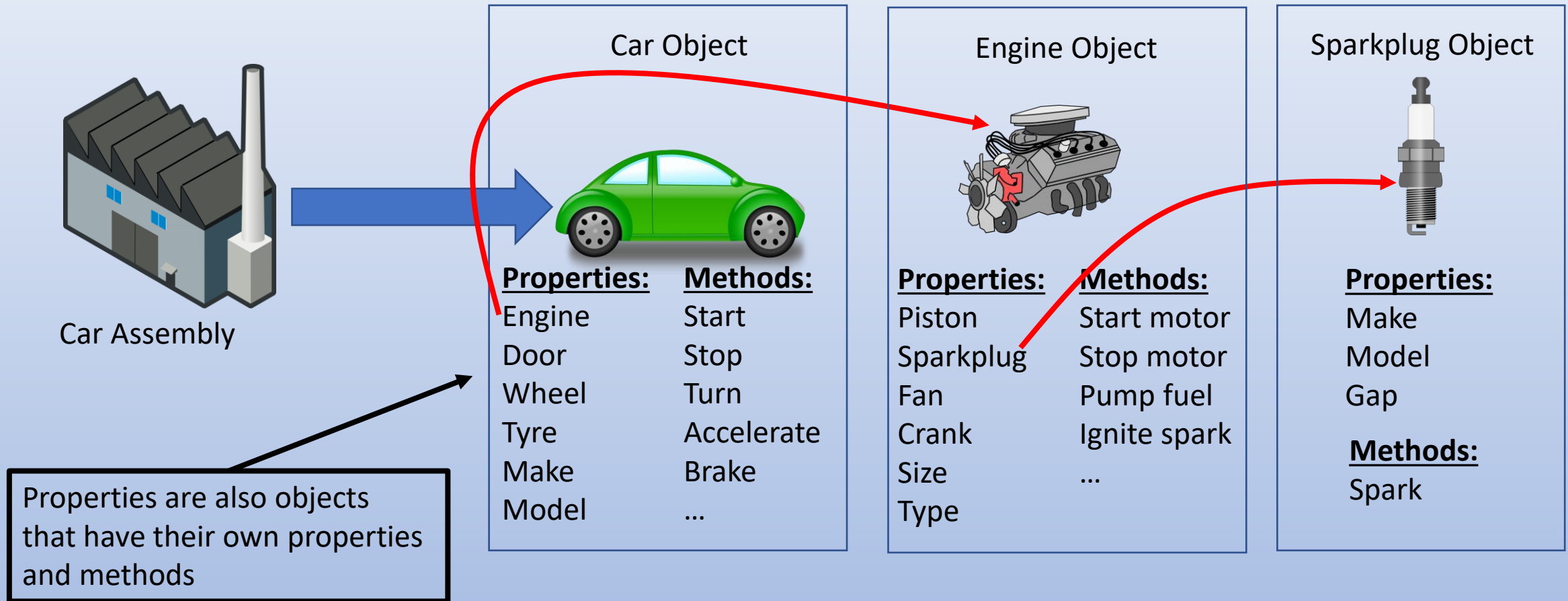# PowerShell Objects

Pictorial description of
Objects, Properties and Methods
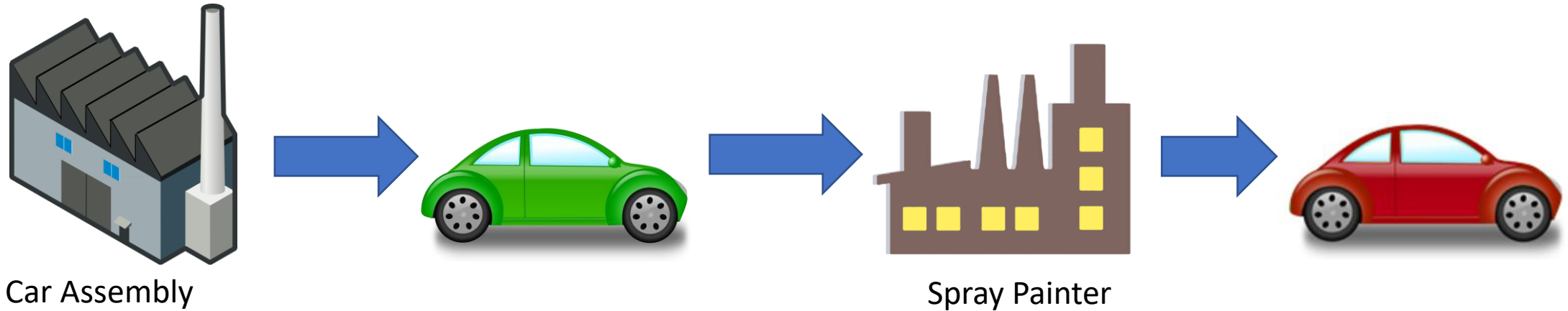
Objects contain Properties and Methods

Car Assembly

Properties are also objects that have their own properties and methods

Car Object

Properties:
Engine
Door
Wheel
Tyre
Make
Model

Methods:
Start
Stop
Turn
Accelerate
Brake
…

Engine Object

Properties:
Piston
Sparkplug
Fan
Crank
Size
Type

Methods:
Start motor
Stop motor
Pump fuel
Ignite spark
…

Sparkplug Object

Properties:
Make
Model
Gap
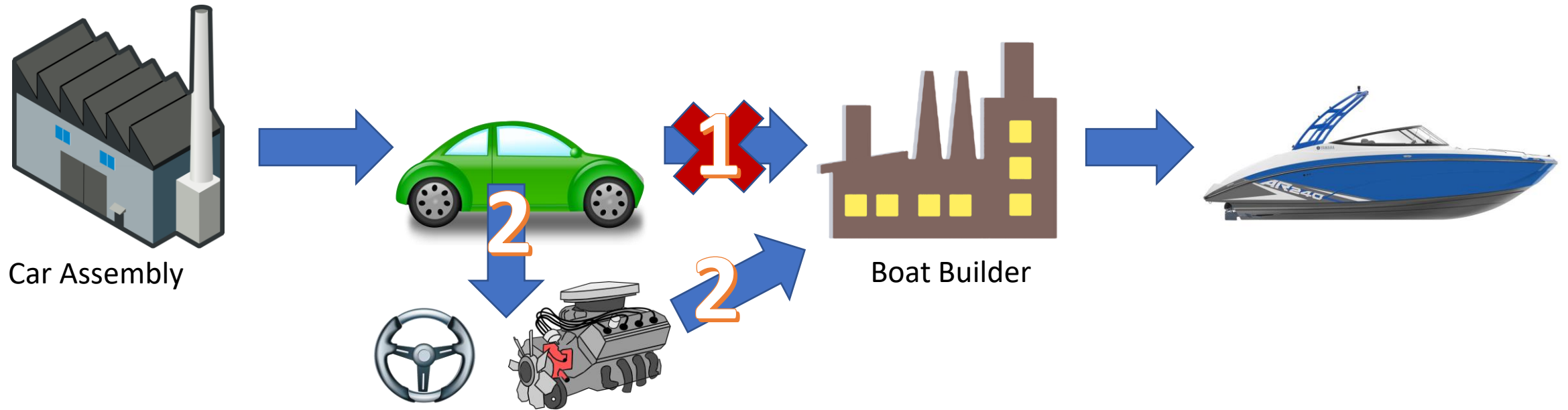
Methods:
Spark

Pipelines in PowerShell

Pictorial Explanation
ByValue vs ByPropertyName

ByValue Pipeline

The output of the Car Assembly Plant (Entire Car) can be used by the Spay Painter
Similar to ByValue Pipe lines

ByPropertyName Pipeline

1. The output of the Car Assembly Plant (Entire Car) cannot be used by the boat builder
2. But, if we chopped up the car we could use the engine and steering wheel to help build the boat
Similar to ByPropertyName Pipelines