

jQuery

Stats

- 7040 from top 10k
- 73298 from top 100k
- 756298 from top 1m



Why

- SEO.
- Simple.
- Faster.
- Light.
- Cross-browser compatible.
- Easy to learn.
- JavaScript frameworks use jQuery.



Inserting in Vanilla JavaScript

```
var div = document.createElement('div');  
div.innerHTML = "Hello World";  
var parent = document.getElementById("parent");  
parent.appendChild(div);
```

Inserting in jQuery

```
$('#parent').append("<div>Hello World</div>");
```

\$



Selectors

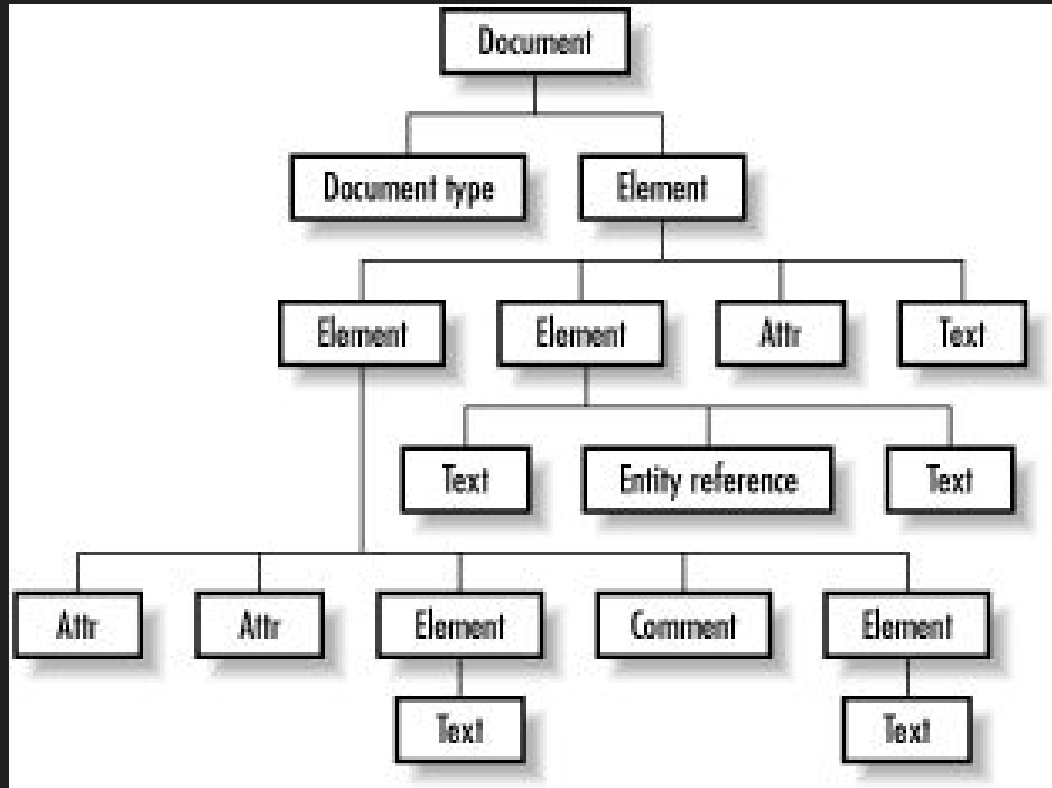
`$("tag")`

`$(".class")`

`$("#id")`

Family

- parent()
- parents()
- prev()
- children()
- find()
- sibling()



Challenges

- Removing a class from one element and adding it to another.
 - `toggleClass()` and `next()`
- Add a reference to the first link
 - `first()` and `attr()`
- Increase the font size of every article item
 - `.css()`
- Find the difference between `.text()` and `.html()`

Events

```
$('#input').on('change', function() {  
  
});
```

<http://api.jquery.com/category/events/>

Iterating over elements

```
$('.p').each(function(index) {  
    var text = $(this).text();  
    $(this).append(text.length);  
});
```

DOM is built

```
$( document ).ready(function() {  
    console.log( "ready!" );  
});
```

```
1 | $(function() {  
2 |     // Document is ready  
3 | });
```

Browser events

- Moving mouse.
- Submitting a form.
- Hovering over an element.
- Pressing a key.
- Scrolling in the browser.

monitorEvents(\$0)

More events

<https://developer.mozilla.org/en-US/docs/Web/Events#Categories>

Working with events

1. Target to listen to.
2. Event that will be triggered.
3. Actions that will be taken after the trigger.


```
$('#input').on('change', function() {  
  
});
```

Set up an event listener

- Listen to `#input` element.
- Listen for a `keypress` event.
- Print in the console something!

Set up an event listener

- Listen to .featured element.
- Listen for a click event
- Perform the following actions
 - Remove the featured element from the DOM
 - Add success class to the body

The event object

```
$(document).on('click', function(e) {  
    console.log(e.pageX, e.pageY);  
});
```

UI Events

- load
- error
- select

Focus Events

- `focus`
- `focusout`
- `focusin`

Mouse events

- `onclick`
- `onmousedown`
- `onmousemove`
- `onmouseout`

And more

- Input events
- Scroll events
- Keyboard events
- Interface Composition events.
- Composition events.

Convenience Methods

```
$('#input').on('keypress', function() {  
    console.log("Key was pressed");  
});
```

```
$('#input').keypress(function() {  
    console.log("Key was pressed: v2");  
});
```

```
$.getJSON("test.json", function(data) {  
    console.log(data);  
});
```

Is this ok?

```
$( 'article' ).on( 'click', function() {  
    $( 'body' ).addClass( 'selected' );  
});
```

```
$( 'body' ).append( '<article> <h1>Appended Article</h1> <p>Content for the new a  
rticle </p> </article>' );
```

Event propagation or bubbling

```
1 <html>
2 <body>
3 <div id="container">
4   <ul id="list">
5     <li><a href="http://domain1.com">Item #1</a></li>
6     <li><a href="/local/path/1">Item #2</a></li>
7     <li><a href="/local/path/2">Item #3</a></li>
8     <li><a href="http://domain4.com">Item #4</a></li>
9   </ul>
10 </div>
11 </body>
12 </html>
```

Event propagation or bubbling

Event propagation or bubbling

```
1 // Attach a delegated event handler
2 $( "#list" ).on( "click", "a", function( event ) {
3     var elem = $( this );
4     if ( elem.is( "[href^='http']" ) ) {
5         elem.attr( "target", "_blank" );
6     }
7 });
```