

Lecture

Define Instance Attributes

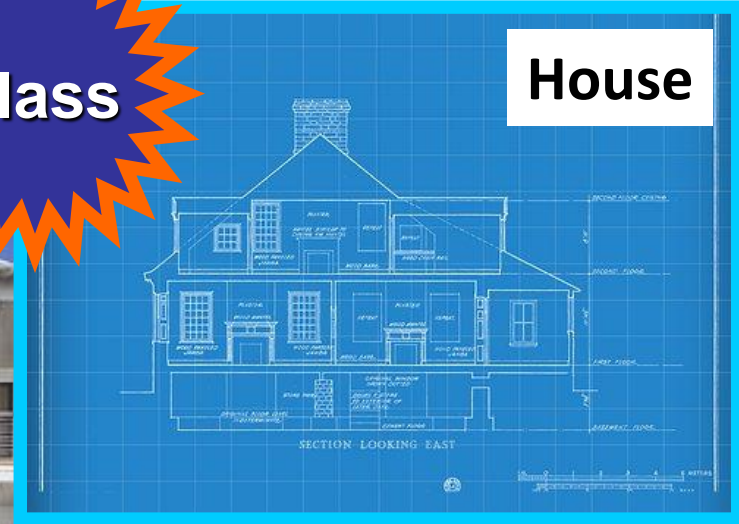




Instance Attributes

Class

House





Instance Attributes

\$50k



Instance 1

\$100k



Instance 2

\$150k



Instance 3

Price



Instance Attributes

```
class House:
```

```
    def __init__(self, price):  
        self.price = price
```



Instance Attributes

Keyword

```
class House:
```

```
    def __init__(self, price):  
        self.price = price
```



Instance Attributes

Class Name

```
class House:
```

```
    def __init__(self, price):  
        self.price = price
```



Instance Attributes



```
class House:
```

```
    def __init__(self, price):  
        self.price = price
```



Instance Attributes

```
class House:
```

Constructor

```
    def __init__(self, price):  
        self.price = price
```




Instance Attributes

- ◆ **`__init__()`**:
 - ◆ Reserved Method.
 - ◆ Known as the class “constructor”.
 - ◆ It’s executed when an instance is created.
 - ◆ Initializes the instance attributes.

```
class House:
```

Constructor

```
def __init__(self, price):  
    self.price = price
```





Instance Attributes

```
class House:
```

Keyword

```
    def __init__(self, price):  
        self.price = price
```



Instance Attributes

```
class House:
```

Name

```
    def __init__(self, price):  
        self.price = price
```



Instance Attributes

```
class House:
```

Two Underscores

```
    def __init__(self, price):  
        self.price = price
```



Instance Attributes

```
class House:
```

Parameters

```
    def __init__(self, price):  
        self.price = price
```



Instance Attributes

```
class House:
```

Instance

```
    def __init__(self, price):  
        self.price = price
```



Instance Attributes

```
class House:
```

```
    def __init__(self, price):  
        self.price = price
```

Parameter(s)



Instance Attributes

\$50k



Instance 1

\$100k



Instance 2

\$150k



Instance 3

Price



Instance Attributes

```
class House:
```

```
    def __init__(self, price):  
        self.price = price
```

Customized when
you create an
instance

Parameters

price



Instance Attributes

```
class House:  
  
    def __init__(self, price):  
        self.price = price
```

Create instance attribute and assign a value



Instance Attributes

```
class House:
```

```
    def __init__(self, price):  
        self.price = price
```



Instance Attributes

```
class House:
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```
    def __init__(self, price):  
        self.price = price
```



Instance Attributes

```
class House:
```


```
    def __init__(self, price):  
        self.price = price
```

Instance



Instance Attributes

```
class House:  
  
    def __init__(self, price):  
        self.price = price
```

A red arrow points upwards from the bottom center of the slide to the `self.price` attribute assignment in the `__init__` method.



Instance Attributes

```
class House:  
  
    def __init__(self, price):  
        self.price = price
```

Name of the Instance Attribute



Instance Attributes





Instance Attributes

```
class House:
```


```
    def __init__(self, price):  
        self.price = price
```





Instance Attributes

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class House:
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    def __init__(self, price):  
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Instance Attributes

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class House:
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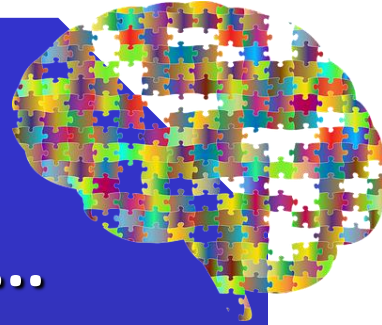
Instance Attributes

```
class House:

    def __init__(self, price, square_feet, num_bedrooms, num_bathrooms):
        self.price = price
        self.square_feet = square_feet
        self.num_bedrooms = num_bedrooms
        self.num_bathrooms = num_bathrooms
```

Let's analyze...

Instance Attributes





Instance Attributes

```
class House:

    def __init__(self, price, square_feet, num_bedrooms, num_bathrooms):
        self.price = price
        self.square_feet = square_feet
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Instance Attributes

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Instance Attributes

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Instance Attributes

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Instance Attributes

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```



Common Mistakes

