Crear aplicaciones interactivas

Muy fácil de implementar

Cambios sobre páginas web sin necesidad de hacer recargas o peticiones HTML

incrementa la interacción y se dice que utiliza una petición asíncrona para no afectar el funcionamiento de la página

Se creó en 2005 por la necesidad de realizar aplicación web dinámicas ya que antes se necesitaba recargar toda la página, incluyendo datos estáticos

Ventajas

Mejora la experiencia del usuario

Se optimizan los recursos

Alta compatibilidad

Desventajas

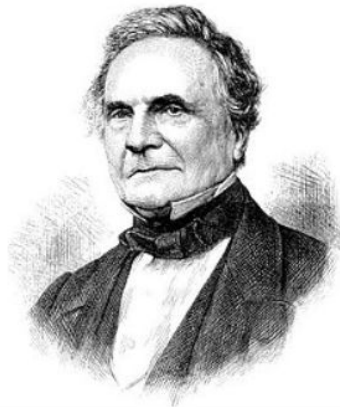Los cambios no son persistentes

Dificultad media

Se deben hacer muchas peticiones para volver a llegar a un punto específico

Learn more about Babbage

Considered by some to be a "father of the computer", Babbage is credited with inventing the first mechanical computer that eventually led to more complex electronic designs, though all the essential ideas of modern computers are to be found in Babbage's Analytical Engine. His varied work in other fields has led him to be described as "pre-eminent" among the many polymaths of his century. Parts of Babbage's incomplete mechanisms are on display in the Science Museum in London. In 1991, a functioning difference engine was constructed from Babbage's original plans. Built to tolerances achievable in the 19th century, the success of the finished engine indicated that Babbage's machine would have worked.

```html
index.html > ⊘ html
1   <!DOCTYPE html>
2   <html>
3
4   <head>
5       <meta charset='utf-8'>
6       <meta http-equiv='X-UA-Compatible' content='IE=edge'>
7       <title>AJAX Example</title>
8       <meta name='viewport' content='width=device-width, initial-scale=1'>
9       <link rel='stylesheet' type='text/css' media='screen' href='index.css'>
10      <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
11      <script src='index.js'></script>
12
13  </head>
14
15  <body>
16      <div class="center">
17          <img src="https://upload.wikimedia.org/wikipedia/commons/thumb/8/82/CharlesBabbage.jpg/220px-CharlesBabbage.jpg" alt="Charles Babbage">
18          <div>
19              <button id="request">Learn more about Babbage</button>
20              <div id="bio"></div>
21          </div>
22      </div>
23      <script type="text/javascript" src="./index.js"></script>
24  </body>
25
26  </html>
```

```css
index.css > button
1   .center {
2       text-align: center;
3   }
4
5   button {
6       margin: 0 auto;
7   }
```

```javascript
JS index.js > ...
1   $btn = $('#request');
2   $bio = $('#bio');
3
4   $btn.on('click', function() {
5       $(this).hide();
6       $bio.load('bio.txt', completeFunction);
7   });
8
9   function completeFunction(responseText, textStatus, request) {
10      $bio.css('border', '1px solid #e8e8e8');
11      if (textStatus == 'error') {
12          $bio.text('An error ocurred during your request: ' + request.status + ' ' + request.textStatus);
13      }
14  }
```