hastily hastily hastily hastily haughty hazelnut headband hedgelog hefty helmet hemoglobin henceforth herbs herbs herbs herbs hexp huddling huddling hudf	3616 3621 3623 3624 3625 3631 3632 3633 3634 3635 3634 3641 3645 3645 3645 3651 3652	jeopardize jersey jetski jezebel jiffy jezebel jiffy jobholder jockstrap jogging john jokingly journal jovial jovistick jubilant judiciary jugge julicury jugge julicury jugge julicury jugge julicury jugie
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2535 enlarged 2536 enormous 2541 enquirer 2542 enrollment 2543 ensemble 2544 enrollment 2543 ensemble 2546 enurollment 2546 envoy 2551 enzyme 2552 epidemic 2555 equipment 2555 ergonomic 2556 ergonomic 2566 ergonomic 2566 ergonomic 2566 ergonomic 2566 ergonomic 2561 evuption 2562 escallator 2564 escallator 2564 escallator 2564 escallator 2564 escallator 2565 espresso 2566 essay 2611 estrogen 2613 etching 2614 etching 2614 etching 2614 etiquette 2616 etclayptus	3151 3152 3153 3154 3155 3156 3162 3163 3163 3164 3211 3212 3213 3214 3215 3221 3222 3223 3224 3226 3232 3233 3233	foamless focus focus focus focus foggy focus for found food foot food food foot food food foo	3363 3364 3365 3366 3411 3412 3413 3414 3423 3424 3423 3424 3423 3434 3436 3431 3434 3436 3431 3436 3436	hamburger handgun happiness hardhat hastily hatchling haughty haseling haughty haselinud hedgehog hefty heimously helmet hemoglobin henceforth hestation hexagon hubcap huddling huff huff huddling huff huff hudhiness hullabaloo human hunter hurricane hushing	3616 3621 3623 3623 3624 3625 3636 3631 3634 3634 3645 3645 3645 3645 3655 3655	jeopardize jersey jersey jetski jersey jetski jetsko- jetski jigsaw jingling jockstrap jockstrap jogging joinable jokingly journal jovial jovial jovial jovial jujitsu jukebox junpiness junopiness juropiness ju
2535 enlarged 2536 enormous 2541 enquirer 2542 enrollment 2543 ensemble 2544 entryway 2545 enunciate 2546 enunciate 2551 expyme 2551 expyme 2552 epidemic 2553 equipment 2554 erasable 2555 ergonomic 2556 erratic 2562 escalator 2562 escalator 2564 esophagus 2565 espresso 2564 esophagus 2565 espresso 2566 essay 2611 estrogen 2613 etching 2614 etchics 2615 etiquette 2616 eucalyptus 2615 etiquette 2616 eucalyptus 2621 eulogy	3151 3152 3153 3154 3155 3162 3163 3164 3216 3212 3213 3214 3215 3216 3221 3222 3223 3224 3225 3224 3225	foamless focus focus focus focus focus fogsy folksong folksong folksong footpath fossil fountain fox fragment freeway freeway frosting fruit fryingpan gadget gainfully gainfully gainfully gainfully gainfully ganekeeper gangway garlic gaslight gathering gathering gathering gathering gearbox geen generator	3363 3364 3365 3366 3411 3412 3413 3414 3415 3422 3423 3424 3425 3431 3432 3434 3434 3434 3434 3434 3444 344	hamburger handgun happiness hardhat hastily hardhat hastily hazelnut headband hedgehog hefty heinously heimously heimously hemoglobin henceforth herbs hestiation hexagon huddling huddling huff hugeness huddling hurricane hushing hyacinth	3616 3621 3623 3623 3623 3625 3625 3625 3631 3632 3633 3634 3641 3642 3643 3655 3656 3656 3656 3656 3656 3656	jeopardize jersey jetski jersey jetski jezebel jiffy jersey jingling jobholder jockstrap jogsing john joinable jokingly journal joyatick jubilant judiciary juggle jujitsu jukebox junkebox junk
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4111 kayak	4324 mammal	4541 obliterate	5154 pneumonia
4112 keepsake	4325 mango	4542 obnoxious	5155 podiatrist
4112 keepstike	4326 manmaker	4543 observer	5156 poetic
4114 korozono	4221 marbles	4544 obtain	5161 pogo
4115 ketahun	4222 magazare	4545 obvious	5162 poison
4116 khaki	4222 matchetiek	4546 occupation	5162 politing
4121 kiekstand	4224 mayoriak	4551 occupation	5164 policeman
4121 KICKSTANG	4554 maverick	4551 oceanic	5164 ponceman
4122 kilogram	4335 maximum	4552 octopus	5165 poncho
4123 kimono	4336 mayonnaise	4553 ocular	5166 popcorn
4124 kingdom	4341 moaning	4554 office	5211 porcupine
4125 kiosk	4342 mobilize	4555 oftentimes	5212 postcard
4126 kissing	4343 moccasin	4556 oiliness	5213 poultry
4131 kite	4344 modify	4561 ointment	5214 powerboat
4132 kleenex	4345 moisture	4562 older	5215 prairie
4133 knapsack	4346 molecule	4563 olympics	5216 pretzel
4134 kneecap	4351 momentum	4564 omissible	5221 princess
4135 knickers	4352 monastery	4565 omnivorous	5222 propeller
4136 koala	4353 moonshine	4566 oncoming	5223 prune
4141 krypton	4354 mortuary	4611 onion	5224 pry
4142 laboratory	4355 mosquito	4612 onlooker	5225 pseudo
4143 ladder	4356 motorcycle	4613 onstage	5226 psychopath
4144 lakefront	4361 mousetrap	4614 onward	5231 publisher
4145 lantern	4362 movie	4615 onvy	5232 pucker
4146 laptop	4363 mower	4616 comph	5233 pueblo
4151 larvagitie	4364 mozzarella	4621 opaquely	5234 pulley
4152 lacagna	4265 muskinger	4622 opaquery	5225 pumpkin
4152 l-4-b	4266 J.G	4622 opera	5200 pumpum
4155 laten	4300 mudilow	4023 opium	5236 punchbowi
4154 laundry	4411 mugsnot	4024 opossum	5241 puppy
4155 lavender	4412 mule	4625 opponent	5242 purse
4156 laxative	4413 mummy	4626 optical	5243 pusnup
4161 lazybones	4414 mundane	4631 opulently	5244 putt
4162 lecturer	4415 muppet	4632 oscillator	5245 puzzle
4163 leftover	4416 mural	4633 osmosis	5246 pyramid
4164 leggings	4421 mustard	4634 ostrich	5251 python
4165 leisure	4422 mutation	4635 otherwise	5252 quarters
4166 lemon	4423 myriad	4636 ought	5253 quesadilla
4211 length	4424 myspace	4641 outhouse	5254 quilt
4212 leopard	4425 myth	4642 ovation	5255 quote
4213 leprechaun	4426 nail	4643 oven	5256 racoon
4214 lettuce	4431 namesake	4644 owlish	5261 radish
4215 leukemia	4432 nanosecond	4645 exford	5262 ragweed
4216 levers	4433 napkin	4646 oxidize	5263 railroad
4221 lewdness	4434 narrator	4651 oxygen	5264 rampantly
4222 liability	4435 nastiness	4652 ovster	5265 rancidity
4223 library	4436 natives	4653 ozone	5266 rarity
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4234 lint	4451 negotiator	4664 pantyhose	5321 refinery
4235 lioness	4452 neither	4665 paprika	5322 register
4236 lipstick	4453 nemesis	4666 parakeet	5323 rehydrate
4241 liquid	4454 neoliberal	5111 passport	5324 reimburse
4242 listless	4455 nephew	5112 patio	5325 rejoicing
4243 litter	4456 nervously	5113 pauper	5326 rekindle
4244 liverwurst	4461 nest	5114 pavement	5331 relic
4245 lizard	4462 netting	5115 payphone	5332 remote
4246 llama	4463 neuron	5116 pebble	5333 renovator
4251 luau	4464 nevermore	5121 peculiarly	5334 reopen
4252 lubricant	4465 nextdoor	5122 pedometer	5335 reporter
4253 lucidity	4466 nicotine	5123 pegboard	5336 request
4254 ludicrous	4511 niece	5124 pelican	5341 rerun
4255 luggage	4512 nimbleness	5125 penguin	5342 reservoir
4256 lukewarm	4513 nintendo	5126 peony	5343 retriever
4261 lullaby	4514 nirvana	5131 pepperoni	5344 reunion
4262 lumberiack	4515 nuclear	5132 peroxide	5345 revolver
4263 lunchbox	4516 nugget	5133 pesticide	5346 rewrite
4264 luridness	4521 nuisance	5134 petroleum	5351 rhapsody
4265 luscious	4522 nullify	5135 pewter	5352 rhetoric
4266 luvurious	4523 numbing	5136 pharmacy	5353 rhino
4311 lyrice	4524 nuntials	5141 pheasant	5354 rhubarb
4312 macaroni	4525 nurgery	5142 phonebook	5355 rhyme
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4014 IIIGE0110		5144 physician	5361 riches
	4531 nylon		
4314 magazine	4531 nylon	5145 plank	5262 riddon
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4314 magazine 4315 mahogany 4316 maimed 4321 majority	4531 nylon 4532 oasis 4533 oat 4534 obediently	5145 plank 5146 pledge 5151 plotted	5362 ridden 5363 rigidness 5364 rimmed
4315 mahogany 4316 maimed 4321 majority 4322 makeover	4531 nylon 4532 oasis 4533 oat 4534 obediently 4535 obituary	5145 plank 5146 pledge 5151 plotted 5152 plug	5362 ridden 5363 rigidness 5364 rimmed 5365 riptide
4314 magazine 4315 mahogany 4316 maimed 4321 majority 4322 makeover 4323 malformed	4324 mammal 4325 mango 4326 mango 4326 mango 4326 mangonaler 4326 mangonaler 4327 massager 4338 matshatick 4334 matshatick 4335 massinuises 4341 monining 4342 molitile 4343 moccasin 4344 molitile 4344 molitile 4344 molitile 4345 monstery 4353 monsatery 4353 monsinue 4354 mortuary 4354 mortuary 4355 monstery 4353 monoshine 4356 motorcycle 4361 mousetrap 4362 move 4363 mowerrella 4365 muckiness 4366 mufflow 4411 musetrap 4414 mundane 4415 murpet 4416 mural 4421 musetrap 4431 manesake 4432 manesake 4443 manesake 4443 manesake 4444 merarite 4445 mattickly 4446 manesake 4447 manesake 4448 mattickly 4449 manesake 4449 manesake 4449 manesake 4441 merarite 4441 merarite 4441 merarite 4443 manesake 4444 merarite 4445 mattickly 4456 mil 4457 manesake 4446 merarite 4447 merarite 4448 mattickly 4458 mattickly 4469 mil 4459 merarite 4451 militer 4451 militer 4511 militer 4521 militer 4521 militer 4521 militer 4521 militer 4522 musetry 4523 murper 4523 murper 4524 murper 4525 murper 4534 obediently 4535 object	5145 plank 5146 pledge 5151 plotted 5152 plug 5153 plywood	5362 ridden 5363 rigidness 5364 rimmed 5365 riptide 5366 riskily

5411 ritzy	5624 slumbering	6241 trousers	6454 vertebrae
5412 riverboat	5625 smartphone	6242 trucks	6455 vestibule
5413 roamer	5626 smelliness	6243 tryout	6456 veteran
5414 robo	5621 emitten	6244 tubologo	6461 vovingly
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5416 romancer	5622 smudge	6246 tugbont	6462 videogenme
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5421 ropenke	5654 Shapshot	0251 tunp	6464 Viewiinder
5422 rotisserie	5635 sneezing	6252 tumbleweed	6465 Vigilante
5423 roundtable	5636 snift	6253 tupperware	6466 village
5424 royal	5641 snowsuit	6254 turtle	6511 vinegar
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
5442 aparifico	5656 status	6212 unbuttoned	6526 volleyball
5444 anddlobna	5661 steemboot	6214 ungle	6521 voucher
5445 coffron	5662 stingen	6215 undormore	6522 voucher
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5455 sardine	6112 subway	6325 unjustly	6542 wanderer
5456 sassy	6113 suction	6326 unknown	6543 wasp
5461 satchel	6114 suds	6331 unlocking	6544 water
5462 sauna	6115 suffocate	6332 unmarked	6545 waving
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5464 saxophone	6121 suitcase	6334 unopened	6551 whisper
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5466 scenario	6123 superstore	6336 unquenched	6553 wick
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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
5526 semicolon	6143 systemize	6356 upfront	6613 wolverine
5531 senator	6144 tablespoon	6361 upgrade	6614 womb
5532 septum	6145 taco	6362 upholstery	6615 woolworker
5533 sequence	6146 tadpole	6363 upkeep	6616 workbasket
5534 serpent	6151 taekwondo	6364 upload	6621 wound
5535 sesame	6152 tagalong	6365 uppercut	6622 wrangle
5536 settler	6153 takeout	6366 upright	6623 wreckage
5541 severely	6154 tallness	6411 upstairs	6624 wristwatch
5542 shack	6155 tamale	6412 uptown	6625 wrongdoing
5543 shelf	6156 tanned	6413 upwind	6626 xerox
5544 shirt	6161 tapestry	6414 uranium	6631 xylophore
5545 shovel	6162 tarantula	6415 urban	6632 vacht
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5562 singles	6215 thumb	6432 utmost	6645 yogurt
5563 sisterhood	6216 thwarting	6433 utopia	6646 упрріе
5564 sitcom	6221 tiara	6434 utterance	6651 zealot
5565 sixfold	6222 tidbit	6435 vacuum	6652 zebra
5566 sizable	6223 tiebreaker	6436 vagrancy	6653 zeppelin
5611 skateboard	6224 tiger	6441 valuables	6654 zestfully
5612 skeleton	6225 timid	6442 vanquished	6655 zigzagged
5613 skies	6226 tinsel	6443 vaporizer	6656 zillion
5614 skulk	6231 tiptoeing	6444 varied	6661 zipping
5615 skylight	6232 tirade	6445 vaseline	6662 zirconium
5616 slapping	6233 tissue	6446 vegetable	6663 zodiac
5621 sled	6234 tractor	6451 vehicle	6664 zombie
5622 slingshot	6235 tree	6452 velcro	6665 zookeeper
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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 1st, 1995. For lots more information, visit https://goo.gl/xobzeV. This book implements a simplified version developed by

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