



ЛЕКЦИЯ 8

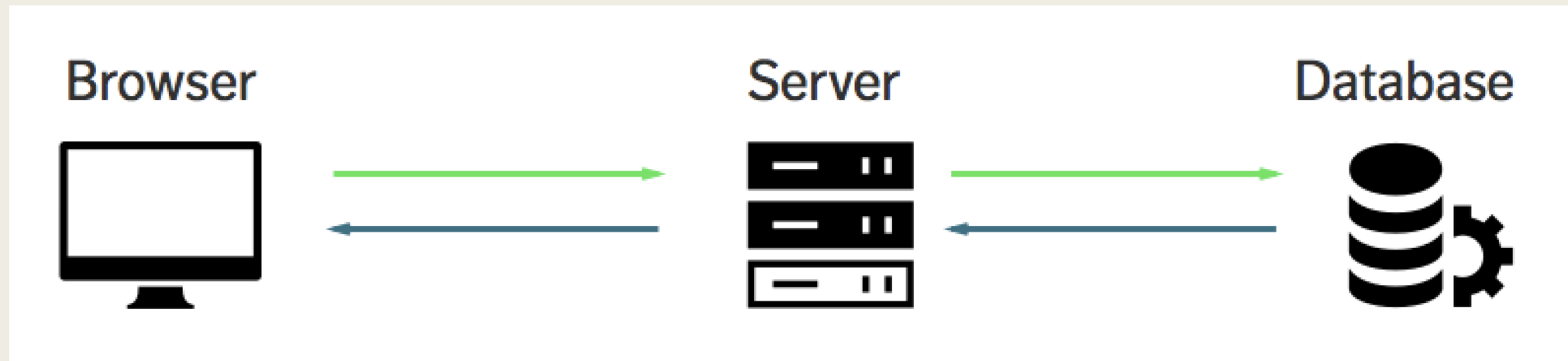
Немного про Python



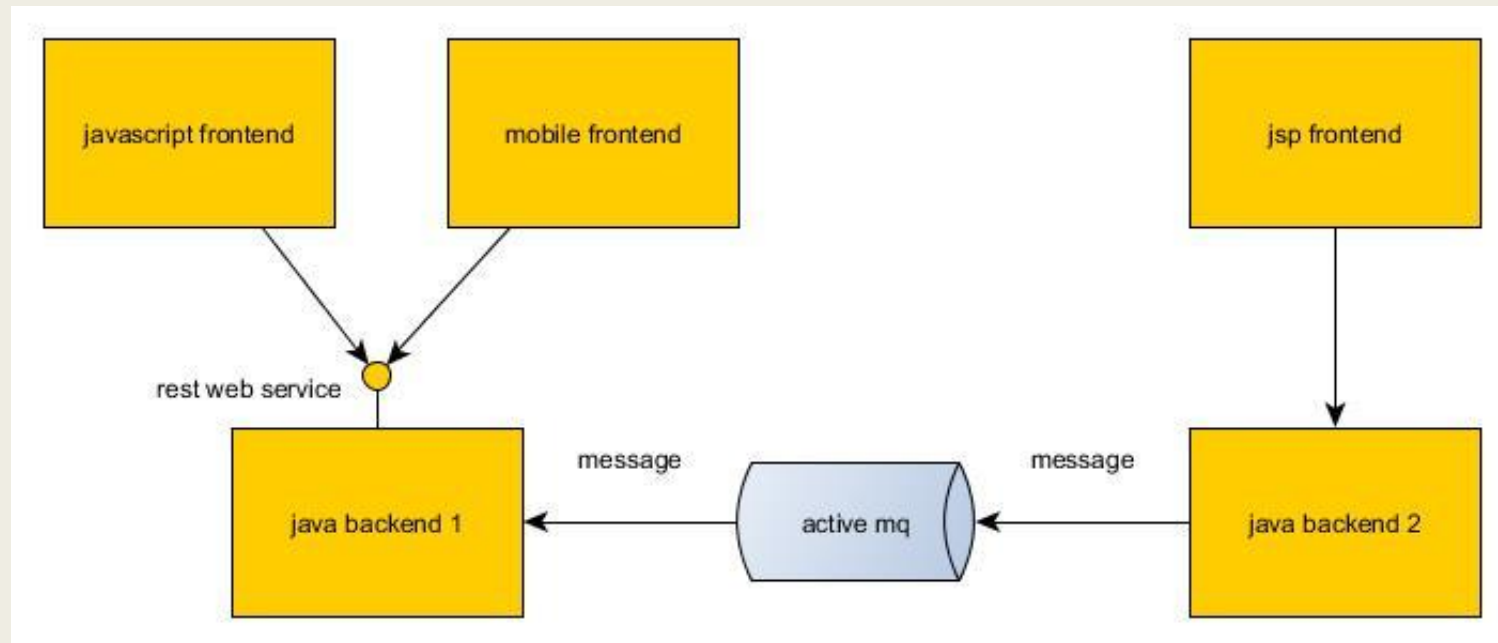
Способы получения данных

- Web-crawler (парсинг)
- Файлы
- API

Frontend / Backend



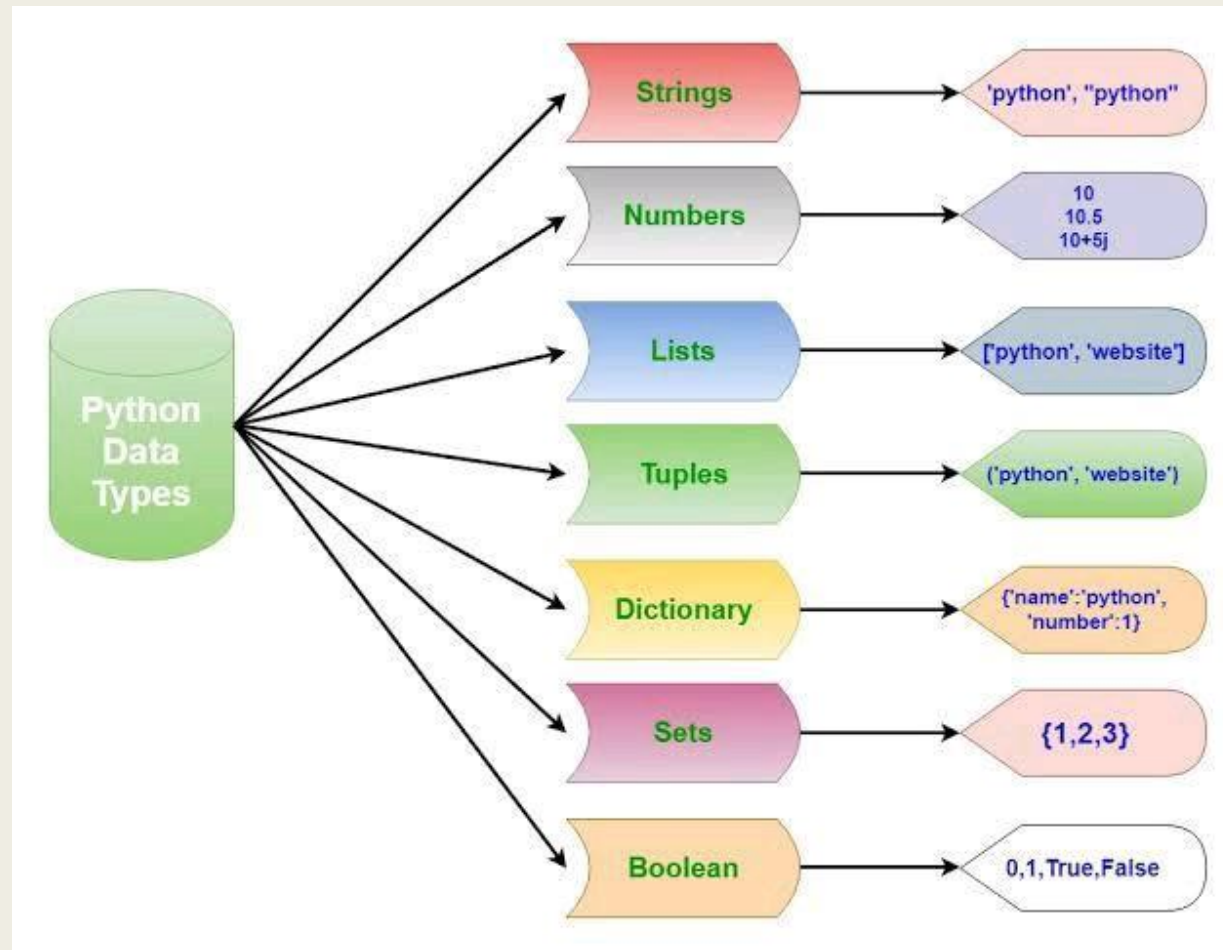
Frontend / Backend



Python

- Понятный и простой синтаксис
- Отличный вариант для написания скриптов
- Легко проверять гипотезы
- Много различных библиотек, легко ставить библиотеки

Типы данных



Типы данных

Name	Type	Description
Integers	int	Whole numbers, such as: 3 300 200
Floating point	float	Numbers with a decimal point: 2.3 4.6 100.0
Strings	str	Ordered sequence of characters: "hello" 'Sammy' "2000" "楽しい"
Lists	list	Ordered sequence of objects: [10,"hello",200.3]
Dictionaries	dict	Unordered Key:Value pairs: {"mykey" : "value" , "name" : "Frankie"}
Tuples	tup	Ordered immutable sequence of objects: (10,"hello",200.3)
Sets	set	Unordered collection of unique objects: {"a","b"}
Booleans	bool	Logical value indicating True or False

IF

The image shows a PyCharm IDE window titled "BeginnersBook [~/PycharmProjects/BeginnersBook] - .../PythonExample.py [Beginne...". The editor displays a Python script in "PythonExample.py" with the following code:

```
1 num = 1122
2 if 9 < num < 99:
3     print("Two digit number")
4 elif 99 < num < 999:
5     print("Three digit number")
6 elif 999 < num < 9999:
7     print("Four digit number")
8 else:
9     print("number is <= 9 or >= 9999")
10
```

The script is executed, and the output is shown in the "Run" panel:

```
Run PythonExample
Four digit number
Process finished with exit code 0
```

The status bar at the bottom indicates the file encoding is UTF-8 and the line ending is LF.

Цикл

```
import time
import datetime

for i in range(10):
    now = datetime.datetime.now()
    date_time = now.strftime("%d/%m/%Y %H:%M:%S")
    print(date_time)
    time.sleep(60)
```

```
01/07/2020 12:28:00
01/07/2020 12:29:00
01/07/2020 12:30:00
01/07/2020 12:31:00
01/07/2020 12:32:00
01/07/2020 12:33:00
01/07/2020 12:34:00
01/07/2020 12:35:00
01/07/2020 12:36:00
01/07/2020 12:37:00
```