

JAVASCRIPT DEVELOPMENT

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HELLO!

1. Pull changes from the `svodnik/jsd5` repo to your computer
2. Navigate to the `starter-code` folder

JAVASCRIPT DEVELOPMENT

SCOPE AND CLOSURES

LEARNING OBJECTIVES

At the end of this class, you will be able to

- Determine the scope of local and global variables
- Create a program that hoists variables
- Understand and explain closures

AGENDA

- Variable scope
- The `var`, `let`, and `const` keywords
- Hoisting
- Closures
- Lab

Checkin and questions

- The **most significant thing I learned** about using Conditionals and Functions is _____.
- My **biggest outstanding question** about using Conditionals and Functions is _____.

How do you know what someone's talking about when they don't specifically name the thing?

SCOPE

GLOBAL SCOPE

- A variable declared outside of a function is accessible everywhere, even within functions. Such a variable is said to have **global scope**.

LOCAL SCOPE

- A variable declared within a function is not accessible outside of that function. Such a variable is said to have **local scope**.

HOISTING

- JavaScript's behavior of moving declarations to the top of a scope.
- This means that you are able to use a function or a variable before it has been declared.

CLOSURES

- A **closure** is an inner function that has access to the outer (enclosing) function's variables.
- You create a closure by adding a function inside another function.
- A closure is also known as **lexical scope**

CLOSURES — KEY POINTS

- Closures have access to the outer function's variables (including parameters) **even after the outer function returns.**
- Closures store **references** to the outer function's variables.

LEARNING OBJECTIVES – REVIEW

- Determine the scope of local and global variables
- Create a program that hoists variables
- Understand and explain closures

NEXT CLASS PREVIEW

Hubot Lab

- › Install and configure all utilities needed to run a Hubot
- › Write scripts that allow your Hubot to interact with users of the class Slack organization

Exit Tickets!

Q&A