Programming Languages and their Uses

Bash	C++	Java	JavaScript	MATLAB	Python	R
Shell Scripting --- Procedural	*Application System* --- Object-oriented, functional, procedural	*General purpose programming* --- Object-oriented, functional, procedural	*Web development* --- Object-oriented, functional, procedural	*Domain-specific Numerical computing* --- Object-oriented, procedural	*Application Web Scripting AI Scientific computing* --- Object-oriented, functional, procedural	*Application Statistics* --- Object-oriented, functional, procedural

Object-oriented: Code in self-contained modules, which communicate.

Functional: Logical flow based on combinations of functions.

Procedural: Problems are broken down into simple components, and then solved using a set of procedures (functions).

https://en.wikipedia.org/wiki/Comparison_of_programming_languages

Some languages that L3 uses!

- **R**
  - Implements many methods for data handling and statistical analysis, comes with graphical software for producing high quality plots.
- **Python**
  - General purpose scripting language, access to a very large library of packages and frameworks, fast and easy to use.
- **JavaScript**
  - Integrates script execution into web browsers, creating interactive websites which can change on the fly with minimal effort (Compared to static websites which refresh every time you press a button). Known as the language of the browser.
- **WebPPL**
  - A probabilistic programming language; contains methods for easily writing statistical models, especially Bayesian ones.