Javascript

"The big shift is that the web is becoming a client-side computing platform."

Tim Berners-Lee

javascript is a
client-side scripting language
invented specifically to make
websites more dynamic

JS: **Javascript**

www.google.com
maps.google.com
www.yahoo.com
www.flickr.com

AND

widgets, iphone apps, and
flash is based on javascript

Why Javascript?

(1) clients like whiz-bang
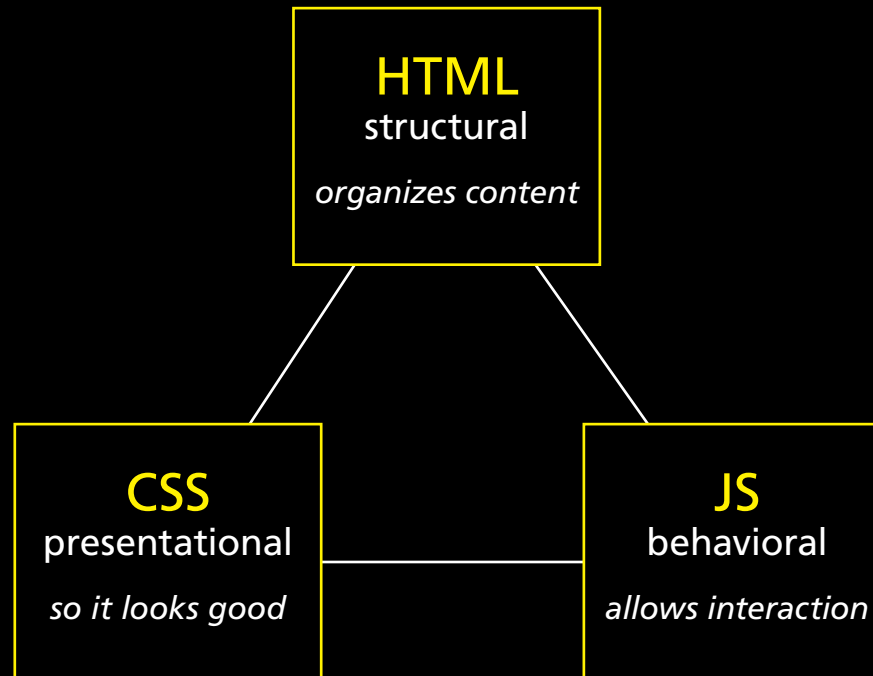
(2) enhanced user experience
- improved perceived application speed
- improved functionality

(3) client-side scripting language
- implemented by the browser,
  unlike PHP which is implemented by the server

Javascript doesn't act alone...

```
        ┌─────────────────┐
        │      HTML       │
        │   structural    │
        │                 │
        │organizes content│
        └─────────────────┘
         /               \
┌─────────────────┐   ┌─────────────────┐
│      CSS        │   │       JS        │
│  presentational │───│   behavioral    │
│                 │   │                 │
│ so it looks good│   │allows interaction│
└─────────────────┘   └─────────────────┘
```

Javascript can be implemented
in two different ways.
(much like .css)

embedded or external

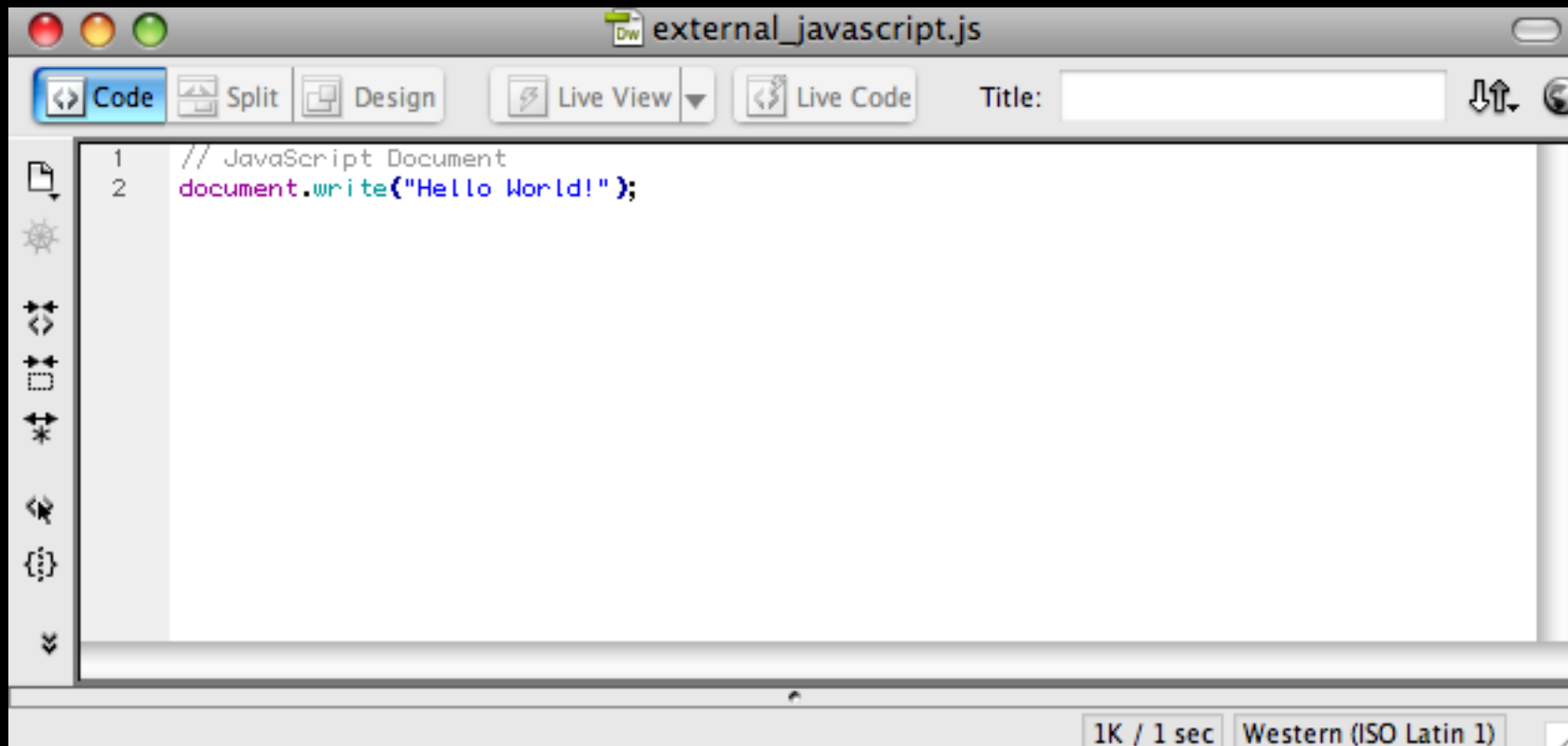# embedded

```
<script type= "text/javascript">
document.write("hello there");
</script>
```

external

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

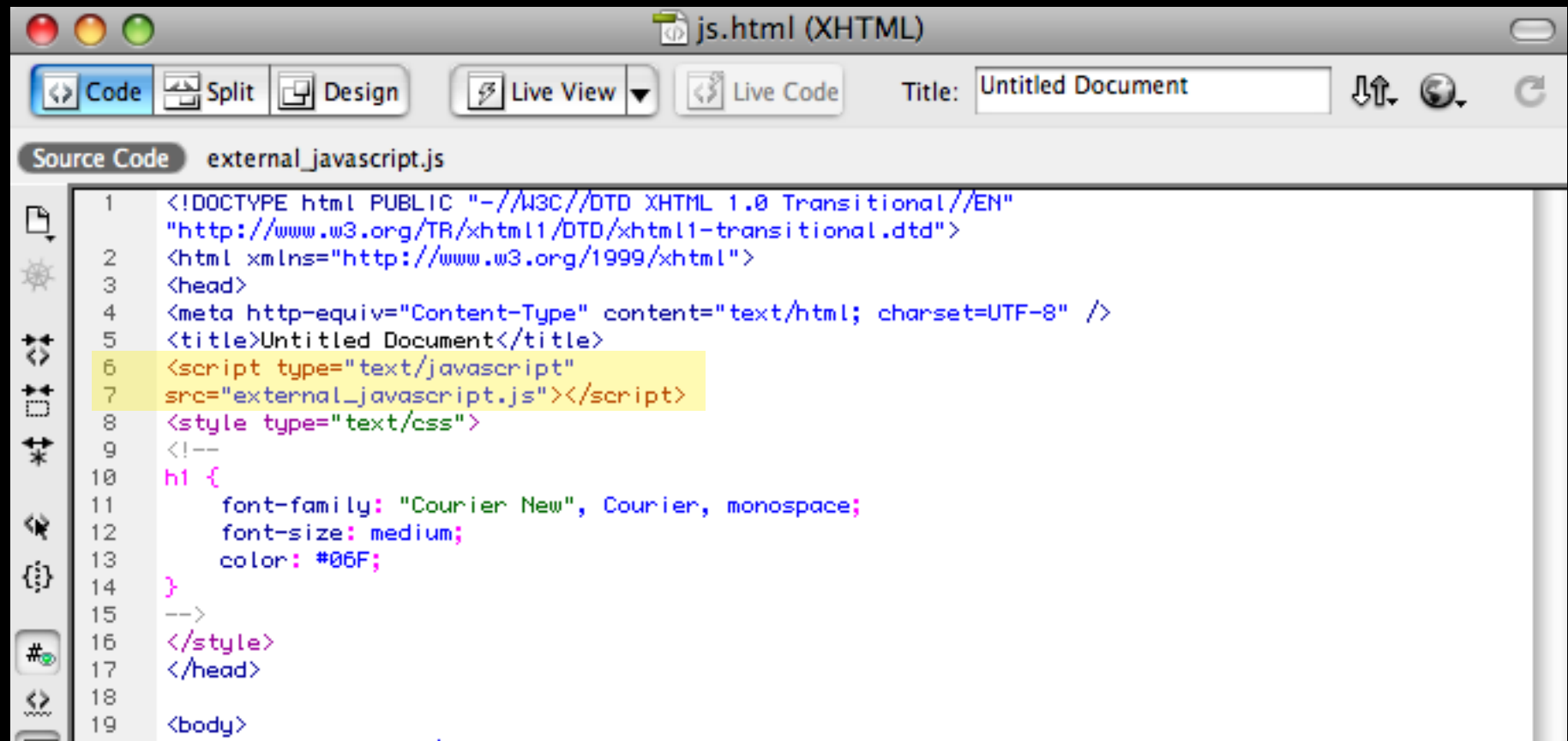this is an external javascript file named external_javascript.js
note the extension of .js

external_javascript.js

Code Split Design Live View ▾ Live Code Title: ⇵ 🌐

```
1    // JavaScript Document
2    document.write("Hello World!");
```

1K / 1 sec   Western (ISO Latin 1)

this is an html file named js.html
the .js file is linked to this .html file using <script> tags
between the <head> tags


```
1   <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
2   <html xmlns="http://www.w3.org/1999/xhtml">
3   <head>
4   <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
5   <title>Untitled Document</title>
6   <script type="text/javascript"
7   src="external_javascript.js"></script>
8   <style type="text/css">
9   <!--
10  h1 {
11      font-family: "Courier New", Courier, monospace;
12      font-size: medium;
13      color: #06F;
14  }
15  -->
16  </style>
17  </head>
18
19  <body>
```

watch the video tutorials on moodle. create a new .js file and then create an array with three elements.

http://www.youtube.com/watch?v=LZ1-vjr_tgM&feature=relmfu

http://www.youtube.com/watch?v=TO-YqEQfmiU&feature=relmfu