Object-Oriented Programming

Learn to Code with Ruby

What is object-oriented programming?

- Ruby is an **object-oriented programming (OOP) language**. OOP describes a *category* of languages.

- The OOP paradigm views a program as a collection of objects that communicate with one another.

- **An object is a digital data structure**. It's a container that stores data and provides ways to access and manipulate that data.

- In Ruby, **everything is an object**.

Exercise

- Pick **3 real-life objects** around you.

- For each object, create two lists:
  - 5 attributes, which describe features about that object (a fact, a detail, a characteristic). Think nouns.
  - 5 methods, which describe what the object can do (a functionality, a behavior, an action). Think verbs.

Example

✔ **Attributes**

- Type: MacBook Pro
- Maker: Apple
- Year: 2020
- Color: Silver
- Keyboard Color; Black

✔ Methods

- Turn on
- Shut down
- Launch application
- Close application
- Create file