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

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Scene - i

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

Margaret This information needs to stay secret.

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

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

Harriet Then you make the password.

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

Margaret rolls the dice

Margaret 1 6 6 6; that's cognitive.

She rolls the dice again

Margaret 5 1 5 6; that's poetic.

Harriet What's a passphrase?

MARGARET A password made from words stuck together.

And with enough words chosen randomly, reasonably secure.

Margaret rolls the dice three more times

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

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

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

What is a Diceware passphrase?

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

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

Directions

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

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

1111	aardvark	1324	aguamarine	1541 buddhist	2154 cuticle
1112	abandoned	1325	arachnid	1542 buffalo	2155 cybernetic
1112	abandoned	1226	aracimiu	1542 bullfrog	2156 cyclist
1114	abdomon	1221	ardontly	1544 buppy	2161 cylindor
1115	- bb	1222	ardentry	1545 bush	2162
1116	abilding	1222	arena arena	1546 buggard	2162 cymbai 2162 cymiaiam
1110	abiding	1224	argument	1540 Buzzard	2163 Cynicism
1121	abnormai	1334	aristocrat	1331 Cabin	2104 Cypress
1122	abrasion	1335	armchair	1552 cactus	2165 cytoplasm
1123	absorbing	1336	aromatic	1553 cadillac	2166 dachshund
1124	abundant	1341	arrowhead	1554 cafeteria	2211 daffodil
1125	abyss	1342	arsonist	1555 cage	2212 dagger
1126	academy	1343	artichoke	1556 cahoots	2213 dairy
1131	accountant	1344	asbestos	1561 cajoling	2214 dalmatian
1132	acetone	1345	ascend	1562 cakewalk	2215 dandelion
1133	achiness	1346	aseptic	1563 calculator	2216 dartboard
1134	acid	1351	ashamed	1564 camera	2221 dastardly
1135	acoustics	1352	asinine	1565 canister	2222 datebook
1136	acquire	1353	asleep	1566 capsule	2223 daughter
1141	acrobat	1354	asocial	1611 carrot	2224 dawn
1142	actress	1355	asparagus	1612 cashew	2225 daytime
1143	acuteness	1356	astronaut	1613 cathedral	2226 dazzler
1144	aerosol	1361	asymmetric	1614 caucasian	2231 dealer
1145	aesthetic	1362	atlas	1615 caviar	2232 debris
1146	n ffidavit	1262	atmosphore	1616 concefive	2222 deepl
1151	n floor	1264	atmosphere	1621 coder	2224 dediente
1152	n froid	1265	atom	1622 colory	2225 deeppess
1152	arraid.	1000	atrocious	1022 Celely	2233 deephess
1155	aitersnave	1300	attic	1025 cement	2230 derrost
1154	again	1411	atypicai	1624 census	2241 degree
1155	agency	1412	auctioneer	1625 ceramics	2242 denydrator
1156	aggressor	1413	auditorium	1626 cesspool	2243 deliverer
1161	aghast	1414	augmented	1631 chalkboard	2244 democrat
1162	agitate	1415	auspicious	1632 cheesecake	2245 dentist
1163	agnostic	1416	automobile	1633 chimney	2246 deodorant
1164	agonizing	1421	auxiliary	1634 chlorine	2251 depot
1165	agreeing	1422	avalanche	1635 chopsticks	2252 deranged
1166	aidless	1423	avenue	1636 chrome	2253 desktop
1211	aimlessly	1424	aviator	1641 chute	2254 detergent
1212	ajar	1425	avocado	1642 cilantro	2255 device
1213	alarmelock	1426	awareness	1643 cinnamon	2256 dexterity
1214	albatross	1431	awhile	1644 circle	2261 diamond
1215	alchemy	1432	awkward	1645 cityscape	2262 dibs
1216	alfalfa	1433	awning	1646 civilian	2263 dictionary
1221	algae	1434	awoke	1651 clay	2264 diffuser
1222	aliens	1435	avially	1652 clergyman	2265 digit
1222	alkalina	1426	ngalon	1652 clipboard	2266 dilated
1223	- l	1441	b - b b li	1654 -ll-	2211 1:1-
1224	almanac	1441	babbing	1654 CIOCK	2311 dimple
1223	alongside	1442	Dackpack	1055 Ciubnouse	2312 dinnerware
1226	aipnabet	1443	badass	1656 coatnanger	2313 dioxide
1231	aiready	1444	Dagpipe	1661 CODWED	2314 dipioma
1232	aiso	1445	Dakery	1662 coconut	2315 directory
1233	altitude	1446	balancing	1663 codeword	2316 dishcloth
1234	aluminum	1451	bamboo	1664 coexistent	2321 ditto
1235	always	1452	banana	1665 coffeecake	2322 dividers
1236	amazingly	1453	barracuda	1666 cognitive	2323 dizziness
1241	ambulance	1454	basket		
1242	amendment			2111 Collabitate	2324 doctor
1243		1400	bathrobe	2112 collarbone	2324 doctor 2325 dodge
	amiable	1456	bazooka	2112 collarbone 2113 computer	2324 doctor 2325 dodge 2326 doll
1244	amiable ammunition	1456 1461	bazooka blade	2112 collarbone 2113 computer 2114 confetti	2324 doctor 2325 dodge 2326 doll 2331 dominoes
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2423 ebook	2636 exhale	3253 gimmick	3466 idly
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2425 echoless	2642 exorcist	3255 giveaway	3512 ignition
2426 eclipse	2643 explode	3256 gizmo	3513 iguana
2431 ecosystem	2644 exquisite	3261 glasses	3514 illuminate
2432 ecstasy	2645 exterior	3262 gleeful	3515 imaging
2433 edged	2646 exuberant	3263 glisten	3516 imbecile
2434 editor	2651 fabric	3264 glove	3521 imitator
2435 educator	2652 factory	3265 glucose	3522 immigrant
2436 eelworm	2653 faded	3266 glycerin	3523 imprint
2441 eerie	2654 failsafe	3311 gnarly	3524 iodine
2442 effects	2655 falcon	3312 gnomish	3525 ionosphere
2443 eggnog	2656 family	3313 goatskin	3526 ipad
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2462 elongated	3115 femur	3332 greyhound	3545 itinerary
2463 elsewhere	3116 fence	3333 grill	3546 itunes
2464 elusive	3121 ferret	3334 groundhog	3551 ivory
2465 elves	3122 festival	3335 grumbling	3552 jabbering
2466 emancipate	3123 fettuccine	3336 guacamole	3553 jackrabbit
2511 embroidery	3124 feudalist	3341 guerrilla	3554 jaguar
2512 emcee	3125 feverish	3342 guitar	3555 jailhouse
2513 emerald	3126 fiberglass	3343 gullible	3556 jalaneno
2514 emission	3131 fictitions	3344 gumdron	3561 jamboree
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2533 enigmatic	3146 Hypaper	3363 halogen	3616 jeopardize
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2535 enlarged	3152 focus	3365 handgun	3622 jetski
2536 enormous	3153 foggy	3366 happiness	3623 jezebel
2541 enquirer	3154 folksong	3411 hardhat	3624 jiffy
2542 enrollment	3155 fondue	3412 hastily	3625 jigsaw
2543 ensemble	3156 footpath	3413 hatchling	3626 jingling
2544 entryway	3161 fossil	3414 haughty	3631 jobholder
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2546 envoy	3162 fountain 3163 fox	3415 hazelnut 3416 headband	3632 jockstrap 3633 jogging
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4112 keepstike	4326 manmaker	4543 observer	5156 poetic
4114 kerosene	4221 marbles	4544 obtain	5161 pogo
4115 ketahun	4222 magazare	4545 obvious	5162 poison
4116 khaki	4222 matchetiek	4546 occupation	5162 politing
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4121 KICKSTANG	4554 maverick	4551 oceanic	5164 ponceman
4122 kilogram	4335 maximum	4552 octopus	5165 poncho
4123 kimono	4336 mayonnaise	4553 ocular	5166 popcorn
4124 kingdom	4341 moaning	4554 office	5211 porcupine
4125 kiosk	4342 mobilize	4555 oftentimes	5212 postcard
4126 kissing	4343 moccasin	4556 oiliness	5213 poultry
4131 kite	4344 modify	4561 ointment	5214 powerboat
4132 kleenex	4345 moisture	4562 older	5215 prairie
4133 knapsack	4346 molecule	4563 olympics	5216 pretzel
4134 kneecap	4351 momentum	4564 omissible	5221 princess
4135 knickers	4352 monastery	4565 omnivorous	5222 propeller
4136 koala	4353 moonshine	4566 oncoming	5223 prune
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4144 lakefront	4361 mousetrap	4614 onward	5231 publisher
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4162 lecturer	4415 muppet	4632 oscillator	5245 puzzle
4163 leftover	4416 mural	4633 osmosis	5246 pyramid
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4165 leisure	4422 mutation	4635 otherwise	5252 quarters
4166 lemon	4423 myriad	4636 ought	5253 quesadilla
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4212 leopard	4425 myth	4642 ovation	5255 quote
4213 leprechaun	4426 nail	4643 oven	5256 racoon
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4225 lifeboat	4442 navigate	4655 padlock	5312 ravishing
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4231 likewise	4444 nebula	4661 pajamas	5314 rebuilt
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4233 limousine	4446 nefarious	4663 pamphlet	5316 reentry
4234 lint	4451 negotiator	4664 pantyhose	5321 refinery
4235 lioness	4452 neither	4665 paprika	5322 register
4236 lipstick	4453 nemesis	4666 parakeet	5323 rehydrate
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4243 litter	4456 nervously	5113 pauper	5326 rekindle
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4246 llama	4463 neuron	5116 pebble	5333 renovator
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4252 lubricant	4465 nextdoor	5122 pedometer	5335 reporter
4253 lucidity	4466 nicotine	5123 pegboard	5336 request
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5616 slapping	6233 tissue	6446 vegetable	6663 zodiac
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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 the Electronic Frontier Foundation (EFF) in 2016.

What is the danger in reusing a password?

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

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

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

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

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

What is two-factor authentication?

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

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

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

What is phishing?

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

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

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

What is social engineering?

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

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

How can I stay safe online?

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

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

What to do if I've been hacked?

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

Record of Important Things © (1) (\$

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:

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