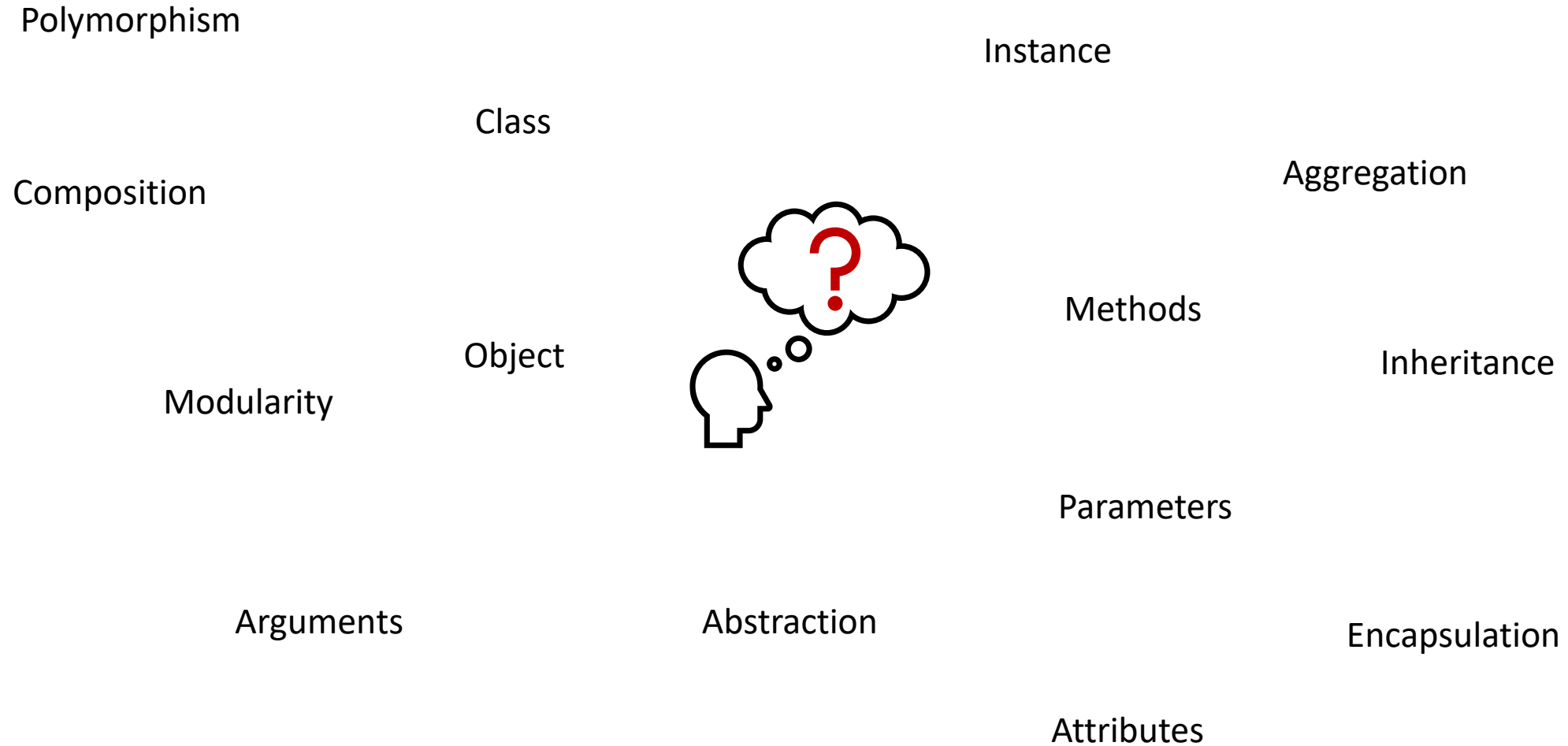


Object Oriented Programming (OOP)



OOP – not that complex!

Class (type): String
One Example (Instance): „Dog“
“The String Class is like an abstract template that we can use to work with any text data.”

- Everything is an **Object** in Python
- You have already used and worked with Objects/Classes:
 - **Strings** (“Dog”)
 - **Lists** ([1, 2, 3])
 - **Pandas DataFrames** (titanic dataset)
- Python allows you to create your **own Classes** to **solve Problems** and perform customized tasks and workflows with **efficient** and **reusable** code.
 - Class to **analyze Financial Instruments** (e.g. stocks)



Object Orientation – the human way of thinking

How to learn and master OOP:

- With simple and intuitive real-world examples
- start with the final Solution
- step by step