Overview for JavaScript

Just a quick survey: Regarding JavaScript, any of these looks familiar to you?

- Hoisting
- Strict Mode
- Closure
- Context
- Event (What about Event-driven)
- Scope
- Callback
- Prototypal
- PubSub
- Revealing Module

Why do we need JavaScript?

- Front End Engineering

- Back End Engineering

- Web assembly?

http://www.hanselman.com/blog/JavaScriptIsWebAssemblyLanguageAndThatsOK.aspx

- Some people even use Java, why not?

Variables

- What is a variable in JavaScript?

- How to declare a variable with value 5? How about "5"? Are they the same? Tricky (Auto Conversion)

- Types?
  Num, String, Bool, Object (typeof)

- Arithmitic? Operators?

- Comparison and Logic

Objects

- What's the point of having objects?

- How to define an object?

- Properties

- Objects and Class??

Functions

■ What is a function? Any relationship to objects?

■ Declare a function for me?

■ How many common ways can you declare a function in JavaScript? Any difference?

■ How to make a JavaScript function used for a web page?

Array, If statement, and all the things you can see in almost any language

- What else?

JavaScript & Front End

- How do you use JavaScript with your web page/web app?

- How to change HTML contents and styles using JavaScript?

- How to use JavaScript Functions in your webpage?

Tasks

You don't have to finish them all right now

■ **Basic HTML/CSS**: Create a page with a huge title, 4 div's of class "testdiv" and the first div of id "thediv", and a button saying "Nope".

■ **Using JavaScript**:

– *Change the content of thediv to a paragraph saying "I am the div"*

– *Change the content of the other 3 div's to contain a paragraph saying "I am the nth div"*

– *Add "I am the 1st div" to thediv*

– *Make thediv clickable, and when clicked, makes "I am thediv" disappear*

– *Make the button clickable, and when clicked, makes all the "I am the nth div" disappear and if clicked again, makes all of them show up. (Hint: Toggle)*

■ **Challenge (Maybe not so challenging)**:

– *Make a new button and always keep it at the bottom of everything else.*

– *If the new button is clicked, it creates a new section under the newest one, containing 4 div's, and the Nope button as before (You need to also make the Nope button work for only the corresponding section)*