QUENCE - INSTRUCTIONS

(2025 Feb 11 version)

Quence is a password generator that makes strong, short, memorable passwords. To use it, you only need this document (including the two attached tables), and a six-sided die. Having two or four six-sided dice might make it easier.

Quence makes fake words like 'apetol', 'shults', 'phabid'... Each word is made from a half-word from the FIRST 3 table plus a half-word from the LAST 3 table. Each table is a 6×6 grid of blocks. Each block is a 6×6 grid of half-words.

1. Look at the FIRST 3 table.

Choose a random block by rolling the die for the row, then rolling the die for the column. Example: rolling 1 and then 2 leads to row 1 and column 2: the block with 'abo' and 'cal'.

2. Look at that block.

Roll the die twice more to choose a random half-word from that block, in the same way. Example: rolling 3 and then 4 leads to row 3 and column 4: the half-word 'ape'.

3. Look at the LAST 3 table.

Repeat the same steps, rolling four more times to choose a random half-word from the table. Example: rolling 6, 1, 2, 4 leads to the half-word 'tol'.

4. Put these half-words together to make a word.

Example: 'apetol'

If the word isn't good (like 'oatnto'), you can throw out that word and start again.

5. Repeat steps 1-4 to make as many words as you want.

Example: rolling 5 5 5 2 4 3 1 3 creates 'shults', and 5 2 1 1 1 5 4 1 creates 'phabid'.

6. Connect the words together to make a password.

Example: capitalize and put periods between them: Apetol.Shults.Phabid or just put them together: apetolshultsphabid

How many words for a strong password?

Three words (Example: apetol.shults.phabid) is a reasonably strong password for most applications. Four words (Example: apetol.shults.phabid.feaser) is a very strong password for any application. More than that is probably more than necessary for any practical application.

(If you want precise numbers: each 6-letter word contributes 20 bits of entropy. So three words is a 60-bit password, which is considered moderately strong, and four words is an 80-bit password, which is considered very strong. Five words is a 100-bit password, which is extremely strong, and probably unnecessary for most uses. A page explaining the details, and explaining "bits of entropy," is coming soon.)

An automatic digital version of Quence, and related files, are available at github.com/krysdam/quence

aba abb abd abe abi abl	abo abr abs abu aca acc	ace ach aci ack acq acr	act acu ada add ade adh	adj adm ado adu adv aer	aff afo afr aft aga age
agg agi ago agr ahe aid	aim air ala alb alc ale	alf alg ali alk all alm	alo alp alr als alt alu	alw ama amb ame ami amm	amo amp ana anc and ane
ang ani ann ano ans ant	anx any apa ape apo app	apr aqu ara arb arc are	arg ari arm aro arr art	asc ash asi ask asp ast	ath atl atm ato att aud
aug aus aut ava ave avi	avo awa axi bab bac bad	bag bai bak bal ban bap	bar bas bat bay bea bec	bed bee bef beg beh bei	bel ben ber bes bet bey
bia bib bid big bil bin	bio bir bis bit bla ble	bli blo blu boa bob bod	boi bol bom bon boo bor	bos bot bou bow box boy	bra bre bri bro bru buc
bud buf bui bul bun bur	bus but buy cab cad cal	cam can cap car cas cat	cau cav cea cel cem cen	cer cha che chi chl cho	chr chu cin cir cit civ
	coc cod coe cof cog coh	coi col com con coo cop	cor cos cot cou cov cow	-	cub cul cup cur cus cut
cyc cyl dad dai dal dam		day dea deb dec ded dee	def deg del dem den dep	der des det dev dia dic	did die dif dig dil dim
din dio dip dir dis div		don doo dor dos dot dou	dow doz dra dre dri dro	dru dry dub duc due duk	dul dum dun dup dur dus
dut dwe dyn eac eag ear	_	edu edw eff egg egy eig	eit ela eld ele eli ell		emo emp ena enc end ene
enf eng enh enj enl eno		equ era ere eri ero err	esc esp ess est ete eth	eur eva eve evi evo exa	exc exe exh exi exp ext
eye fab fac fai fal fam	fan far fas fat fau fav	fax fea feb fed fee fel	fem fen fer fes fet fev	few fib fic fid fie fif	fig fil fin fir fis fit
fiv fix fla fle fli flo	flu fly foc fol fon foo	for fos fou fra fre fri	fro fru fue ful fun fur	fus fut gai gal gam gan	gap gar gas gat gau gav
gaz gea gen geo ger ges	get gif gil gir giv gla	gle gli glo glu goa god	goe goi gol gon goo gor	gos got gov gra gre gri	gro gru gua gue gui gul
gun guy hab had hai hal		hau hav haw hay haz hea	hei hel hem hen her hes	het hid hig hil him hin	hir his hit hol hom hon
hoo hop hor hos hot hou	how hug hum hun hur hus	hyd hyp ice ide ign ill	ima imm imp ina inc ind	ine inf ing inh ini inj	inl inn ino inp inq ins
int inv ion iow ira ire		isr iss ita ite its jac	jam jan jea jef jen jer	jes jim job joh joi jon	jos jou joy jud jul jum
jun jur jus kan kar kat		kid kil kin kis kit kne	kni kno kon kor lab lac	lad lag lai lak lam lan	lap lar las lat lau law
jan jan jas kan kan kac	Rec Rec Ren Rep Ren Rey	Ned Nee New Nes Nee Nile	NITE NITE NOT NOT EAST EAST	tad tag tat tak tan tan	tap ta. tas tat taa ta.
lay lea lec led lee lef	leg lei len leo les let	lev lew lia lib lic lie	lif lig lik lil lim lin	lip liq lis lit liv loa	lob loc lod log lon loo
lor los lot lou lov low	loy luc lum lun lut lyi	lym mac mad mag mah mai	maj mak mal mam man map	mar mas mat mau max may	mcc mcg mea mec med mee
mel mem men mer mes met	mex mic mid mig mil min	mir mis mit mix mob mod	moi mol mom mon moo mor	mos mot mou mov muc mul	mun mur mus mut mys myt
nai nam nan nap nar nas	nat nav nea nec nee neg	nei nel neo ner nes net	neu nev new nex nic nin	nit nob nod noi nom non	nor nos not nou nov now
nuc num nur nut oak oat	obe obj obl obs obt obv	occ oce oct odd off oft	ohi oil old oli omi onc	one onl ont ope opi opp	opt ora orb orc ord ore
org ori orn ort osc ost	oth ott oug our out ove	owe owi own oxf oxi oxy	pac pad pag pai pal pan	pap par pas pat pau pav	pay pea pec ped pee pel
pen peo pep per pes pet	pha phe phi pho phr phy	pia pic pie pig pil pin	pio pip pis pit pla ple		pon poo pop por pos pot
pou pov pow pra pre pri	pro pru psy pub pul pum	pun pup pur pus put pyr	qua que qui quo rab rac	_	rap rar rat raw ray rea
reb rec red ree ref reg	reh rei rej rel rem ren	reo rep req res ret rev	rew rhe rho rhy rib ric		riv roa rob roc rod rog
rol rom roo ros rot rou	-	rum run rur rus rut sab		sal sam san sar sat sau	sav saw say sca sce sch
	sed see seg sei sel sem	sen sep seq ser ses set	sev sew sha she shi sho	•	sil sim sin sir sis sit
six siz ske ski sky sla	sle sli slo slu sma sme	smi smo sna sno soa soc	sod sof soi sol som son	soo sop sor sou sov spa	spe sph spi spl spo spr
spu squ sta ste sti sto	str stu sty sub suc sud	suf sug sui sul sum sun	sup sur sus swa swe swi	swo sym syn syr sys tab	tac tai tak tal tam tan
tap tar tas tau tax tay	tea tec tee tel tem ten	ter tes tex tha the thi	tho thr thu thy tic tid	tie tig til tim tin tip	tir tis tit tob tod tog
tok tol tom ton too top	tor tot tou tow tox tra	tre tri tro tru try tub	tum tun tur twe twi two	typ ult una unb unc und	une unf unh uni unk unl
unm unn unp unr uns unt		•	usu uti utt vac val van	var vas vec veg veh vei	vel ven ver ves vet via
	unu unw upo upp ups ubw	uib uig uit usa use ust	usu utt utt vac vat vall	val vas vec ved vell vet	ver veli vel ves ver via
	unu unw upo upp ups upw vin vio vir vis vit viv	urb urg uri usa use usi voc voi vol von vot vul		_	
vib vic vid vie vig vil wes wet wha whe whi who	unu unw upo upp ups upw vin vio vir vis vit viv why wic wid wif wil win	voc voi vol von vot vul wir wis wit wol wom won	wag wai wak wal wan war woo wor wou wra wre wri	was wat wav way wea web	wed wee wei wel wen wer yie yor you zea zer zon

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ari ark arl arm arn arp	arr ars art ary asa ase	ash ask asm asp ass ast	asy ata ate ath ati ato	ats att aty aud aul aus	aux ava ave avy awa awn
aws aya ays aze azy bad	bag bal ban bar bat bay	bby bec bed bee bel ben	ber bes bet bey bia bic	bid big bin bis bit ble	bly bob bol bon bor bot
bow box boy bra bre bts	bus but buy cal can cap	car cas cat cay cca cco	ced cel cer ces che chi	cho chs cht chy cia cid	cil cin cis cit cke cks
cky cle cob col com con	cow cox cre cro cry cta	cts cue cum cup cur cus	cut dad dae dal dam dan	dar das day dds ddy dea	ded del dem den deo der
	die din dio dis dit dix	• •	dos dow dox dra dro dry		eaf eah eak eal eam ean
•	eby ece ech eck ect eda	ede edo eds edy eed eef	eek eel eem een eep eer		egg ego egs egy eid eil
	ele elf eli ell elm elp	els elt ely ema eme emi	emn ems emy ena end ene	_	eon eph eps ept era erb
_	ern ero ers ert ery esa	ese esh esk ess est esy	eta ete eth eto ets ett	•	evy ews ext eye eys eze
fan far fat fax fed fee	fer few ffs fic fig fin	fit fix fle fly for fox	fth fts fty ful fun fur	gal gan gap gar gas gay	ged gee gel gen ger ges
get ggs ghs ght gia gic	gid gie gin gle gly gma	gne gns god gon gor gos	got gro gry gst gth gue	gun gus guy had hai hal	ham han hap har has hat
have have had had had	han han han han hat hav.			had has hall ham has has	haa haa haa haa haa haa
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jan jet jim job joe jor	joy kay ked kee kel ken	-	, ,	lae lag lah lam lan lap	•
tea ted tee teg tet tem	len leo ler les let lew	tex tey int ita lic itd	lie lim lin lio lip lis	lit iks ila ile ili ilo	its ity ims log ion lop
lor los lot low loy lph	lps lry lse lsh lso lst	lta lth lts lty lub lue	lum lus lux lve lyn mac	mad mal man map mar mas	mat max may mbs med mel
men mer mes met mia mic	mid min mis mit mix mly	mma mme mmy mns mom mon	mor mos mph mps mpt mud	mum mus nah nal nam nan	nar nas nat nay nce nch
act acy ada ada adi ada					,
nct ncy nda nde ndi ndo	nds ndy nea ned nee nel	nen ner nes net new ney	nga nge ngo ngs nia nic	nie nin nio nis nit nks	nly nna nne nny nol non
nor nos not now nry nse	nds ndy nea ned nee nel nst nta nte nth nti nto	nen ner nes net new ney nts nty nue num nus nut	nga nge ngo ngs nia nic nyl nza nze oad oak oal		ock oda odd ode ods ody
			nyl nza nze oad oak oal		•
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