



AIBridge

Lecture 3

Lecture Outline

What is a function?

Built-ins

Importing

Function defining

What is a function?

Input

Function

What is a function?

print()

"Hello world!"

Print

Lecture Outline

What is a function?

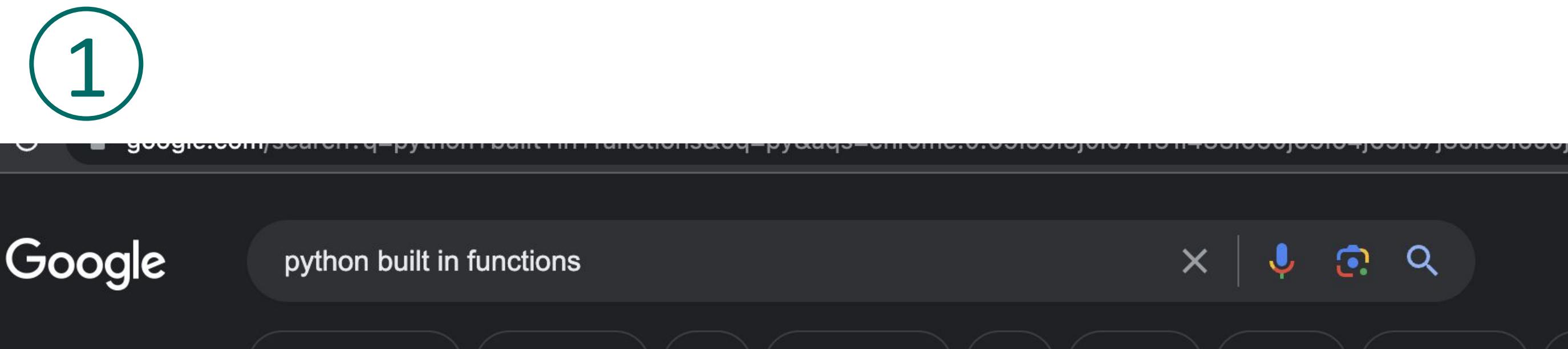
Built-ins

Importing

Function defining

Built-ins

<https://docs.python.org/3/library/functions.html>



A screenshot of the Python 3.11.4 documentation page for Built-in Functions. The page has a dark background. At the top, it shows the Python logo, the word "Python", the URL "https://docs.python.org", and the title "Built-in Functions – Python 3.11.4 documentation". Below the title, there is a list of built-in functions, each with a small icon and a brief description. Some of the functions listed include `abs()`, `aiter()`, `all()`, `bytearray()`, `bytes()`, and `dict()`.

Python
https://docs.python.org › library › functions

[Built-in Functions – Python 3.11.4 documentation](#)

Built-in Functions · `abs(x)` · Return the absolute value of a number. · `aiter(async_iterable)` ·
Return an asynchronous iterator for an asynchronous iterable. · `all(...)`
`bytearray()` · `bytes()` · `dict()`

Lecture Outline

What is a function?

Built-ins

Importing

Function defining

Importing

Module

Python

Burp

Importing

```
import sklearn  
from sklearn import linear_model  
import sklearn as skl
```

Lecture Outline

What is a function?

Built-ins

Importing

Function defining

Function defining

Arguments passed



```
def function_name(arg1, arg2, ...):  
    # do stuff here
```

Function defining return

Arguments passed



```
def function_name(arg1, arg2, ...):  
    # do stuff here  
    return data
```

Function defining return

```
n=
```

```
def factorial(n):  
    total = 1  
    for i in range(1, n+1):  
        total *= i  
    return total  
(=120)
```

```
# some code later  
factorial(5) →
```

Function defining return

```
def factorial(n):  
    total = 1  
    for i in range(1, n+1):  
        total *= i  
    return total  
(=120)
```

```
# some code later  
factorial(n=5) →
```

An alternative...

Function defining Default

Assumes default



```
def factorial(n=6):  
    total = 1  
    for i in range(1, n+1):  
        total *= i  
    return total  
(=720)
```

```
# some code later  
factorial() →
```