

Fundamentals of Website Development

CSC 2320, Fall 2015

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The Department of Computer Science

In this chapter

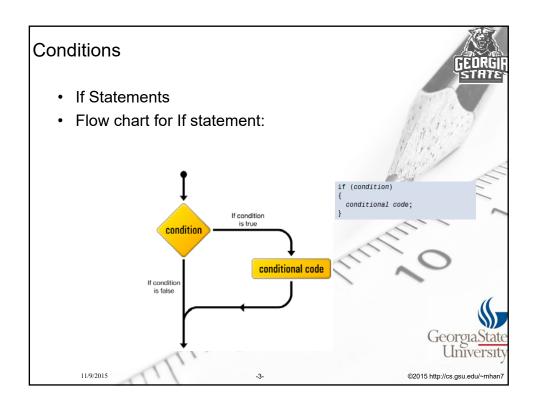
- Programming with JavaScript
 - –Conditions and Loops:
 Controlling Program Flow
 - -Functions
 - -Objects

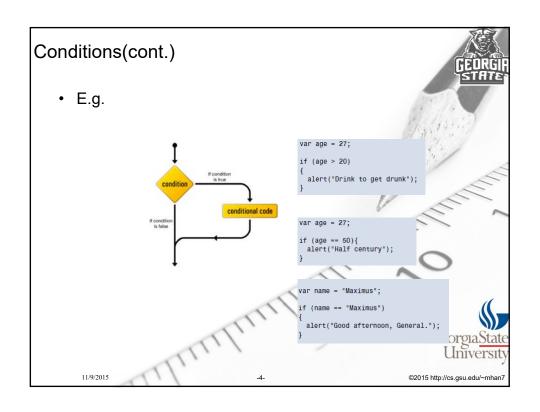


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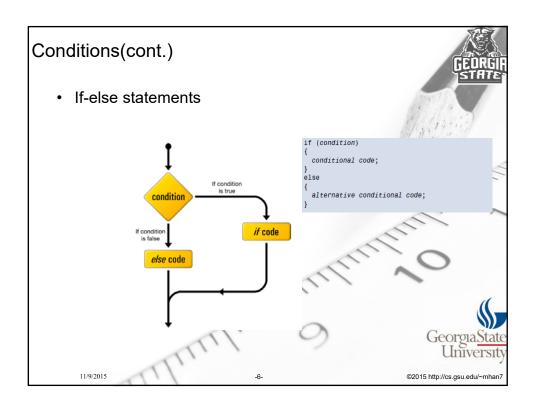
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```
Conditions(cont.)
     • Multiple conditions
         - Use "&" or "||" to chain all the conditions
         - "&": And
          - "||": Or
                       var age = 27;
                       if (age > 17 && age < 21)
                        alert("Old enough to vote, too young to drink");
                      var sport = "Skydiving";
                      if (sport == "Bungee jumping" || sport
    sport == "Skydiving")
                                                           == "Cliff diving" ||
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                        alert("You're extreme!");
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```



```
Conditions(cont.)

• Else-if statements
• E.g.

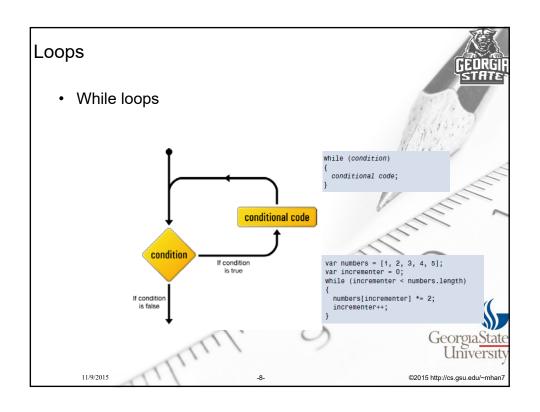
var name = "Marcus";

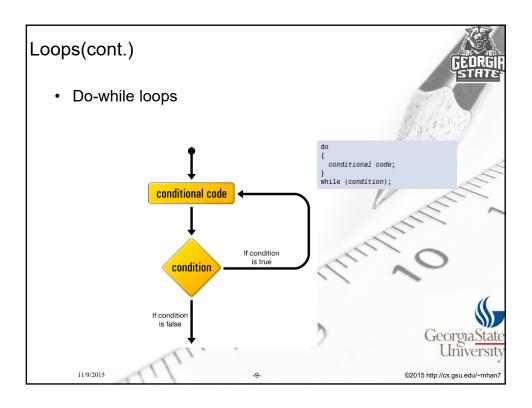
if (name == "Marcus");
{
    alert("Good afternoon, General.");
} else if (name == "Marcus");
{
    alert("Good afternoon, Emperor.");
} else
{
    alert("You are not allowed in.");
}

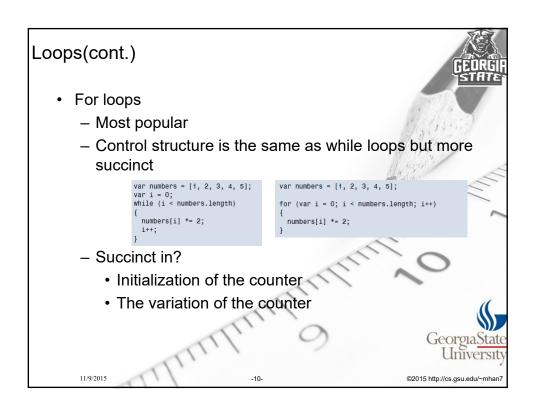
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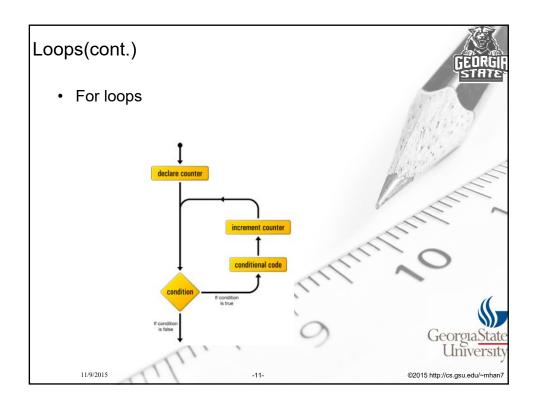
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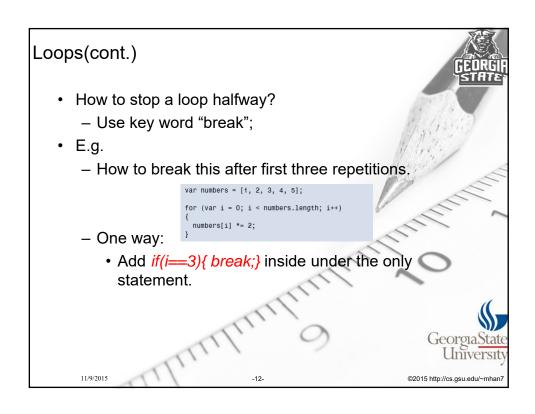
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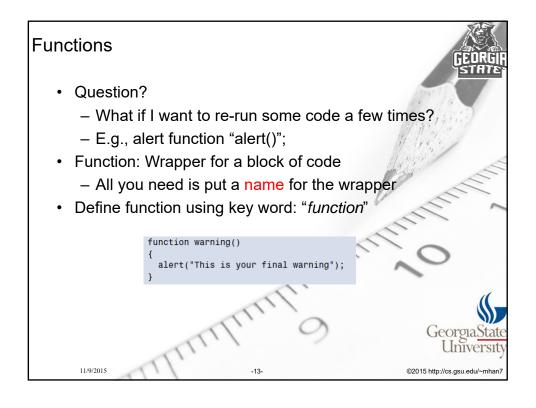


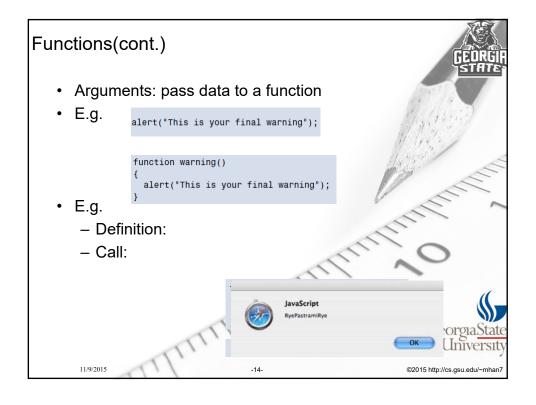


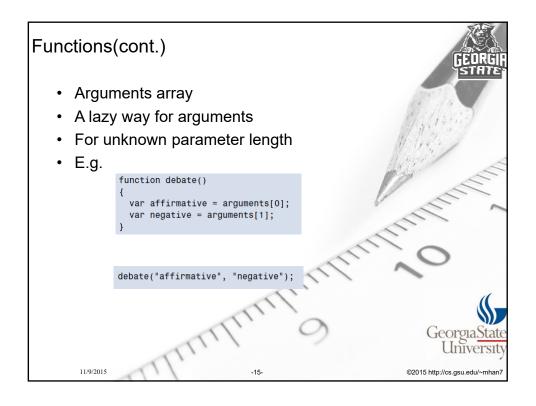


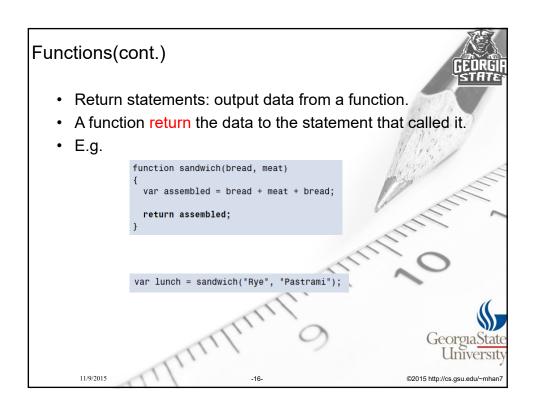












Functions(cont.)

- Return statements: output data from a function.
- Return is always the final action of the function (like break in loops).
- E.g., will the alert() pop up?

```
function prematureReturner()
{
  return "Too quick";
  alert("Was it good for you?");
}
```

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Functions(cont.)

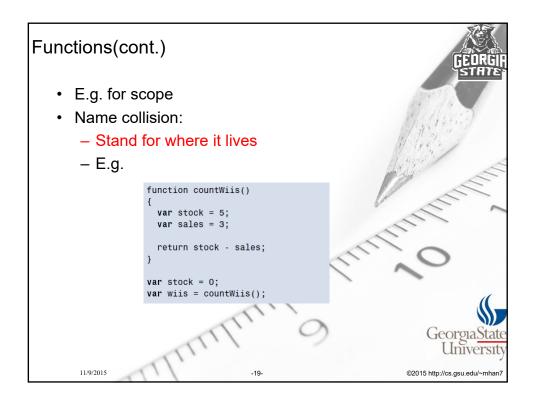
- · Scope: keep the variables separate
- Scope decides where and when a variable is alive.
- Scope:
 - Global scope: Live in the program and alive until the end of the program
 - Local scope: Live in the function and die when the function returns or ends.

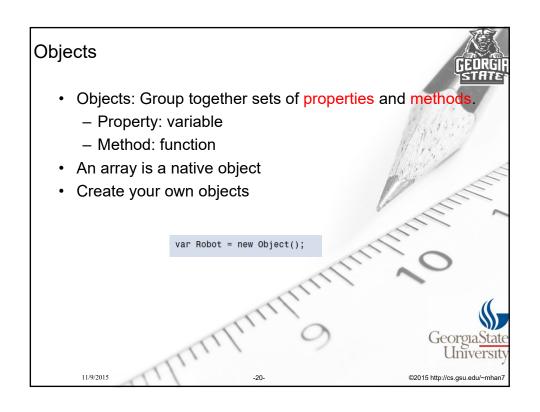


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Objects(cont.)

 E.g., imagine the object as an array and its content may store native or complex data types or functions.

```
var Robot = new Object();

Robot.metal = "Titanium";
Robot.killAllHumans = function()
{
    alert("Exterminate!");
};

Robot.killAllHumans();
var Robot =

{
    metal: "Titanium",
    killAllHumans: function()
{
        alert("Exterminate!");
    }
};

Robot.killAllHumans();
```

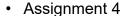
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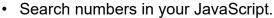
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Homework





- Declare an array with the a sequence of numbers.
 E.g., following numbers in order.
 [9,3,4.3,24,54,8,19,23,46,87,3.14].
- Task 1, pop up a window to output the index of number "23".
- Task 2, pop up a single window to output all the numbers that are larger than 10.
- Alternatives: You better use functions to do the jobs.
 Like define a compare() function to test whether the current data is satisfied or not.
- Due date: Nov. 18th, 2015.

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