

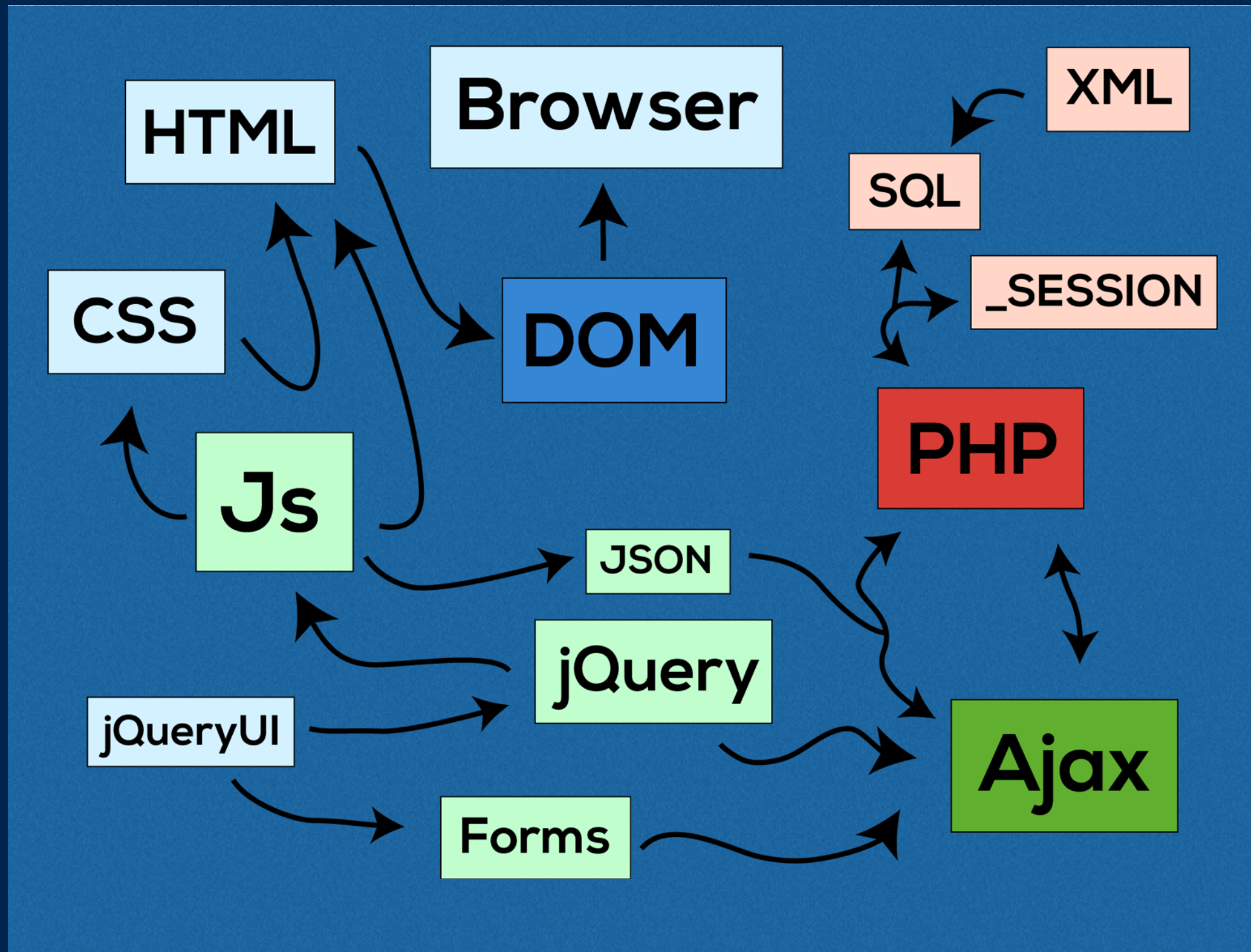
Language Cooperation in Web Development

Single page websites with Javascript,
Ajax, PHP, MySQL, and XML

Stephen Burgess

“In the *Meditations*, Descartes dramatized the orientation of modern thought... Such a project was geared toward rendering the world as an object... Implicit and complicit in this reduction are the human reason's manipulation and control of nature in modern technology...”

Language Interactions



Definitions

D.O.M. - Document Object Model

HTML - HyperText Markup Language

CSS - Cascading Style Sheets

JS - JavaScript

jQuery - JS library used by >80% of 10k most visited websites

jQueryUI - Themable Widget Set built on jQuery

JSON - JavaScript Object Notation

Ajax - Asynchronous JavaScript and XML

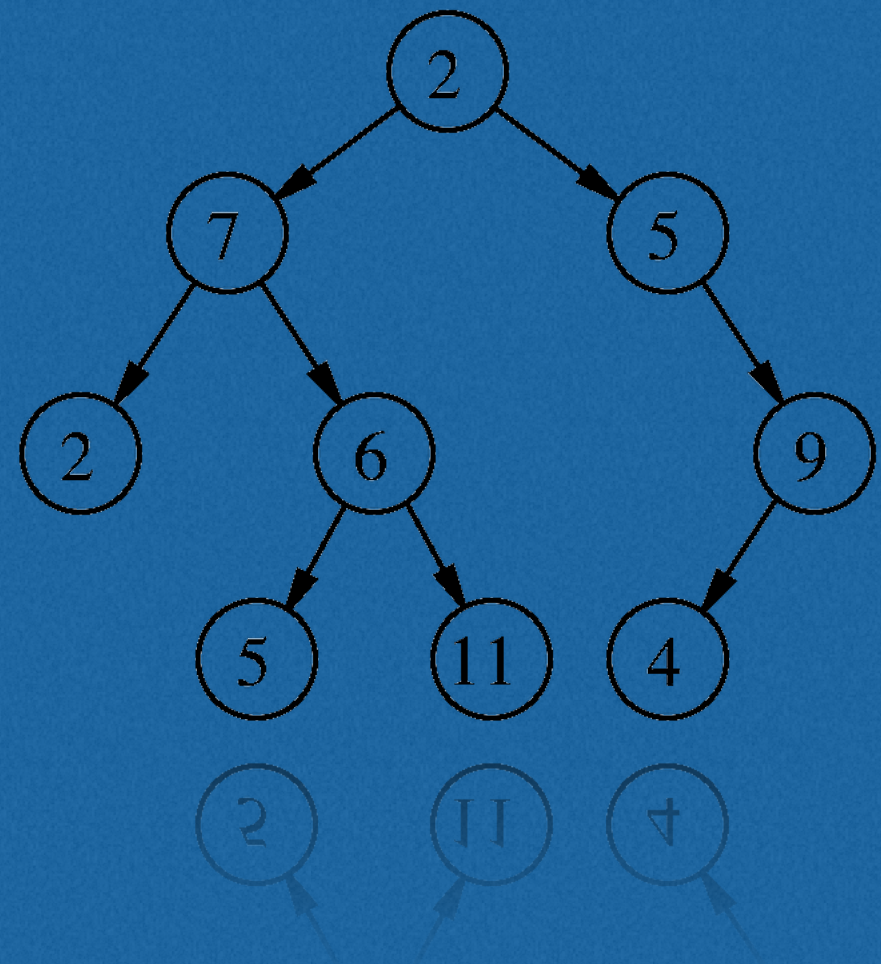
PHP - "PHP: Hypertext Preprocessor" - server-side scripting

SQL - Structured Query Language

XML - Extensible Markup Language

D.O.M. Structure

- Root Node
 - Parent Node
 - Child Node
 - Parent Node
 - Parent Node
 - Child Node
 - Child Node



Forming HTML

```
<article class="story" id="state00"  
  title='Inn Room' style="display:none;">  
  <p>You wake up in a small room in an inn.  
  The morning light coming through the window  
  just reached your pillow. The fire went out  
  during the night and now the room is cold.  
  <a class="move" href="#" id="s01">  
  Go to the lobby?</a>  
  </p>  
</article>
```

Forming Ajax Calls

```
function move() {  
    $('move').on('click', function (e) {  
        e.preventDefault();  
        var linkObject = $(this);  
        var linkTarget = linkObject.attr("id").substr(1);  
        $.ajax({  
            url: 'php/move.php',  
            type: "POST",  
            data: {  
                target: linkTarget  
            },  
            dataType: 'json',  
            success: function (data) { ... } });  
    });  
}
```


Forming Ajax Calls

```
success: function (data) {  
    document.getElementById("avatar")  
        .src="images/"+data.avatar+".png";  
    document.getElementById("state"+data.lastState)  
        .style.display="none";  
    document.getElementById("state"+data.state)  
        .style.display="block";  
}
```

JavaScript

```
success: function (data) {  
    $("#actor").html(data.actorName);  
    $("#type").html(data.type  
        .charAt(0).toUpperCase()+data.type.slice(1));  
    $("#state"+data.lastState).remove();  
    $("#state"+data.state).show();  
}
```

jQuery

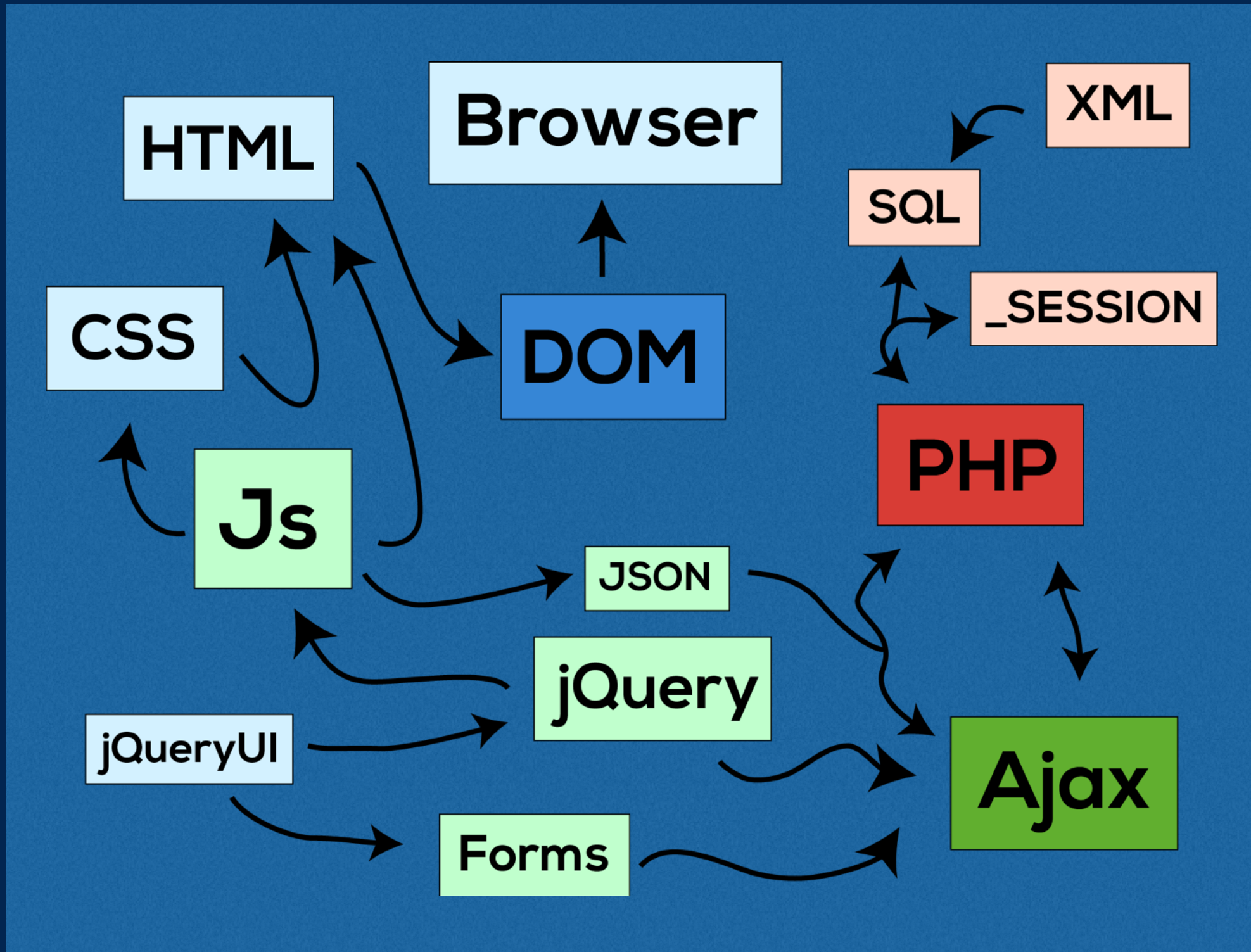
String Manipulation

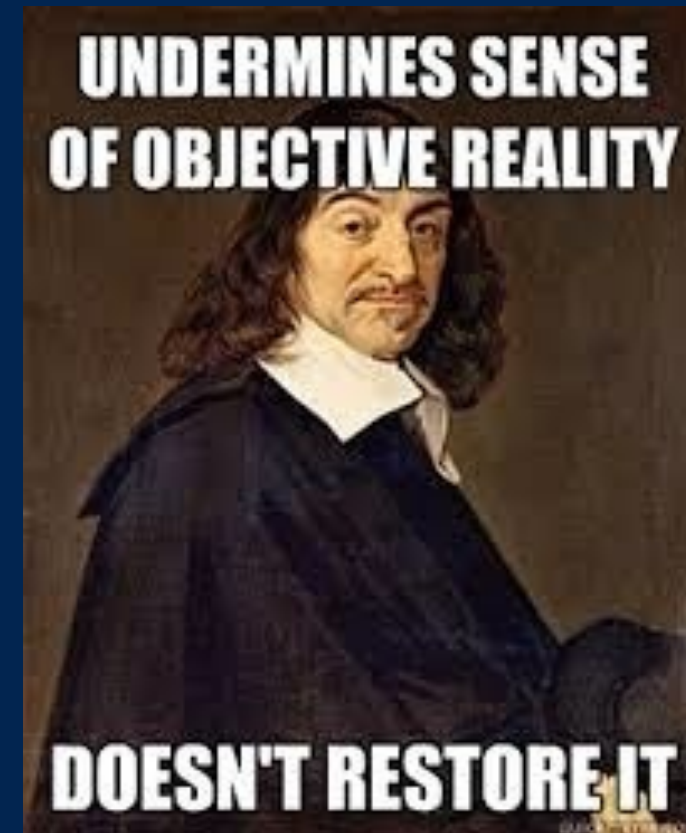
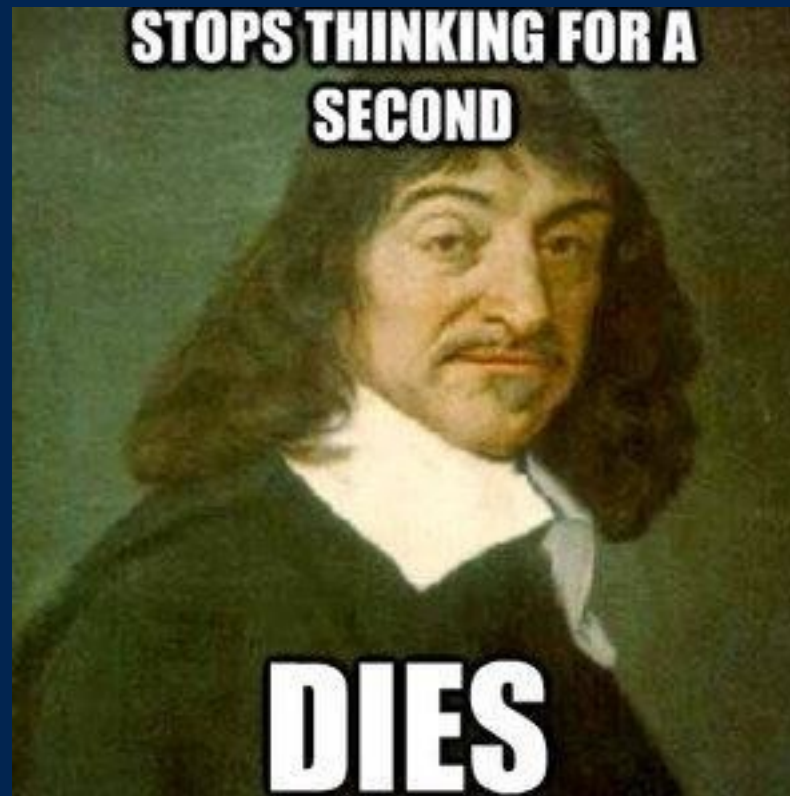


Forming PHP

```
<?php                                     require 'actor.php';
    session_start();
    // Grab user object from secure session variable
    $user = unserialize($_SESSION['user']);
    // Set the 'lastState' to current location
    $user->lastState = $user->state;
    // Set the current 'state' of user to new location
    $user->state = $_POST['target'];
    // Moves time forward one unit
    $user->timeTick();
    // Update user object in session variable
    $_SESSION['user'] = serialize($user);
    echo json_encode($user);                ?>
```

Language Interactions





Hatab, L.(1999). Object. In Dictionary of existentialism.

Retrieved from <http://ezproxy.purchase.edu:2048/login?url=http://search.credoreference.com/content/entry/gwexist/object/0>

Triple-Bottom Line

People, Planet, Profit

- 1** Market
- 2** Values
- 3** Transparency
- 4** Life-Cycle Technology
- 5** Partnerships
- 6** Time
- 7** Corporate Governance

Compliance	>>	Competition
Hard	>>	Soft
Closed	>>	Open
Product	>>	Function
Subversion	>>	Symbiosis
Wider	>>	Longer
Exclusive	>>	Inclusive