Lecture

Default Arguments

Default Arguments

```
class Patient:

    def __init__(self, name, age, allergies, num_children):
        self.name = name
        self.age = age
        self.allergies = allergies
        self.num_children = num_children
```

Default Arguments

All arguments are required

```
class Patient:

    def __init__(self, name, age, allergies, num_children):
        self.name = name
        self.age = age
        self.allergies = allergies
        self.num_children = num_children
```

Default Arguments

No Allergies?

```
class Patient:

    def __init__(self, name, age, allergies, num_children):
        self.name = name
        self.age = age
        self.allergies = allergies
        self.num_children = num_children
```

Default Arguments

No Children?

```
class Patient:

    def __init__(self, name, age, allergies, num_children):
        self.name = name
        self.age = age
        self.allergies = allergies
        self.num_children = num_children
```

Default Values

You can omit the arguments when you create an instance

Default Arguments

```
class Patient:

    def __init__(self, name, age, allergies=None, num_children=0):
        self.name = name
        self.age = age
        self.allergies = allergies
        self.num_children = num_children
```

Default Arguments

```
allergies=None, num_children=0
```

Default Arguments

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Default Arguments

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allergies=None, num_children=0
```

Default Arguments

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allergies=None, num_children=0
```

Default Arguments

```
class Patient:
    def __init__(self, name, age, allergies=None, num_children=0):
```

```
patient1 = Patient("Lulu", 35, ["Peanut", "Chocolate"], 2)

patient2 = Patient("Gino", 10, ["Peanut"])

patient3 = Patient("Gerard", 40)
```

Default Arguments

```
class Patient:
    def __init__(self, name, age, allergies=None, num_children=0):
```

```
patient1 = Patient("Lulu", 35, ["Peanut", "Chocolate"], 2)
```

```
patient2 = Patient("Gino", 10, ["Peanut"])

patient3 = Patient("Gerard", 40)
```

Default Arguments

```
class Patient:
    def __init__(self, name, age, allergies=None, num_children=0):
```

```
patient1 = Patient("Lulu", 35, ["Peanut", "Chocolate"], 2)
patient2 = Patient("Gino", 10, ["Peanut"])
patient3 = Patient("Gerard", 40)
```

Default Arguments

```
class Patient:
    def __init__(self, name, age, allergies=None, num_children=0):
```

```
patient1 = Patient("Lulu", 35, ["Peanut", "Chocolate"], 2)

patient2 = Patient("Gino", 10, ["Peanut"])

patient3 = Patient("Gerard", 40)
```

Default Arguments

No Spaces

```
allergies=None
```

PEP 8

Default Arguments

They have to be
at the end of the list

```
class Patient:

    def __init__(self, name, age, allergies=None, num_children=0):
        self.name = name
        self.age = age
        self.allergies = allergies
        self.num_children = num_children
```

Default Arguments

```
class Patient:
    def __init__(self, name, age, allergies=None, num_children=0):
```

```
patient4 = Patient("Lola", 46, num_children=2)
```

Time to Practice