

jQuery

What is jQuery and why it is used?

jQuery is a lightweight, "write less, do more", JavaScript library. The purpose of **jQuery** is to make it much easier to use JavaScript on your website. **jQuery** takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.

What does jQuery mean?

jQuery is a JavaScript library that allows web developers to add extra functionality to their websites. It is open source and provided for free under the MIT license. ... **jQuery** can also work with Ajax code and scripting languages, such as PHP and ASP to access data from a database.

What is difference between JavaScript and jQuery?

The main **difference** among the three is that **JavaScript** is client-side, i.e., **in the** browser scripting language, whereas **jQuery** is a library (or framework) built with **JavaScript**. ... At the same time, **jQuery** is a **JavaScript** framework that makes life easier for people who want to program for the browser.

What are the features of jQuery?

Features of jQuery are :

- Effects and **animations**.
- Ajax.
- Extensibility.
- DOM element selections functions.
- Events.
- CSS manipulation.
- Utilities - such as browser version and the each function.
- JavaScript Plugins.

What is traversing methods in jquery?

With **jQuery traversing**, you can easily move up (ancestors), down (descendants) and sideways (siblings) in the tree, starting from the selected (current) element. This movement is called **traversing** - or moving through - the DOM tree.

What are the jQuery events?

Commonly Used jQuery Event Methods

- `click()` The `click()` method attaches an event handler function to an HTML element. ...
- `dblclick()` The `dblclick()` method attaches an event handler function to an HTML element. ...

How can use two events in jQuery?

You can **use** `bind` method to attach function to several **events**. Just pass the **event** names and the handler function as in this code: `$('#foo').bind('mouseenter mouseleave', function() { $(this).`

What are jQuery effects?

jQuery enables us to add **effects** on a web page. **jQuery effects** can be categorized into fading, sliding, hiding/showing and animation **effects**. **jQuery** provides many methods for **effects** on a web page.

What is XML Element?

XML elements can be defined as building blocks of an XML. Elements can behave as containers to hold **text**, elements, **attributes**, **media objects** or all of these. Each XML document contains one or more elements, the **scope** of which are either delimited by start and end tags, or for empty elements, by an empty-element tag.

What is element and attribute in XML?

Attributes are part of **XML elements**. An **element** can have multiple unique **attributes**. **Attribute** gives more information about **XML elements**. To be more precise, they define properties of **elements**. An **XML attribute** is always a name-value pair.

What is jQuery chaining?

However, there is a technique called **chaining**, that allows us to run multiple **jQuery** commands, one after the other, on the same element(s).

What is jQuery in HTML?

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like **HTML** document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers.

What is jQuery in CSS?

The `css()` method sets or returns one or more style properties for the selected elements.

What is Dom traversing in jQuery?

jQuery traversing, which means "move through", are used to "find" (or select) HTML elements based on their relation to other elements. ... With **jQuery traversing**, you can easily move up (ancestors), down (descendants) and sideways (siblings) in the tree, starting from the selected (current) element.

What is DOM traversal?

The Document Object Model (**DOM**) is a standard convention for accessing and manipulating elements within HTML and XML documents. Elements in the **DOM** are organized into a tree-like data structure that can be traversed to navigate, locate, or modify elements and/or content within an XML/HTML document.

What is jQuery Ajax?

AJAX is an acronym standing for Asynchronous JavaScript and XML and this technology helps us to load data from the server without a browser page refresh. ... **jQuery** is a great tool which provides a rich set of **AJAX** methods to develop next generation web application.

What is noConflict in jQuery?

Definition and Usage. The `noConflict()` method releases **jQuery's** control of the `$` variable. This method can also be used to specify a new custom name for the **jQuery** variable. Tip: This method is useful when other JavaScript libraries use the `$` for their functions.

XML

What is XML?

XML, or Extensible Markup Language, is a markup language that you can use to create your own tags. It was created by the World Wide Web Consortium (W3C) to overcome the limitations of HTML, the Hypertext Markup Language that is the basis for all Web pages. **XML** was designed with the Web in mind

What is XML used for?

An **XML** file is an extensible markup language file, and it is **used** to structure data for storage and transport. In an **XML** file, there are both tags and text. The tags provide the structure to the data.

What is XML tree structure?

XML documents have a hierarchical **structure** and can conceptually be interpreted as a **tree structure**, called an **XML tree**.

What is XML syntax rules?

All **XML** elements must have a closing tag. All **XML** elements must be properly nested. All **XML** documents must have a root element. Attribute values must always be quoted.

What is an XML attribute?

Attributes are part of **XML** elements. An element can have multiple unique **attributes**. **Attribute** gives more information about **XML** elements. ... An **XML attribute** is always a name-value pair.

Can attributes have multiple values in XML?

attributes cannot contain **multiple values** (elements **can**) **attributes** cannot contain tree structures (elements **can**) **attributes** are not easily expandable (for future changes)

What is XML NameSpace?

XML Namespace is a mechanism to avoid name conflicts by differentiating elements or attributes within an XML document that may have identical names, but different definitions.

What is DTD in XML?

DTD stands for Document Type Definition. A **DTD** defines the structure and the legal elements and attributes of an **XML** document.

What is XML Schema?

XML Schema is commonly known as **XML Schema Definition (XSD)**. It is used to describe and validate the structure and the content of **XML** data.

What is XSLT?

XSLT (Extensible Stylesheet Language Transformations) is a language for transforming XML documents into other XML documents, or other formats such as HTML for web pages, plain text or XSL Formatting Objects, which may subsequently be converted to other formats, such as PDF, PostScript and PNG.

JSON

What is JSON?

JSON — short for JavaScript Object Notation — is a format for sharing data. As its name suggests, **JSON** is derived from the JavaScript programming language, but it's available for use by many languages including Python, Ruby, PHP, and Java. **JSON** is usually pronounced like the name “Jason.”

What is true JSON syntax?

Answer. The **JSON syntax** is a subset of the JavaScript **syntax**. **JSON** data is written as name/value pairs.

Is the syntax to read JSON data?

JSON uses JavaScript **syntax**, but the **JSON** format is text only. Text can be **read** and used as a **data** format by any programming language. The **JSON** format was originally specified by Douglas Crockford.

HTML5

What is HTML5?

HTML5 is the fifth revision and newest version of the HTML standard. It offers new features that provide not only rich media support but also enhance support for creating web applications that can interact with users, their local data, and servers more easily and effectively than was previously possible

Element of HTML5?

The semantic elements added in HTML5 are:

- `<article>`
- `<aside>`
- `<details>`
- `<figcaption>`
- `<figure>`
- `<footer>`
- `<header>`
- `<main>`

Semantic tag in HTML5?

HTML5 semantic tags define the purpose of the element. By using **semantic** markup, you help the browser understand the meaning of the content instead of just displaying it. By providing this extra level of clarity, **HTML5 semantic** elements also help search engines

What is canvas in HTML5?

The HTML `<canvas>` element is used to draw graphics on a web page.

What is HTML5 canvas used for?

According to the **HTML5** specification, the **CANVAS** element is: "...a resolution-dependent bitmap **canvas**, which can be **used for** rendering graphs, game graphics, art, or other visual images on the fly." The **CANVAS** element lets you draw graphs, graphics, games, art, and other visuals right on the web page in real-time.

What is html5 How do we implement application cache in it?

Introduction. **HTML5** provides an **application caching** mechanism that lets web **applications** run offline. This **Application Cache** (AppCache) interface lists resources that browsers should **cache to** be available offline. **Applications** that **are cached** load and work correctly offline, even if users press the Refresh button.

What is HTML SSE?

The type of events which are flowing from web browser to the web server may be called client-sent events. Along with HTML5, WHATWG Web Applications 1.0 introduces events which flow from web server to the web browsers and they are called Server-Sent Events (**SSE**).

CSS3

What is CSS3?

Cascading Style Sheets Level 3 (**CSS3**) is the iteration of the **CSS** standard used in the styling and formatting of Web pages. **CSS3** incorporates the CSS2 standard with some changes and improvements. A key change is the division of standard into separate modules, which makes it easier to learn and understand.

What is css3 used for?

It is **used** with HTML to create content structure, with **CSS3** being **used** to format structured content. It is responsible for font properties, colors, text alignments, graphics, background images, tables and other components.

What is Round Corners in CSS3?

The CSS `border-radius` property defines the radius of an element's corners.

CSS Rounded Corners

1. Tip: This property allows you to add **rounded corners** to elements! ...
2. Four values - border-radius: 15px 50px 30px 5px; (first value applies to top-left **corner**, second value applies to top-right **corner**, third value applies to bottom-right **corner**, and fourth value applies to bottom-left **corner**):

Can we apply image to border in css3?

The **CSS border-image** property allows you to specify an **image** to be used instead of the normal **border** around an element. The property has three parts: The **image** to use as the **border**.

What is gradient css3?

Gradients are **CSS** elements of the image data type that show a transition between two or more colors. These transitions are shown as either linear or radial.

How do you add shadow to elements in css3?

The **box-shadow** **CSS** property adds **shadow** effects around an **element's** frame. You can set multiple effects separated by commas. A box **shadow** is described by X and Y offsets relative to the **element**, blur and spread radius, and color.

What is transform in CSS3?

The `transform` property applies a 2D or 3D transformation to an element. This property allows you to rotate, scale, move, skew, etc., elements.

What is transition in css3?

CSS transitions provide a way to control animation speed when changing **CSS** properties.

How do you add transition effects in css3?

To **make the transition** occur, you must specify at least two things — the name of the **CSS** property to which you want to apply the **transition effect using** the **transition-property** **CSS** property, and the duration of the **transition effect** (greater than 0) **using** the **transition-duration** **CSS** property.

How do you transition and transform in CSS?

Transitions are the grease in the wheel of **CSS transforms**. Without a **transition**, an element being transformed would change abruptly from one state to another. By applying a **transition** you can control the change, making it smooth and gradual.

What are CSS Animations?

An animation lets an element gradually change from one style to another.

You can change as many CSS properties you want, as many times you want.

To use CSS animation, you must first specify some keyframes for the animation.

Keyframes hold what styles the element will have at certain times.

What is responsive design testing?

The **Responsive design test** means **testing** the **website** or URL from different devices. Practically, it is not possible to **test** the **responsive website** completely because to do so we need to set up various systems for various screen sizes.

What is Parallax?

Parallax scrolling is a web site trend where the background content (i.e. an image) is moved at a different speed than the foreground content while scrolling. Click on the links below to see the difference between a website with and without parallax scrolling.

How To Create a Parallax Scrolling Effect

Use a container element and add a background image to the container with a specific height. Then use the `background-attachment: fixed` to create the actual parallax effect. The other background properties are used to center and scale the image perfectly:

What is Responsive Web Design?

Responsive web design makes your web page look good on all devices.

Responsive web design uses only HTML and CSS.

Responsive web design is not a program or a JavaScript.

What is The Viewport?

The viewport is the user's visible area of a web page.

The viewport varies with the device, and will be smaller on a mobile phone than on a computer screen. Before tablets and mobile phones, web pages were designed only for computer screens, and it was common for web pages to have a static design and a fixed size.

Then, when we started surfing the internet using tablets and mobile phones, fixed size web pages were too large to fit the viewport. To fix this, browsers on those devices scaled down the entire web page to fit the screen.

What is a Grid-View?

Many web pages are based on a grid-view, which means that the page is divided into columns:

Using a grid-view is very helpful when designing web pages. It makes it easier to place elements on the page.

A responsive grid-view often has 12 columns, and has a total width of 100%, and will shrink and expand as you resize the browser window.

Building a Responsive Grid-View

Lets start building a responsive grid-view.

First ensure that all HTML elements have the `box-sizing` property set to `border-box`. This makes sure that the padding and border are included in the total width and height of the elements.

What is a Media Query?

Media query is a CSS technique introduced in CSS3.

It uses the `@media` rule to include a block of CSS properties only if a certain condition is true.

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