

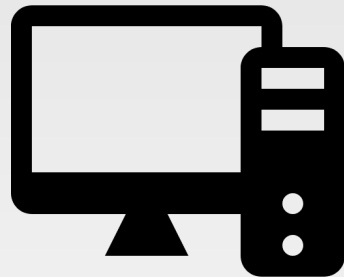
Aplicaciones Web

Tecnologías y Aplicaciones Web

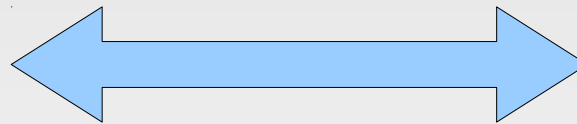
Gabriel Vidal Salazar



¿Cómo era la web en un principio?



HTTP

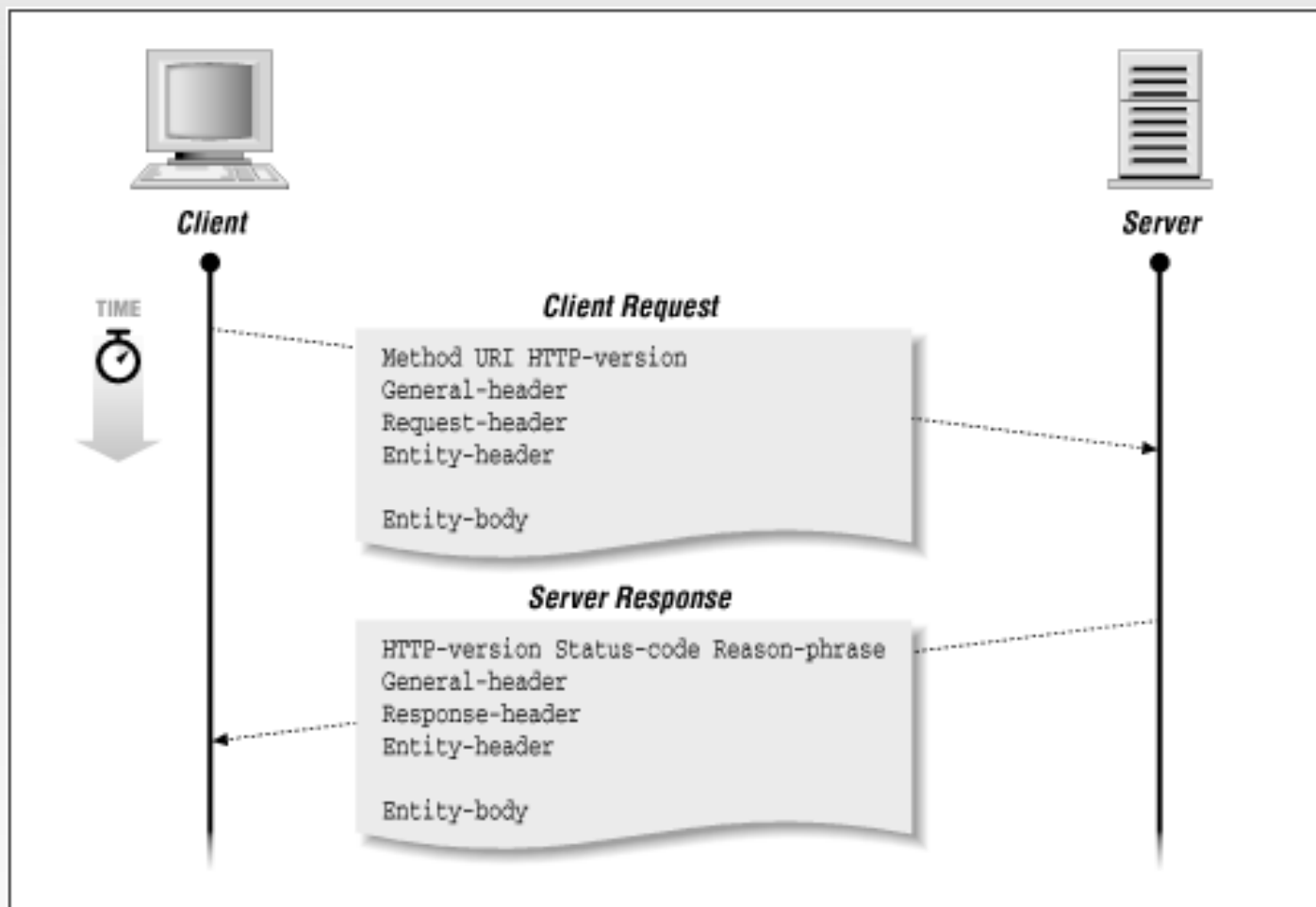


`http://host/index.html`



¿HTTP?

Hyper Text Transfer Protocol



```
GET /doc/test.html HTTP/1.1
```

```
Host: www.test101.com
```

```
Accept: image/gif, image/jpeg, */*
```

```
Accept-Language: en-us
```

```
Accept-Encoding: gzip, deflate
```

```
User-Agent: Mozilla/4.0
```

```
Content-Length: 35
```

```
bookId=12345&author=Tan+Ah+Teck
```

Request Line

Request Headers

Request
Message
Header

A blank line separates header & body

Request Message Body

```
HTTP/1.1 200 OK
```

```
Date: Sun, 08 Feb xxxx 01:11:12 GMT
```

```
Server: Apache/1.3.29 (Win32)
```

```
Last-Modified: Sat, 07 Feb xxxx
```

```
ETag: "0-23-4024c3a5"
```

```
Accept-Ranges: bytes
```

```
Content-Length: 35
```

```
Connection: close
```

```
Content-Type: text/html
```

```
<h1>My Home page</h1>
```

Status Line

Response Headers

Response
Message
Header

A blank line separates header & body

Response Message Body

Métodos / Operaciones

- **GET:** Obtiene un recurso
- **PUT:** Reemplazar el recurso por entidad adjunta
- **PATCH:** Modificar el recurso con entidad adjunta
- **POST:** Agregar entidad adjunta a colección
- **DELETE:** Eliminar recurso

Ejemplos

`/articles`

`/articles/:id`

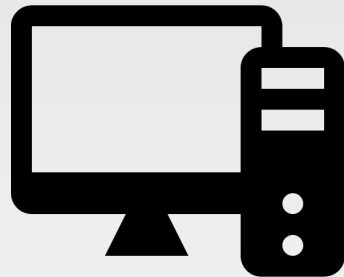
`/articles/:id/comments`

`/articles/:articleId/comments/:id`

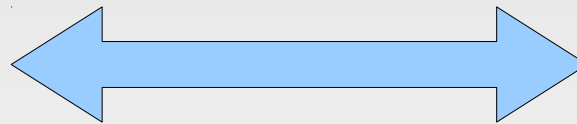
Códigos de estado

Lista con detalle: [Wikipedia](#)

- **1XX:** Información
- **2XX:** Éxito
- **3XX:** Redirección
- **4XX:** Error de cliente
- **5XX:** Error de servidor



HTTP



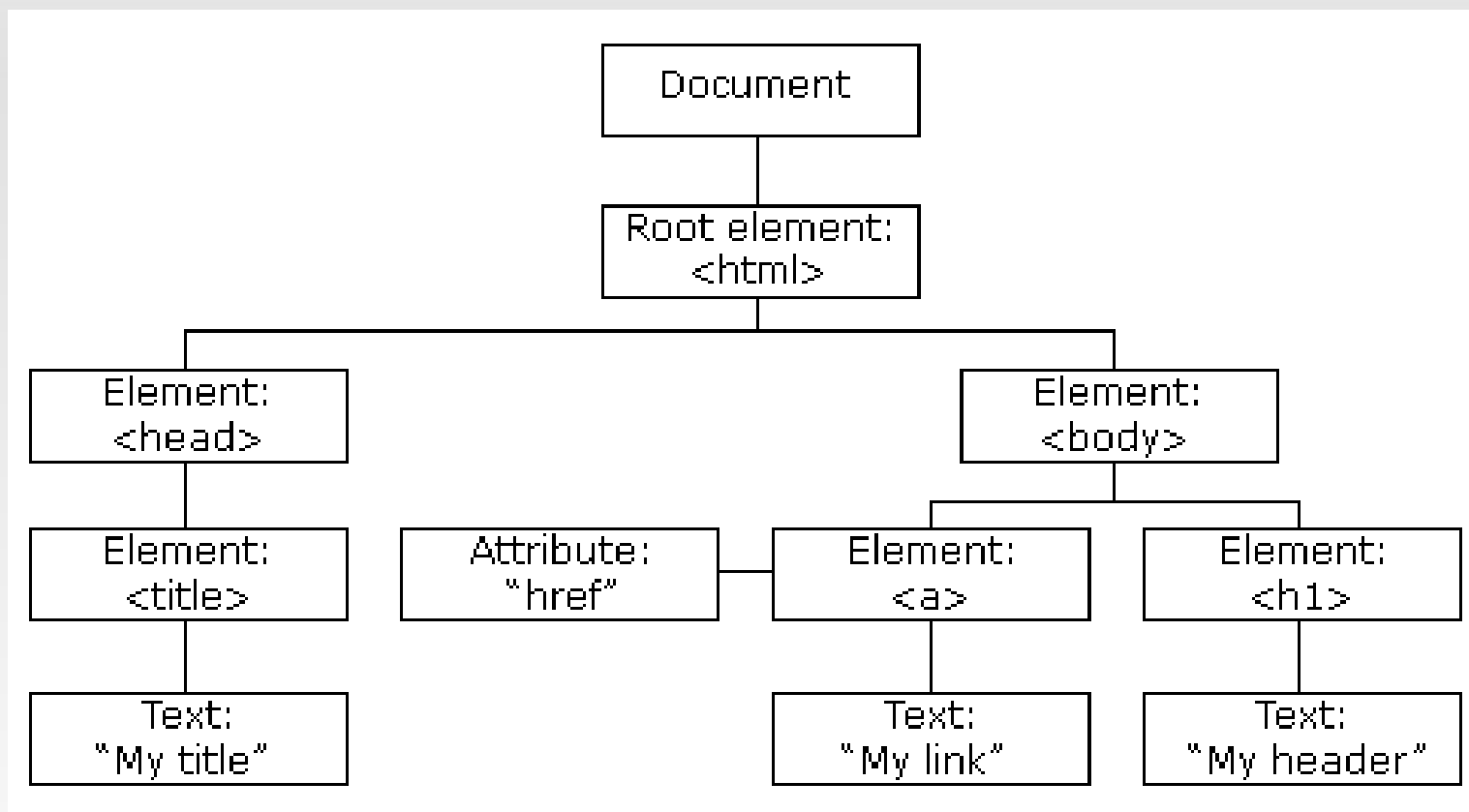
`http://host/index.html`



¿HTML?

Hyper Text Markup Language

```
1  <!DOCTYPE html>
2  <html>
3      <head>
4          <title>Example</title>
5          <link rel="stylesheet" href="style1" />
6      </head>
7      <body>
8          <h1>
9              <a href="/">Header</a>
10         </h1>
11         <nav>
12             <a href="one/">One</a>
13             <a href="two/">Two</a>
14             <a href="three/">Three</a>
15         </nav>
```



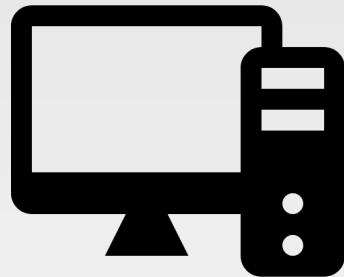
Referencias

Oficial (W3C)

<http://www.w3.org/TR/html5/>

MDN web docs

<https://developer.mozilla.org/en-US/docs/Web/HTML>

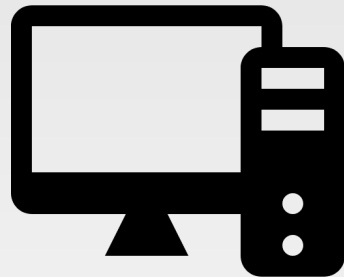


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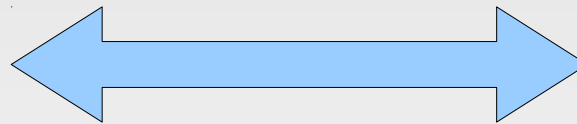


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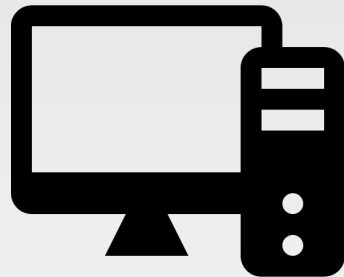


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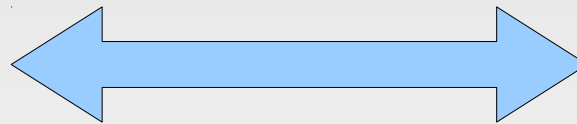


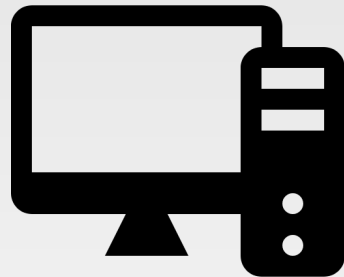
`http://host/dyn-doc`



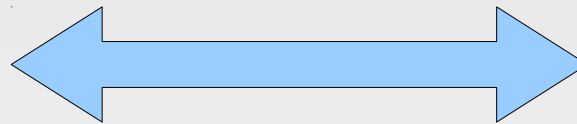


HTTP





HTTP



Volvamos a HTML

``

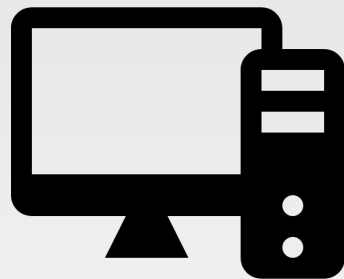
`<table></table>`

¡NO los usaremos!

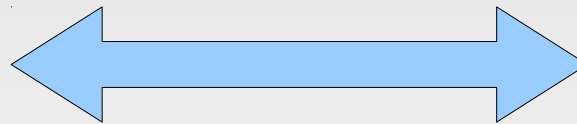
HTML es para la estructura...

`<i></i>`

`<center></center>`

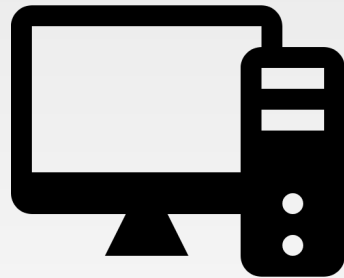


HTTP



Trabajo coordinado





Frontend

HTTP



APACHE
HTTP SERVER

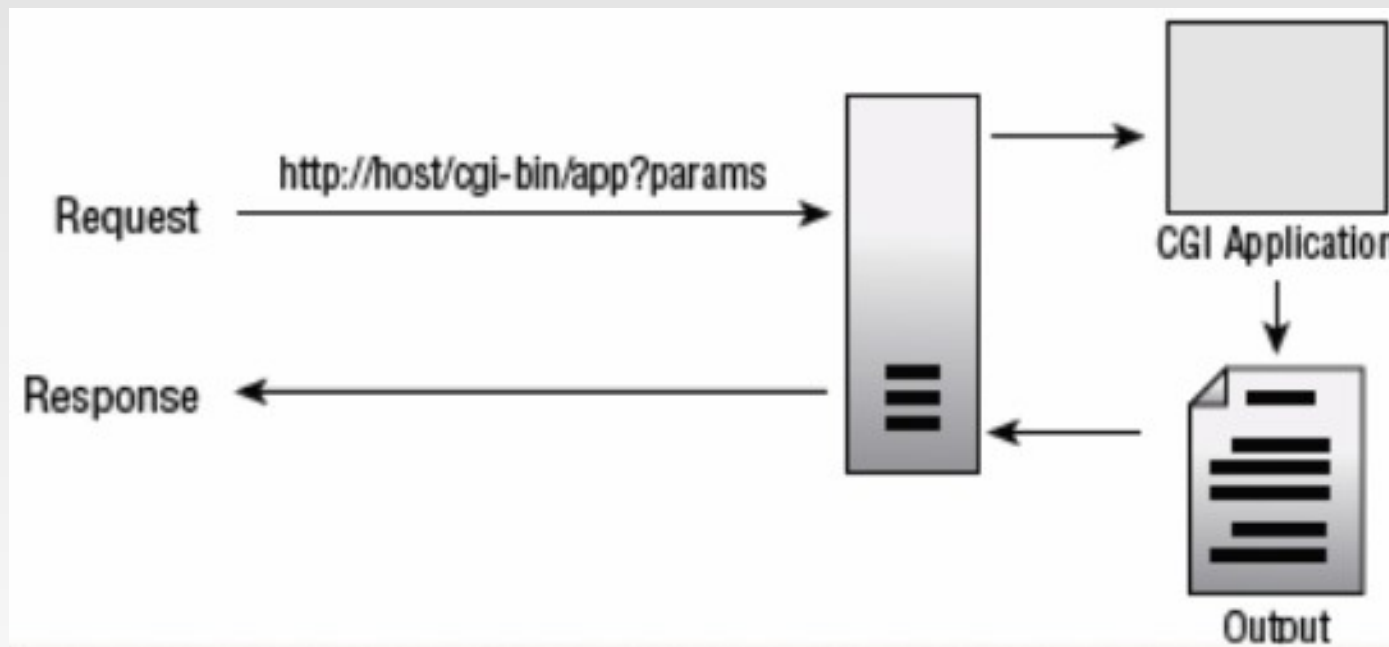
Backend

Componentes

- **HTML:** Estructura de la **UI**
- **CSS:** Aspecto/estilo de la **UI**
- **JavaScript:** Comportamiento de la **UI**
- **NodeJS, RoR, ... :** **Lógica** de la aplicación
- **Base de datos:** **Persistencia** de datos
- **REST API:** **Interactuar** con otras aplicaciones

¿Cómo evolucionaron las aplicaciones web?

Common Gateway Interface (CGI)



Dynamic Page

