Basic JavaScript BOM Developing your tools and arsenals of knowledge.

...programming language of HTML and the Web

Roles - Front End Development

- ► HTML define web page content
- CSS set web page layout
- ► JavaScript manipulate web page behavior

Programming: Tools and Arsenals

- Programming Arsenals an array of resources available for a certain purpose.
- Programming Tools one should be equipped with tools for production of software.

Programming Arsenals

- Create comments: // or /* */
 var town = "Monterey"; //my town
- declare variables:

```
var xyz = 100;
```

- Know the purpose functions function name() {}
- Know the purpose of using Objects var person ={type:"thin", height:"66", eyes:"brown"};

Programming Arsenals cont.

- Collections (container)
 - Syntax: var array_name = [item1, item2, ...];
 - Array: var names = ["Jina","Randy","Greg", Susan"]
 - var xyz = document.getElementsByTagName("p");
- array
- Loops
 - ► While: while(condition) {}
 - ► For: for(i=0; i< 12; i++) {}
 - ► For/in: for(x in array) {}
 - ▶ Do/while: do { statements} while (condition)

Programming Tools

- Must know your tools.
- ► Get comfortable using it. Why?
- ► Learning Style preferences
 - Command line, IDE learn your natural learning preferences
- ► Master your environment.

BOM (Browser Object Model)

- No official standards for BOM (methods/properties)
- ► Control/manipulate/read the browsers' behavior, global variables and functions.

BOM Purposes

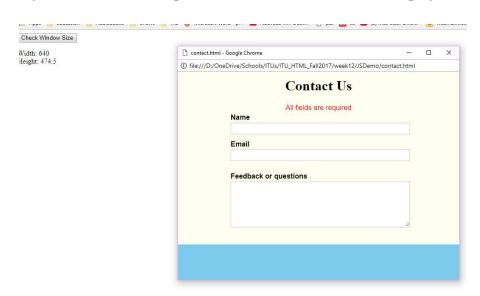
- ► Has lots of purposes depending upon what you're doing.
- Example,
 - ▶ Open another window (modal) /tab
 - ► Check the size of the browsers
 - ► Close browsers
 - ► Make read only
 - ► Control not to show the navigations
 - ► Control Cookies....etc...etc...

BOM - Open another window example

- SYNTAX:
 - ► The syntax to open a popup is: window.open(url, name, params):
 - ▶ url load into the new window
 - ▶ Name name of the new window
 - > params configuration string for the new window.
- ► Sample Usage (chrome): openwindow.html demo
 - open a window with minimal set of features.
- ► Features: menubar, toolbar, status, resizable, scrollbars

BOM - Purpose: Check the window size. checkwindowsize.html

► Know the size of the screen of your clients and resize your dialogue box accordingly.



BOM Purpose: Manipulate Cookies/Danger

- Data stored in your computer.
- Use to store information about the client.
- name-value pairs
- For example:
 - password=asdf1234
 - username=david
- Usage: docoument.cookie = "username=david";
- ► Potential Risks
 - ▶ Websites can use cookies to gather/sell info
 - ► Track your surfing behavior