New Elements in HTML5

Below is a list of the new HTML5 elements, and a description of what they are used for.

New Semantic/Structural Elements

HTML5 offers new elements for better document structure:

|  |  |
| --- | --- |
| **Tag** | **Description** |
| <article> | Defines an article in the document |
| <aside> | Defines content aside from the page content |
| <bdi> | Defines a part of text that might be formatted in a different direction from other text |
| <details> | Defines additional details that the user can view or hide |
| <dialog> | Defines a dialog box or window |
| <figcaption> | Defines a caption for a <figure> element |
| <figure> | Defines self-contained content, like illustrations, diagrams, photos, code listings, etc. |
| <footer> | Defines a footer for the document or a section |
| <header> | Defines a header for the document or a section |
| <main> | Defines the main content of a document |
| <mark> | Defines marked or highlighted text |
| <menuitem> | Defines a command/menu item that the user can invoke from a popup menu |
| <meter> | Defines a scalar measurement within a known range (a gauge) |
| <nav> | Defines navigation links in the document |
| <progress> | Defines the progress of a task |
| <rp> | Defines what to show in browsers that do not support ruby annotations |
| <rt> | Defines an explanation/pronunciation of characters (for East Asian typography) |
| <ruby> | Defines a ruby annotation (for East Asian typography) |
| <section> | Defines a section in the document |
| <summary> | Defines a visible heading for a <details> element |
| <time> | Defines a date/time |
| <wbr> | Defines a possible line-break |

New Form Elements

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| --- | --- |
| **Tag** | **Description** |
| <datalist> | Defines pre-defined options for input controls |
| <keygen> | Defines a key-pair generator field (for forms) |
| <output> | Defines the result of a calculation |

New Input Types

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| --- | --- |
| New Input Types | New Input Attributes |
| * color * date * datetime * datetime-local * email * month * number * range * search * tel * time * url * week | * autocomplete * autofocus * form * formaction * formenctype * formmethod * formnovalidate * formtarget * height and width * list * min and max * multiple * pattern (regexp) * placeholder * required * step |

HTML5 - New Attribute Syntax

HTML5 allows 4 different syntaxes for attributes.

This example demonstrates the different syntaxes used in an <input> tag:

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| **Type** | **Example** |
| Empty | <input type="text" value="John Doe" **disabled**> |
| Unquoted | <input type="text" **value=John**> |
| Double-quoted | <input type="text" **value="John Doe"**> |
| Single-quoted | <input type="text" **value='John Doe'**> |

In HTML5, all 4 syntaxes may be used, depending on what is needed for the attribute.

HTML5 Graphics

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| --- | --- |
| **Tag** | **Description** |
| <canvas> | Defines graphic drawing using JavaScript |
| <svg> | Defines graphic drawing using SVG |

New Media Elements

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| --- | --- |
| **Tag** | **Description** |
| <audio> | Defines sound or music content |
| <embed> | Defines containers for external applications (like plug-ins) |
| <source> | Defines sources for <video> and <audio> |
| <track> | Defines tracks for <video> and <audio> |
| <video> | Defines video or movie content |