

John the Ripper

- Print usage summary `--help`
- "Single crack" mode, using default or named rules `--single[=SECTION[...]]`
- Same, using "immediate" rule(s) `--single=rule[...]`
- Add static seed word(s) for all salts in single mode `--single-seed=WORD[WORD]`
- "Short" wordlist with static seed words/morphemes `--single-wordlist=FILE`
- Wordlist with seeds per username (user:password[s] format) `--single-user-seed=FILE`
- Override max. number of word pairs generated (6) `--single-pair-max=N`
- Disable single word pair generation `--no-single-pair`
- Override config for SingleRetestGuess `--[no-]single-retest-guess`
- Wordlist mode, read words from FILE or stdin --pipe like --stdin, but bulk reads, and allows rules `--wordlist[=FILE] --stdin`
- Enable word mangling rules (for wordlist or PRINCE modes), using default or named rules `--rules[=SECTION[...]]`
- Same, using "immediate" rule(s) `--rules=rule[...]`
- Stacked rules, applied after regular rules or to modes that otherwise don't support rules `--rules-stack=SECTION[...]`
- Same, using "immediate" rule(s) `--rules-stack=rule[...]`
- Skip any NOP "." rules (you already ran w/o rules) `--rules-skip-nop`
- Like --wordlist, but extract words from a .pot file `--loopback[=FILE]`
- Size threshold for wordlist preload (default 2048 MB) `--mem-file-size=SIZE`
- Suppress all dupes in wordlist (and force preload) `--dupe-suppression`
- "Incremental" mode [using section MODE] `--incremental[=MODE]`
- Override CharCount for incremental mode `--incremental-charcount=N`
- External mode or word filter `--external=MODE`
- Mask mode using MASK (or default from john.conf) `--mask[=MASK]`
- "Markov" mode `--markov[=OPTIONS]`
- "Markov" stats file `--mkv-stats=FILE`
- PRINCE mode, read words from FILE `--prince[=FILE]`
- Change verbosity (1-5 or 6 for debug, default 3) `--verbosity=N`
- Disables creation and writing to john.log file `--no-log`
- Treat bare hashes as valid (Y/N) `--bare-always-valid=Y`
- Catch up with existing (paused) session NAME `--catch-up=NAME`
- Use FILE instead of john.conf or john.ini `--config=FILE`
- Input encoding (eg. UTF-8, ISO-8859-1). `--encoding=NAME`
- Input encoding (alias for --encoding) `--input-encoding=NAME`
- Codepage used in rules/masks `--internal-codepage=NAME`
- Output encoding (used by format) `--target-encoding=NAME`
- Set up terminal for reading keystrokes even if we're not the foreground process `--force-pty`
- Use 'C' instead of the ':' in input and pot files `--field-separator-char=C`
- Try finding plaintext collisions `--[no-]keep-guessing`
- List capabilities, see --list=help `--list=WHAT`
- Shortcut for --min-len=N --max-len=N `--length=N`
- Request a minimum candidate length in bytes `--min-length=N`
- Request a maximum candidate length in bytes `--max-length=N`
- Fetch words from a .pot file `--prince-loopback[=FILE]`
- Minimum number of elements per chain (1) `--prince-elem-cnt-min=N`
- Maximum number of elements per chain (negative N is relative to word length) (8) `--prince-elem-cnt-max=[-]N`
- Initial skip `--prince-skip=N`
- Limit number of candidates generated `--prince-limit=N`
- Calculate length distribution from wordlist `--prince-wl-dist-len`
- Load only N words from input wordlist `--prince-wl-max=N`
- Permute case of first letter `--prince-case-permute`
- Show cracked passwords (if =left, then uncracked) `--show[=left]`
- Show information about hashes in a file (JSON) `--show=formats`
- Show lines that are not valid for selected format(s) `--show=invalid`
- Run tests and benchmarks for TIME seconds each (if TIME is explicitly 0, test w/o benchmark) `--test[=TIME]`
- Loop self tests forever `--stress-test[=TIME]`
- Run more thorough self-tests `--test-full=LEVEL`
- Used with --test for alternate benchmark w/o mask `--no-mask`
- Skip self tests `--skip-self-test`
- load this (these) user(s) only `--users=[-]LOGIN/UID[,...]` [Do not]
- Load users [not] of this (these) group(s) only `--groups=[-]GID[,...]`
- Memory-map infile (not available with case permute) `--prince-mmap`
- Just show total keypace that would be produced (disregarding skip and limit) `--prince-keyspace`
- "Subsets" mode `--subsets[=CHARSET]`
- The N first characters of "subsets" charset are the "required set" `--subsets-required=N`
- Minimum unique characters in subset `--subsets-min-diff=N`
- Maximum unique characters in subset (negative N is relative to word length) `--subsets-max-diff=[-]N`
- Prefer shorter candidates over smaller subsets `--subsets-prefer-short`
- Prefer smaller subsets over shorter candidates `--subsets-prefer-small`
- Make a charset FILE will be overwritten `--make-charset=FILE`
- Just output candidate passwords [cut at LENGTH] `--stdout[=LENGTH]`
- Give a new session the NAME `--session=NAME`
- Print status of a session [called NAME] `--status[=NAME]`
- Restore an interrupted session [called NAME] `--restore[=NAME]`
- Emit a status line whenever a password is cracked `--[no-]crack-status`

Converter

- 1password2john.py
- 722john.pl
- adxcsof2john.py
- aem2john.py
- aix2john.pl
- aix2john.py
- andotp2john.py
- androidbackup2john.py
- androidfde2john.py
- ansible2john.py
- apex2john.py
- applenotes2john.py
- aruba2john.py
- atmail2john.pl
- axcrypt2john.py
- bestcrypt2john.py
- bitcoin2john.py
- bitshares2john.py
- bitwarden2john.py
- bks2john.py
- blockchain2john.py
- cache2john.py
- cisco2john.pl
- codepage.pl
- crack2john.py
- cronjob
- dashlane2john.py
- deepsound2john.py
- diskcryptor2john.py
- dmg2john.py
- DPAPImk2john.py
- ecryptfs2john.py
- ejabberd2john.py
- electrum2john.py
- encfs2john.py
- enpass2john.py
- enpass5tojohn.py
- ethereum2john.py
- filezilla2john.py
- fuzz_option.pl
- geli2john.py
- genincstats.rb
- hccapx2john.py
- hextoraw.pl
- htdigest2john.py
- ibmsscanner2john.py
- ikescan2john.py
- ios7tojohn.pl
- itunes_backup2john.pl
- iwork2john.py
- kdcdump2john.py
- keychain2john.py
- keyring2john.py
- keystore2john.py
- kirbi2john.py
- known_hosts2john.py
- krb2john.py
- kwallet2john.py
- lastpass2john.py
- ldif2john.pl
- leet.pl
- libreoffice2john.py
- lion2john-alt.pl
- lion2john.pl
- lotus2john.py
- luks2john.py
- mac2john-alt.py
- mac2john.py
- mcafee_epo2john.py
- monero2john.py
- money2john.py
- mosquitto2john.py
- mozilla2john.py
- multibit2john.py
- neo2john.py
- netntlm.pl
- netscreen.py
- office2john.py
- openbsd_sofraid2john.py
- openssl2john.py
- padlock2john.py
- pass_gen.pl
- pcap2john.py
- pdf2john.pl
- pem2john.py
- pf2john.py
- pgpdisk2john.py
- pgpsda2john.py
- pgpwde2john.py
- potcheck.pl
- prosody2john.py
- pse2john.py
- ps_token2john.py
- pwsafe2john.py
- radius2john.pl
- radius2john.py
- restic2john.py
- rexgen2rules.pl
- rustack.pl
- sap2john.pl
- sense2john.py
- sha-dump.pl
- sha-test.pl
- signal2john.py
- sjpdump2john.py
- ssh2john.py
- sspr2john.py
- staroffice2john.py
- strip2john.py
- telegram2john.py
- tezos2john.py
- truecrypt2john.py
- unrule.pl
- vid2john.pl
- vmx2john.py
- zed2john.py

- `--format=[NAME][CLASS][...]` Force hash of type NAME. The supported formats can be seen with --list=formats and --list=subformats.
- `--subformat=FORMAT` Pick a benchmark format for --format=crypt
- `--tune=HOW` Tuning options (auto/report/N)
- `--reject-printable` Reject printable binaries
- `--regen-lost-salts=N` Brute force unknown salts
- `--pot=NAME` Pot file to use
- `--no-loader-dupecheck` Disable the dupe checking when loading hashes
- `--mkpc=N` Request a lower max. keys per crypt
- `--max-run-time=[-]N` Gracefully exit after this many seconds (if negative, reset timer on each crack)
- `--max-candidates=[-]N` Gracefully exit after this many candidates tried.
- `--log-stderr` Log to screen instead of file
- `--save-memory=LEVEL` Enable memory saving, at LEVEL 1-3
- `--node=MIN[-MAX]/TOTAL` This node's number range out of TOTAL count
- `--fork=N` Fork N processes
- `--costs=[-]C[M][,...]` Load salts with[out] cost value Cn [to Mn]. For tunable cost parameters
- `--salts=#M[-N]` Load M [to N] most populated salts
- `--salts=[-]COUNT[.MAX]` Load salts with[out] COUNT [to MAX] hashes
- `--shells=[-]SHELL[,...]` Load users with[out] this (these) shell(s) only
- `--progress-every=N` Emit a status line every N seconds