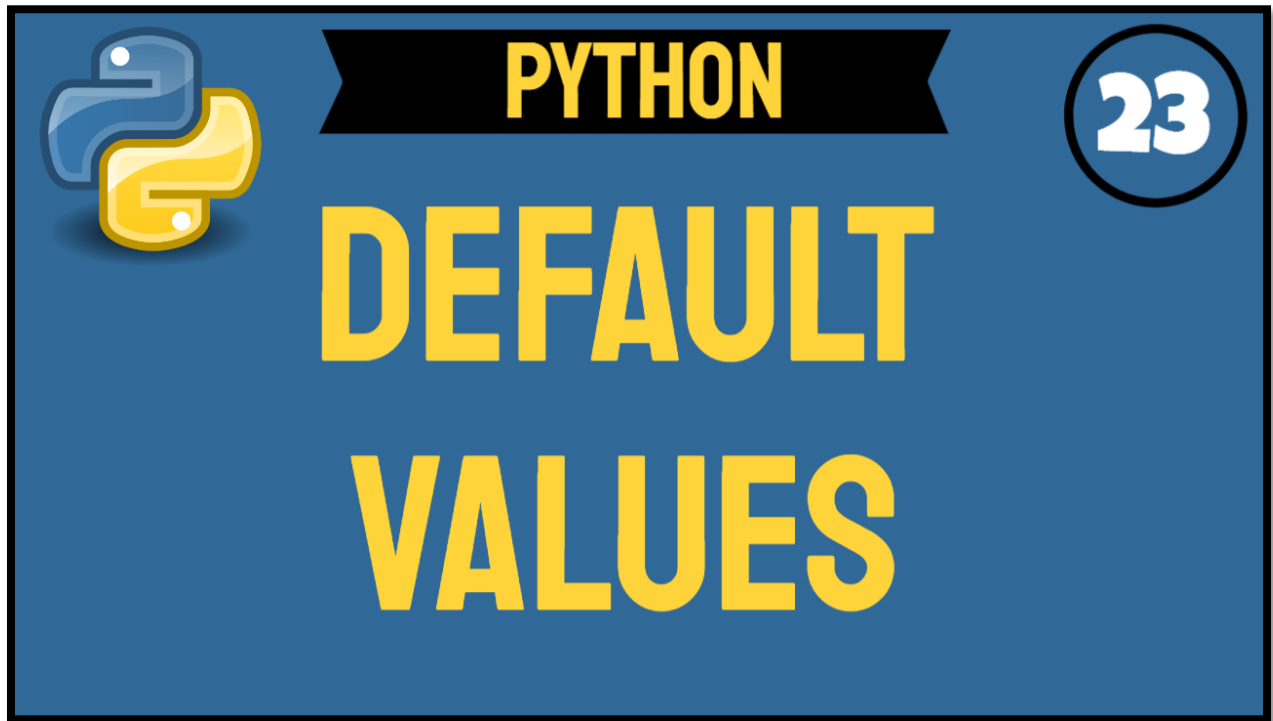


Python Default Values



Python Video = <https://youtu.be/MxZGMHU6V9o>

Default Value & Keyword Arguments

In this session, we are going to focus on Default Values for Python. It allows us to define a function with a default value for each parameter.

We are required to have an argument if the function has a parameter unless we have a default value. Right now, we have 2 parameters (name, age) and 2 arguments (James, 34).

```
def greet_the_user(name, age):  
greet_the_user('James', '34')
```

If I remove the age 34 as the argument, the parenthesis has a brown background with a note that says “Parameter 'age' unfilled”. It will not be a problem when adding a default value to the age parameter. age='38', and the brown background goes away.

```
def greet_the_user(name, age='38'):
    greet_the_user('James')
```

Our program will use the default value when we do not provide an argument. Run and the console shows “Are you 38 years old”

```
Start At The Top!!!
    Hello James, how are you?
    Are you 38 years old
    This Is A Python Function Tutorial
Stop At The Bottom!!!
```

The program provides a warning message if we use the same default value and argument value. For example, if I write name='James'. The argument has a line that says “Argument equals to the default parameter value”. It’s just a warning so if I run this program. It will not show an error. Look what happens when I add '34' back as the argument then remove the default value age='38'. We see an error for the parameter and it says “non-default parameter follows default parameter”.

```
def greet_the_user(name='James', age):
    """
    non-default parameter follows default parameter

greet_the_user('James', '34')
```

To fix this problem age must have a default value if name has a default value. We are not allowed to have a parameter without a default value following a parameter with a default value. However, it’s not a problem if I make age='38' then remove name='James' as the default value. Run and the console shows James as the name and 34 as the age.

```
def greet_the_user(name, age='38'):
```

```
Start At The Top!!!
```

```
Hello James, how are you?
```

```
Are you 34 years old
```

```
This Is A Python Function Tutorial
```

```
Stop At The Bottom!!!
```

The program uses our argument value when we have an argument and default value. That's why we see 34 and not 38.

Let's add 'John' as the default value then remove both arguments 'James' and '34'. Notice, we do not have an error. Run and the console shows both default values "John and 38".

```
def greet_the_user(name='John', age='38'):
```

```
Start At The Top!!!
```

```
Hello John, how are you?
```

```
Are you 38 years old
```

```
This Is A Python Function Tutorial
```

```
Stop At The Bottom!!!
```

Contact Info

- ✓ Email Rex.Jones@Test4Success.org
- ✓ YouTube <https://www.youtube.com/c/RexJonesII/videos>
- ✓ Facebook <https://facebook.com/JonesRexII>
- ✓ Twitter <https://twitter.com/RexJonesII>
- ✓ GitHub <https://github.com/RexJonesII/Free-Videos>
- ✓ LinkedIn <https://www.linkedin.com/in/rexjones34/>