

CS601: Dynamic Webpages.

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This presentation is based on the course materials prepared by of Sophie Engle.

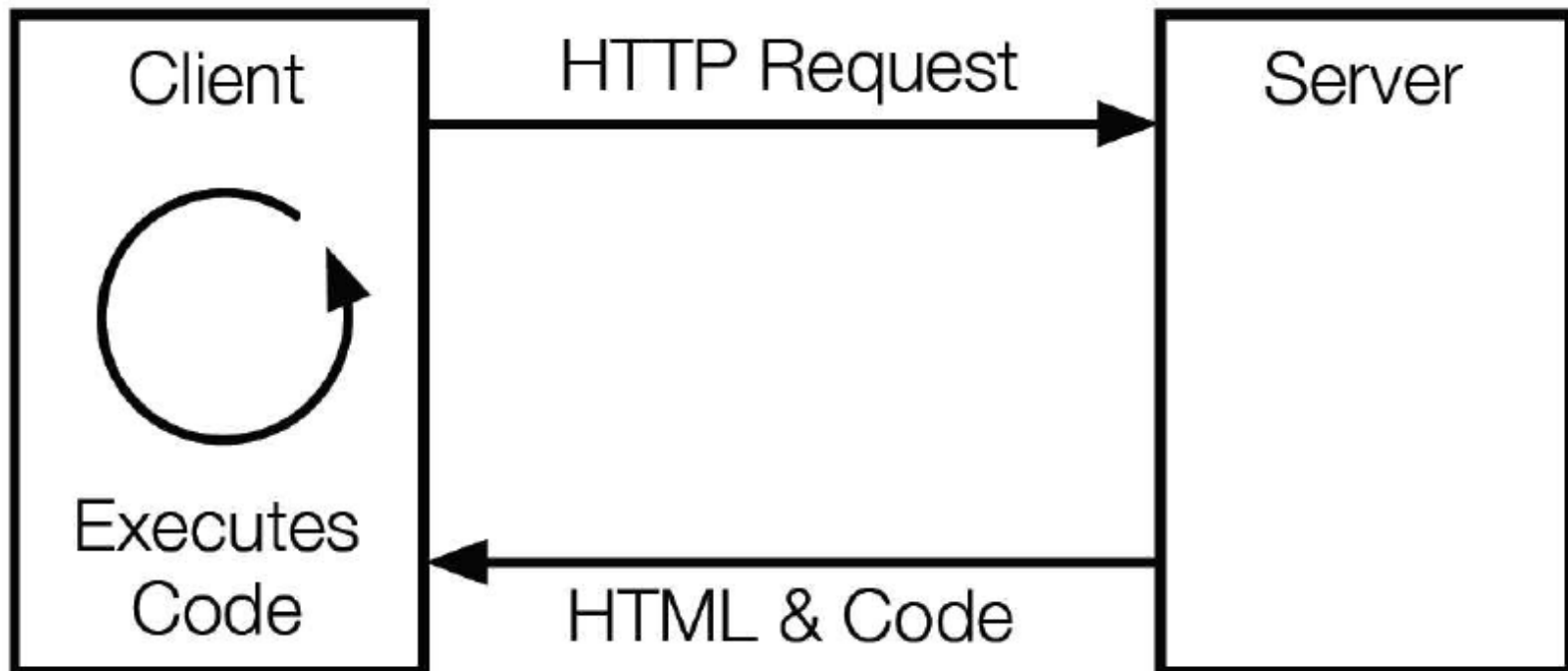
Static Webpages

- HTML files stored on the webserver
- Returned to the client exactly as stored
- For content that never or rarely needs to be updated

Dynamic Webpages

- Generated by the web app
- Dynamic pages
 - Client-side
 - Server-side

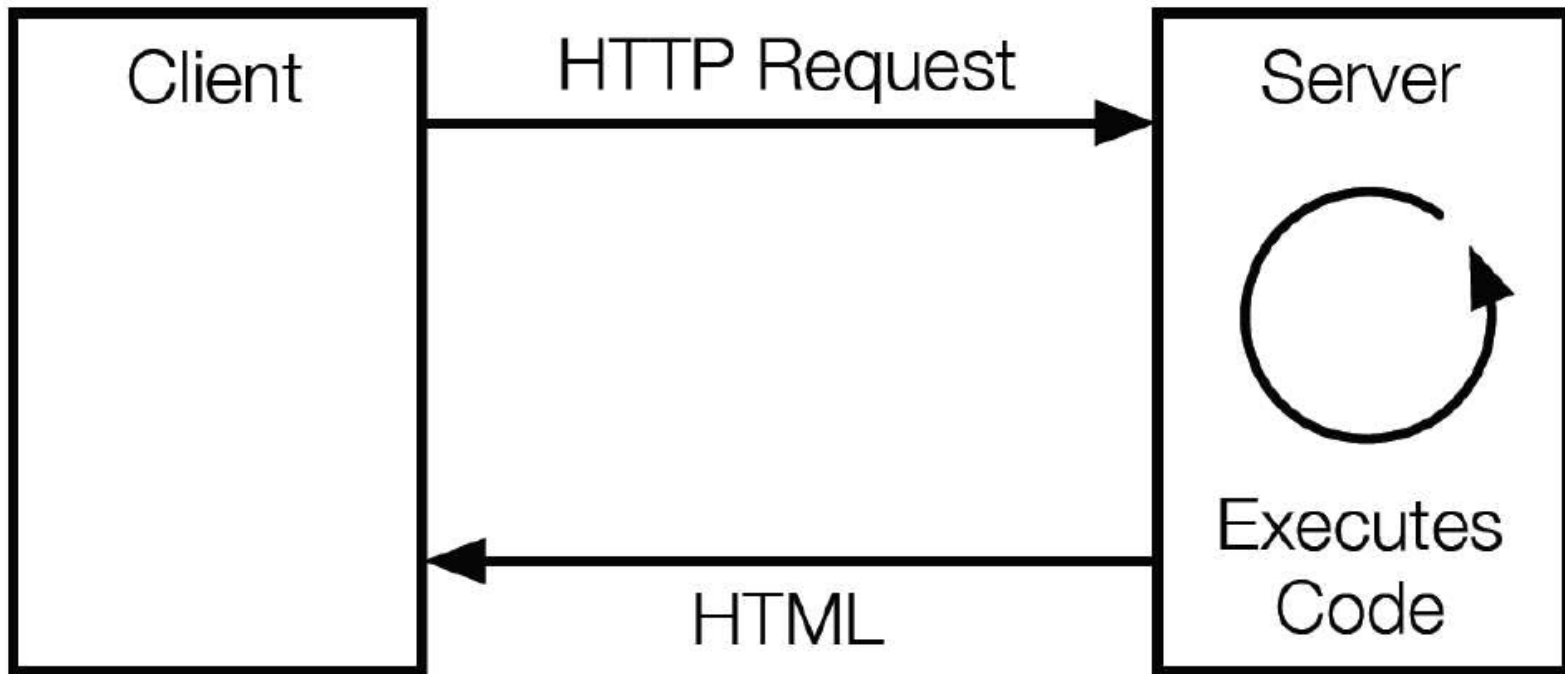
Client-Side Dynamic Webpages



Client-Side Dynamic Webpages

```
<!DOCTYPE html>
<html>
<body>
<p>Click the button to get a time-based greeting.</p>
<button onclick="myFunction()">Try it</button>
<p id="demo"></p>
<script>
function myFunction() {
    var x = "";
    var time = new Date().getHours();
    if (time < 20) {
        x = "Good day";
    }
    else {
        x = "Good evening";
    }
    document.getElementById("demo").innerHTML=x;
}
</script>
</body>
</html>
```

Server-Side Dynamic Webpages



Server-Side Dynamic Webpages

```
<!DOCTYPE html>
<html>
<body>
<?php
    $t = date("H");
    if ($t < "20") {
        echo "Have a good day!";
    }
?>
</body>
</html>
```

Comparison

- Client-side
 - Server returns HTML and code, client executes
 - Javascript, applets etc
- Server-side
 - Server executes code, and returns HTML
 - Generate HTML: CGI scripts (Python, Perl), servlets
 - Embed code in HTML: PHP, JSP (Java Server Pages)