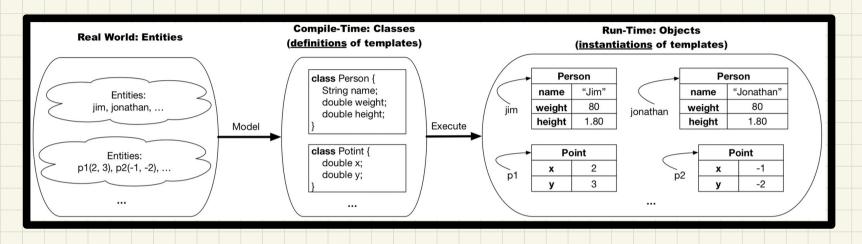


## Observe-Model-Execute Process







Entities: Attributes: Changes: Inquiries: Template:

Entities:

Attributes:

Changes:

Inquiries:

Template:

+ calling constructor to create objects

\* get attribute values

\* call accessors or mutators

+ using the "dot notation", with the right contexts, to:

# Modelling: from Entities to Classes

#### Identify Critical Nouns & Verbs

## Example 1

Points on a two-dimensional plane are identified by their signed distances from the X- and Y-axises. A point may move arbitrarily towards any direction on the plane. Given two points, we are often interested in knowing the distance between them.

## Example 2

A person is a being, such as a human, that has certain attributes and behaviour constituting personhood: a person ages and grows on their heights and weights.

O Thinking: Templates vs. Instances	<u>Slide 9 - 1</u>
Templates	
Common	
Attribute <u>Definitions</u>	
(Types)	
Common	
Behaviour Definitions	
(Headers/API)	
Instance-Specific	
Attribute <u>Values</u>	
Instance-Specific	
Behaviour Occurrence	