

Mahi Gada

## HTTP-Server Output:

```
[mahigada@mahi desktop % python3 HTTP-server.py localhost 12000  
The server is ready to receive on port: 12000
```

## HTTP-Client Output:

### 1. Run client when web object not cached (or no cache exists):

```
[mahigada@mahi desktop % python3 HTTP-client.py localhost:12000/filename.html  
HTTP Request:  
GET /filename.html HTTP/1.1  
Host:localhost:12000  
  
HTTP Response:  
HTTP/1.1 200 OK  
Date: Thu, 12 Nov 2020 14:51:17 GMT  
Last-Modified: Thu, 12 Nov 2020 19:49:30 GMT  
Content-Length:721  
Content-Type: text/html; charset=UTF-8  
  
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">  
<html>  
<head>  
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
  <meta http-equiv="Content-Style-Type" content="text/css">  
  <title></title>  
  <meta name="Generator" content="Cocoa HTML Writer">  
  <meta name="CocoaVersion" content="1404.47">  
  <style type="text/css">  
    p.p1 {margin: 0.0px 0.0px 0.0px 0.0px; font: 12.0px Helvetica}  
  </style>  
</head>  
<body>  
<p class="p1">&lt;html&gt;</p>  
<p class="p1">&lt;p&gt;First Line&lt;br /&gt;</p>  
<p class="p1">Second Line&lt;br /&gt;</p>  
<p class="p1">Third Line&lt;br /&gt;</p>  
<p class="p1">COMPLETED&lt;p&gt;</p>  
<p class="p1">&lt;html&gt;</p>  
</body>  
</html>
```

### 2. Run client when web object cached, but not modified on server:

```
[mahigada@mahi desktop % python3 HTTP-client.py localhost:12000/filename.html  
HTTP Request:  
GET /filename.html HTTP/1.1  
Host:localhost:12000  
If-Modified-Since: Thu, 12 Nov 2020 19:49:30 GMT
```

```
HTTP Response:  
HTTP/1.1 304 Not Modified  
Date: Thu, 12 Nov 2020 14:52:26 GMT
```

### 3. Run client when web object cached, but modified on server:

```
[mahigada@mahi desktop % python3 HTTP-client.py localhost:12000/filename.html
```

```
HTTP Request:
```

```
GET /filename.html HTTP/1.1
```

```
Host:localhost:12000
```

```
If-Modified-Since: Thu, 12 Nov 2020 19:53:51 GMT
```

```
File has been modified
```

```
HTTP Response:
```

```
HTTP/1.1 200 OK
```

```
Date: Thu, 12 Nov 2020 14:53:54 GMT
```

```
Last-Modified: Thu, 12 Nov 2020 19:53:51 GMT
```

```
Content-Length:757
```

```
Content-Type: text/html; charset=UTF-8
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
```

```
<html>
```

```
<head>
```

```
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
```

```
  <meta http-equiv="Content-Style-Type" content="text/css">
```

```
  <title></title>
```

```
  <meta name="Generator" content="Cocoa HTML Writer">
```

```
  <meta name="CocoaVersion" content="1404.47">
```

```
  <style type="text/css">
```

```
    p.p1 {margin: 0.0px 0.0px 0.0px 0.0px; font: 12.0px Helvetica}
```

```
  </style>
```

```
</head>
```

```
<body>
```

```
<p class="p1">&lt;html&gt;</p>
```

```
<p class="p1">&lt;p&gt;First Line&lt;br /&gt;</p>
```

```
<p class="p1">Second Line&lt;br /&gt;</p>
```

```
<p class="p1">Third Line&lt;br /&gt;</p>
```

```
<p class="p1">COMPLETED&lt;p&gt;</p>
```

```
<p class="p1">MODIFIED&lt;p&gt;</p>
```

```
<p class="p1">&lt;html&gt;</p>
```

```
</body>
```

```
</html>
```

### 4. Web object does not exist:

```
[mahigada@mahi desktop % python3 HTTP-client.py localhost:12000/filenameNOTEXIST.html
```

```
HTTP Request:
```

```
GET /filenameNOTEXIST.html HTTP/1.1
```

```
Host:localhost:12000
```

```
HTTP Response:
```

```
HTTP/1.1 404 Not Found
```

```
Date: Thu, 12 Nov 2020 14:54:53 GMT
```

```
Content-Length: 0
```