Python OOP: Object-Oriented Analysis and Design

Key Takeaways
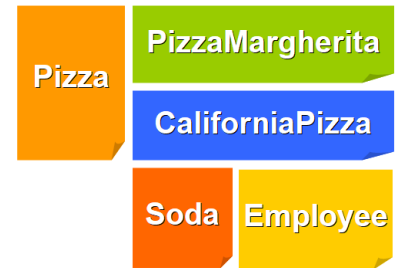
- **Object-Oriented Analysis & Design:**

  - **Purpose:**

    - Determine the necessary **classes**, their **methods**, and **attributes**.

    - Determine how the objects will **interact** in the program and the **relationships** between the different classes.

  - **Guidelines:**

    - **Nouns** – Classes

    - **Verbs** – Methods

    - **Adjectives or Nouns** – Attributes

      - Decide if they are class attributes or instance attributes based on the description:

        - ✓ If the value is shared by all instances of the class, then it's a class attribute.

        - ✓ If the instances of the class have different values, then it's an instance attribute.