Password Generator

Generate a password locally using the browser’s cryptographic random source. Include each selected character type at least once, then securely shuffle the generated characters.

Formula: random index = uniform integer in [0, pool length - 1]

INPUTS AND EXAMPLE VALUES

Length: 16

Uppercase letters: selected

Lowercase letters: selected

Digits: selected

Symbols: selected

Exclude look-alike characters (I, l, 1, O, 0, o): not selected

CHECK THE DEFAULT EXAMPLE

Passwords are generated on your device with cryptographic randomness. No password is generated or saved in this PDF. Keep generated secrets in a password manager, not a worksheet.

LIMITS AND CONVENTIONS

Length must be at least the number of selected character types, and at most 128.

Use HTTPS or localhost. Store passwords in a password manager; no strength or breach-resistance guarantee is made.

The optional look-alike exclusion removes I, l, 1, O, 0 and o; selected character types still appear at least once.

METHOD AND SOURCES

https://azhanmh.com/guides/tools/password-generator

MDN - Crypto.getRandomValues: secure random values: https://developer.mozilla.org/en-US/docs/Web/API/Crypto/getRandomValues

Display precision is for reporting; keep unrounded values for later calculations. Verify units and conventions. This reference does not replace institution, employer or network rules.