

# Prototype inheritance

- Create a prototype-based inheritance hierarchy in JavaScript. Define a base prototype and a derived prototype, then demonstrate how to use and override methods in the derived prototype.

## Steps:

- 1. Define the Base Prototype (Animal):**
  - Create a constructor function for Animal with properties like name and age.
  - Add a method speak to the Animal prototype.
- 2. Define the Derived Prototype (Dog):**
  - Create a constructor function for Dog that inherits from Animal.
  - Add a method bark to the Dog prototype.
  - Override the speak method in the Dog prototype to include additional behavior.
- 3. Create Instances and Demonstrate Inheritance:**
  - Create instances of Animal and Dog.
  - Call methods on these instances to show how inheritance works and how methods are overridden.