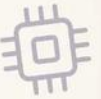


*the smallest pieces a program is built from, before a single line runs*



## Python is interpreted

- Python translates and runs one statement at a time, so a program needs no separate compile step before it runs
- this makes errors easy to trace, execution simply stops right at the line that failed
- the interpreter that ships with Python is the reference one, called CPython

## Interactive mode vs Script mode

### Interactive mode

- the triple greater-than prompt, type one statement, see its result right away
- great for testing a small snippet, nothing here is saved automatically

### Script mode

- statements written in a .py file, run all at once from top to bottom
- saved, reusable, and shareable, the normal way any real program is written

## The IDE, at a glance \*

### Editor window

where a .py file is written and saved

### Shell window

the interactive prompt, for quick one-line checks

### Run

executes the whole saved script in one go

