

Website design for artists (INTRO)

#4 Basic jQuery

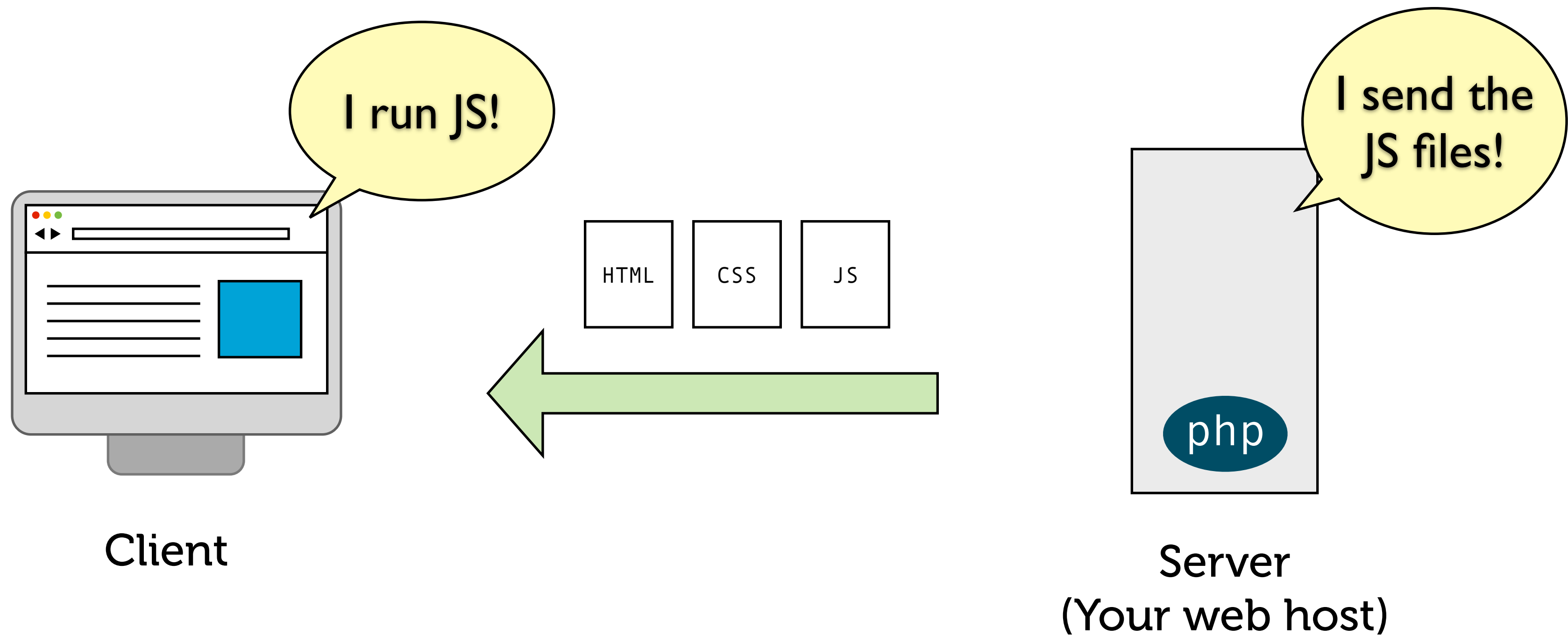
Today

- What is JavaScript?
- How to add JavaScript to a webpage
- What is jQuery?
- How to use jQuery

Java-wha?

JavaScript

- Used as client-side scripting language in web browsers
 - Also used in PDF documents, browser add-ons, desktop widgets
 - Not the same as “Java”
 - Called “JScript” in Internet Explorer
- ↖ Boo



Client-side vs.
Server-side

What can it do?

- Slideshows
- Form validation
- Animations
- Manipulate Styles
- Annoy users with popups
- Detect browsers
- Advanced tooltips
- Pagination
- Table sorting
- Online games
- Drag and drop
- Tons of s**t!

What's the catch?

- JavaScript can be disabled in browsers
- May not be available for certain screen readers, mobile phones, etc.
- Is mostly invisible to search engine indexers

```
<script type="text/javascript"  
src="script.js"></script>
```

Adding script in HTML

```
<script type="text/javascript">  
<!--//--><![CDATA[//><!--  
alert("Hello!");  
//--><!]]>  
</script>
```

Embedded script

JavaScript Basics

```
var name = "Dan";  
alert("Hello "+name);
```

Variables

```
function example() {  
    return "Hello";  
}
```

```
var message = example();  
alert(message);
```

Functions

```
function example(name) {  
    return "Hello " + name;  
}
```

```
var message = example("Dan");  
alert(message);
```

Function with arguments

```
var object = {  
    variable: "value",  
    function: function() {  
        // do stuff  
    }  
};
```

```
alert(object.variable);
```

Objects

jQuery

Jay-kwerry?

- JavaScript library which makes client-side scripting easier
- Most popular JavaScript library (included in lots of web software)
- FREE!

Advantages

- Easy to learn
- Write less, do more
- Cross-browser compatible
- Lightweight (29kb)
- Plugins

How to use

- Download from <http://jquery.com>

- Or use Google Libraries:

```
<script type="text/javascript"src="//  
ajax.googleapis.com/ajax/libs/jquery/1.5.0/  
jquery.min.js"></script>
```

How jQuery Works

“Method”



```
$("selectors").dothis();
```

jQuery Syntax

```
$(document).ready(function() {  
    //jquery goes here  
});
```

Run jQuery script once page has loaded

```
$ (document) .ready (function() {  
    $ ("h2") .fadeOut ();  
} ) ;
```

Simple example

```
$(h2).text("h2!").fadeIn();
```

Chaining

Selectors

- Uses CSS Selectors + adds its own
- Don't have to worry about browser compatibility
- All selectors are referenced at <http://api.jquery.com>

Effects

```
.fadeIn()  
.fadeOut()  
.fadeTo("slow", 0.5)
```

Fade effect

`.show()`
`.hide()`

Show/hide elements

```
.animate({height: '20px'}, 500);
```

Animate

Events

```
$("#target").click(function() {  
    alert($(this).text());  
});
```

Click

```
$( "#target" ).hover(  
    function() {  
        $(this).addClass( "hover" );  
    },  
    function() {  
        $(this).removeClass( "hover" );  
    }  
);
```

Hover