

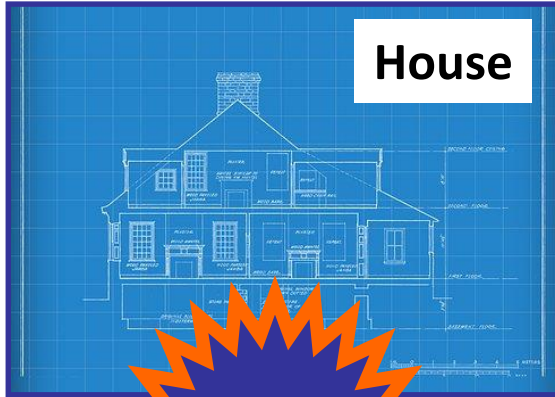
Lecture

Create Instances





Create Instances

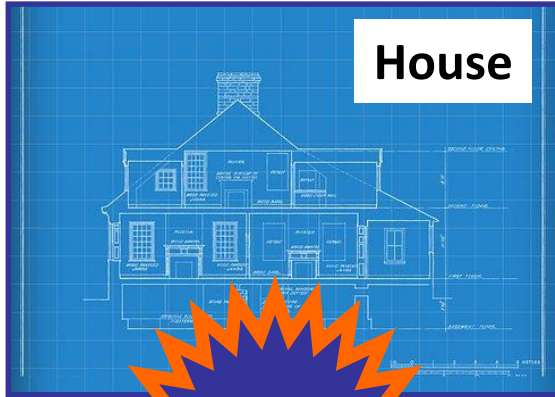


Instance





Create Instances



Class



Instance





Create Instances

```
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
```



Create Instances

```
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
```





Create Instances

```
my_house = House(50000, 2100, 4, 3)
```



Create Instances

```
my_house = House(50000, 2100, 4, 3)
```

Variable that you
can use to refer to
the instance



Create Instances

```
my_house = House(50000, 2100, 4, 3)
```





Create Instances

```
my_house = House(50000, 2100, 4, 3)
```

Class Name



Create Instances

```
my_house = House(50000, 2100, 4, 3)
```

Two red arrows point to the opening parenthesis '(' and the closing parenthesis ')' of the function call, highlighting the arguments passed to the constructor.



Create Instances

```
my_house = House(50000, 2100, 4, 3)
```

Arguments



Create Instances

```
my_house = House(50000, 2100, 4, 3)
```

Arguments



Create Instances

?

```
my_house = House(50000, 2100, 4, 3)
```

Arguments



Create Instances

```
class House:  
    def __init__(self, price, square_feet, num_bedrooms, num_bathrooms):
```

```
my_house = House(50000, 2100, 4, 3)
```

A diagram consisting of four colored arrows pointing from the class definition to the instance creation. A green arrow points from 'price' to '50000'. An orange arrow points from 'square_feet' to '2100'. A light blue arrow points from 'num_bedrooms' to '4'. A yellow arrow points from 'num_bathrooms' to '3'.



Create Instances

```
class House:  
    def __init__(self, price, square_feet, num_bedrooms, num_bathrooms):
```

```
my_house = House(50000, 2100, 4, 3)
```

A diagram consisting of four colored arrows pointing from the class definition to the instance creation. A green arrow points from 'price' to '50000'. An orange arrow points from 'square_feet' to '2100'. A light blue arrow points from 'num_bedrooms' to '4'. A yellow arrow points from 'num_bathrooms' to '3'.

In the same order



Create Instances

Mention that self is passed automatically
When you create an instance with a reference to
That newly created instance

```
class House:  
    def __init__(self, price, square_feet, num_bedrooms, num_bathrooms):
```

```
my_house = House(50000, 2100, 4, 3)
```



self is “skipped”



Create Instances

```
<Variable> = <ClassName>(<Arguments>)
```



Now... An Example

