

Lecture

Object-Oriented Analysis Guidelines





OO Analysis

- ◆ **Classes = Nouns**
- ◆ **Attributes = Adjectives (or nouns)**
- ◆ **Methods = Verbs**



OO Analysis

Classes = Nouns



OO Analysis

Classes = Nouns

Animal



OO Analysis

Classes = Nouns

Animal

Person



OO Analysis

Classes = Nouns

Animal

Person

Truck



OO Analysis

Classes = Nouns

Animal

Person

Truck

Address



OO Analysis

Classes = Nouns

Animal

Person

Truck

Address

Account



OO Analysis

Classes = Nouns

Animal

Person

Truck

Address

Account

Car





OO Analysis

Classes = Nouns

Animal

Person

Truck

Address

Account

Car

Client





OO Analysis

Classes = Nouns

Animal

Person

Truck

Address

Account

Car

Client

Date





OO Analysis

Classes = Nouns

Animal

Person

Truck

Address

Account

Car

Client

Date

Task



OO Analysis

Some could be nouns

Attributes = Adjectives



OO Analysis

Some could be nouns

Attributes = Adjectives

Color



OO Analysis

Some could be nouns

Attributes = Adjectives

Color

Diagnosis



OO Analysis

Some could be nouns

Attributes = Adjectives

Color

Diagnosis

X Coordinate





OO Analysis

Some could be nouns

Attributes = Adjectives

Color

Diagnosis

X Coordinate

Speed



OO Analysis

Some could be nouns

Attributes = Adjectives

Color

Diagnosis

X Coordinate

Speed

Lives





OO Analysis

Some could be nouns

Attributes = Adjectives

Color

Diagnosis

X Coordinate

Speed

Lives

Street





OO Analysis

Some could be nouns

Attributes = Adjectives

Color

Diagnosis

X Coordinate

Speed

Lives

Street

Size





OO Analysis

Some could be nouns

Attributes = Adjectives

Color

Diagnosis

X Coordinate

Speed

Lives

Street

Size

Weight





OO Analysis

Some could be nouns

Attributes = Adjectives

Color

Diagnosis

X Coordinate

Speed

Lives

Street

Size

Weight

Name





Attributes

- **Class Attributes**
 - Shared across instances.
- **Instance Attributes**
 - Independent for each instance.



OO Analysis

Methods = Verbs



OO Analysis

Methods = Verbs

Move



OO Analysis

Methods = Verbs

Move

Display



OO Analysis

Methods = Verbs

Move

Display

Register





OO Analysis

Methods = Verbs

Move

Display

Register

Sell



OO Analysis

Methods = Verbs

Move

Display

Register

Sell

Remove



OO Analysis

Methods = Verbs

Move

Display

Register

Sell

Remove

Calculate



OO Analysis

Methods = Verbs

Move

Display

Register

Sell

Remove

Calculate

Find





OO Analysis

Methods = Verbs

Move

Display

Register

Sell

Remove

Calculate

Find

Concatenate



OO Analysis

Methods = Verbs

Move

Display

Register

Sell

Remove

Calculate

Find

Concatenate

Reverse



OO Analysis

- ◆ **Classes = Nouns**
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Scenario

