

JSON

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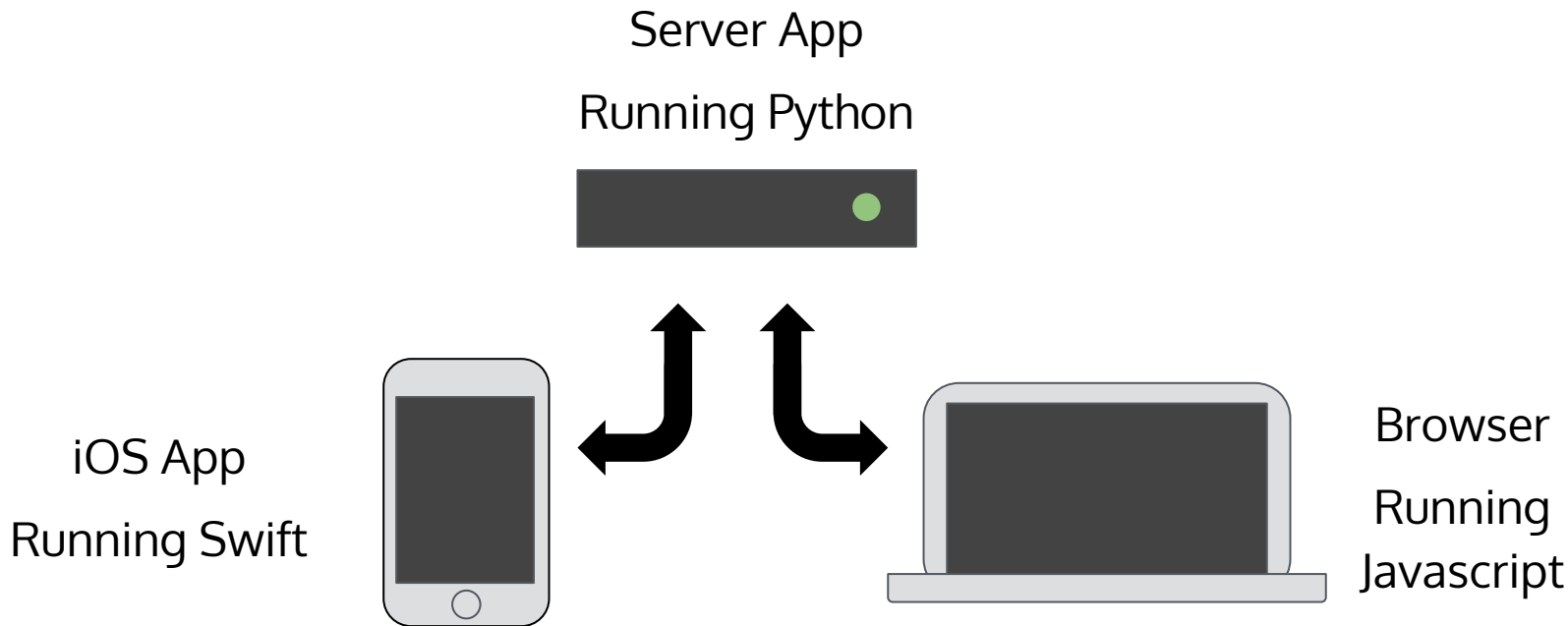
JSON

LEARNING OBJECTIVES

- + Describe JSON's role in networking
- + Read JSON
- + Write JSON

JSON

HETEROGENEOUS NETWORKING



JSON

JSON TO THE RESCUE!

JSON is a standard for organizing data.

It's kind of like a little language.

```
{ "username" : "Kenneth", "age" : 1000 }
```

When you have two different apps running in different languages, having a standard is useful for sending large amounts of organized information.

JSON

JSON SYNTAX

JSON records values and collections much like how Swift uses objects and collections.

In fact, the syntax in JSON should look pretty familiar!

Remember: these aren't full objects with types, properties or methods. They're just pieces of information written in a recognizable way.

Array	[]
Object	{ : }
String	" "
Bool	true
Int	10
Double	10.01
Null	null

JSON

JSON SYNTAX

JSON data is linear, like a string, so you can write it like a string:

```
{ "username" : "DJTanner", "age" : 16 }
```

To make it more readable by humans, JSON is often rendered with indentation:

```
{  
    "username" : "DJTanner",  
    "age" : 16  
}
```

Array	[]
Object	{ : }
String	" "
Bool	true
Int	10
Double	10.01
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JSON

JSON SYNTAX

Practice:

- 1) Write a JSON array that has two strings and two doubles in it.
- 2) Write a JSON object that has three key-value pairs. The keys should be strings. One value should be a string and the other two should be integers.
- 3) Write a JSON array of dictionaries with one key-value pair each. The values should be booleans.

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Object	{ : }
String	" "
Bool	true
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Double	10.01
Null	null