Grouping, Validation, Styles

For Layouts and Standards

Two Kinds of Elements

1. Block

2. Inline

Block Elements

Block-level elements always start on a new line.

Examples of these include <h1> and <p>.

Inline Elements

These sit inside block-level elements and don't start on a new line. Examples include <b>, <em>, and <img>.

Elements to group elements

1. Div (block)

2. Span (inline)

```
<div>

    <p>All other elements you may have coded in</p>

</div>
```

```html
<div>

    <p>I want this <span>styled</span> in a way
only CSS can</p>

</div>
```

Validation

Websites need validation to be certain they conform to international standards. These standards ensure a consistent look and behavior across computers worldwide.

Evolution of Web Standards

- HTML 4 (1997) – introduced <center>, <font>, and <strike> tags. All those are deprecated now.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
```

- XHTML 1 (2000) – every element should have a closing tag

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

Evolution of Web Standards

- HTML 5 (2000) – introduces new elements for video and audio. Momentum started 2006. Did not become widespread until 2009+

- <!DOCTYPE html>

DOCTYPE

The doctype tag is always placed at the start and tells the browser what standard to use.

```
<!DOCTYPE html>
```

Page Language

When submitting pages for validation, it is recommended to have a language attribute in the HTML tag.

`<html lang="en">`

W3C® Markup Validation Service

Check the markup (HTML, XHTML, ...) of Web documents

Validate by URI   Validate by **File Upload**   Validate by **Direct Input**

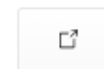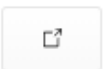## Validate by URI

Validate a document online:

Address: [_____]

▸ More Options

(Check)

This validator checks the markup validity of Web documents in HTML, XHTML, SMIL, MathML, etc. If you wish to validate specific content such as RSS/Atom feeds or CSS stylesheets, MobileOK content, or to find broken links, there are other validators and tools available. As an alternative you can also try our non-DTD-based validator.

I ♥ VALIDATOR

The W3C validators rely on community support for hosting and development.
Donate and help us build better tools for a better web.

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This service runs the W3C Markup Validator, v1.3+hg.

W3C®   open source™   I ♥ VALIDATOR

https://validator.w3.org

W3C = World Wide Web Consortium

The World Wide Web Consortium (W3C) is an international community that develops open standards to ensure the long-term growth of the Web.

All elements have these attributes

- id – for identification of an element in a page, unique

- class – for classification as to what style should be applied for a set of elements

- style – for directly applying CSS styles to page elements, rules separated by semicolons ;