



Functional Programming for Data Processing

Data Boot Camp

Lesson 14.2



Class Objectives

By the end of this lesson, you will be able to:



Apply map and filter to parse data.



Create and use arrow functions to simplify code.



Use `filter()` and arrow functions to manipulate and filter datasets.



Use ES6 JavaScript methods.



Instructor Demonstration

Map Method & Arrow Functions



What is the `map()` method?

map() method

A method that:



Creates a new array containing the results of calling a function for every element array.



Calls the provided function in order, once for each element in an array.

A large black rectangular box with the text ".map()" written in white, centered within it.

.map()



What are arrow functions?

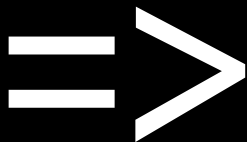
Arrow Functions



The arrow function is an alternate way to write functions in JavaScript.



It was introduced in ES6 and allows us to write shorter functions syntax.



Questions?





Activity: Mapping

In this activity, you will create arrays using the `map` function of names with the given heroine dataset.

Suggested Time:

15 minutes



Time's Up! Let's Review.



Activity: Mapping with Plotly

In this activity, you will create an array of Greek god search results using the `map` function and Plotly with the data.js dataset.

Suggested Time:

15 minutes



Time's Up! Let's Review.

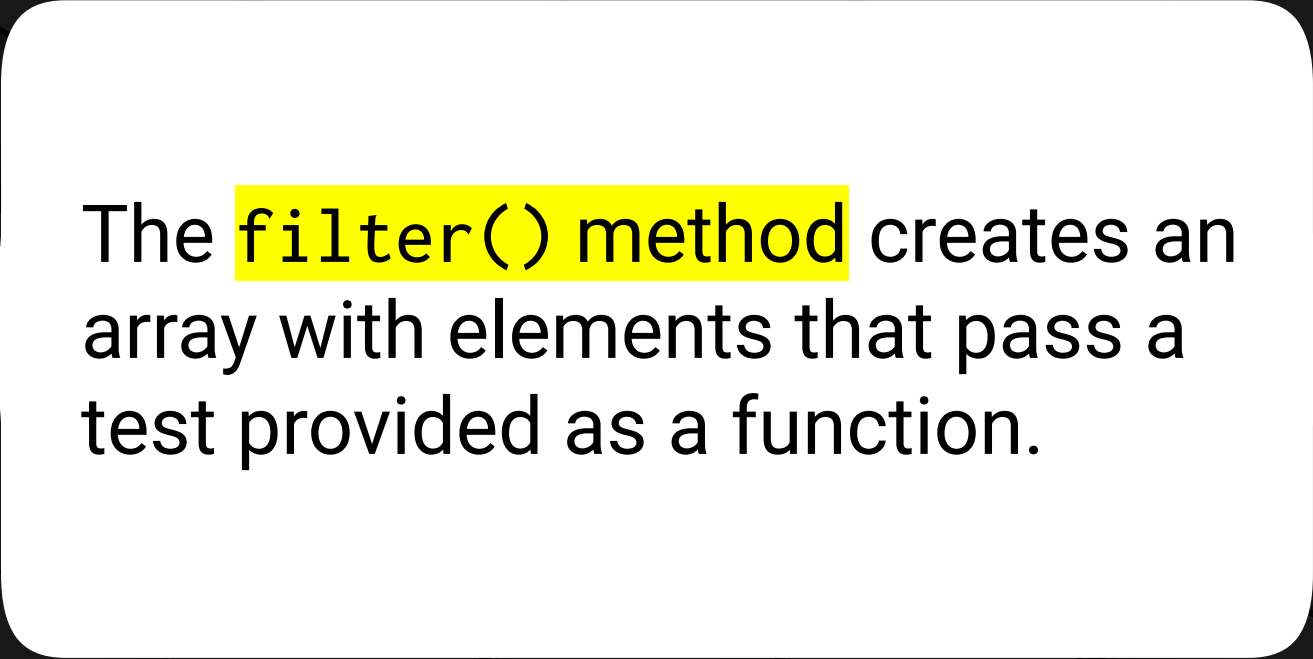


Instructor Demonstration

Filter Method



What is the `filter()` method?



The `filter()` method creates an array with elements that pass a test provided as a function.



Activity: Filtering

In this activity, you will create a custom function using `filter()` to return the players who made the team and count them.

Suggested Time:

15 Minutes



Time's Up! Let's Review.



Activity: Filtering with Plotly

In this activity, you will create an array of popular Roman god search results using the `filter` function with the [data.js](#) dataset.

Suggested Time:

15 minutes



Time's Up! Let's Review.





Instructor Demonstration

Sorting and Slicing Methods



Activity: Sorting and Slicing

In this activity, you will sort, slice, and reverse the given array.

Suggested Time:

15 minutes



Time's Up! Let's Review.



Activity: Sorting and Slicing with Plotly

In this activity, you will sort, slice and reverse the [data.js](#) dataset to build a horizontal bar chart of the top 10 Greek god search results.

Suggested Time:

15 minutes



Time's Up! Let's Review.

Questions?



*The
End*