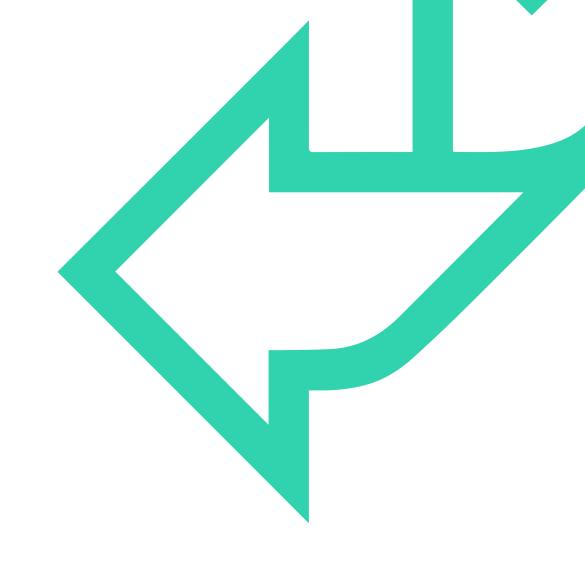


HTML

Basics and Syntax





LEARNING OBJECTIVES



• HTML History and Syntax







HTML 2.0

- Application of Standard Generalized Markup Language (SGML)
- Attempted to update the standard

HTML 3.0 (Obsolete)

Netscape and Microsoft ad-hoc extensions

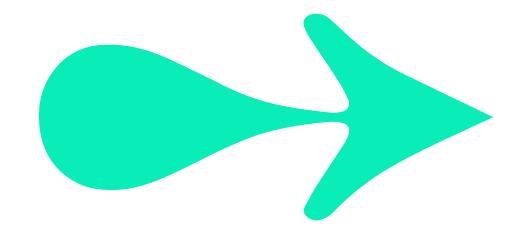
HTML 3.2

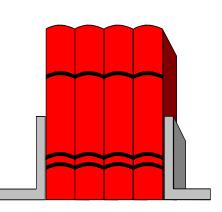
HTML 4.01

• Includes Cascading Style Sheets(CSS), DOM, scripting, XML and many other features

HTML 5

- The current W3C standard
- 5.2 now a recommendation available at http://www.w3.org/TR/html5/





QA A Simple HTML Page

Three sections to an HTML document

 Prolog (document type declaration), head and body

HTML tags appear in angle brackets (< and >)

- Many tags appear in pairs, acting as containers
- Names are not case sensitive (convention is lower-case)
- Carriage returns are not significant

```
<!DOCTYPE html>
<html>
<head>
     <title>Success!</title>
</head>
<body>
Congratulations on completing
your QA Training course.
</body>
</html>
```

QA HTML versions & DTDs

The different versions of HTML have their own DTD

• The appropriate DTD should be included in the HTML prologue

HTML 4 Strict

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0//EN" "http://www.w3.org/TR/html4/strict.dtd">

HTML 4 Transitional

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"
"http://www.w3.org/TR/REC-html4/loose.dtd">
```

HTML 5

<!DOCTYPE html>

QA Attributes of Tags

Many tags have additional attributes

• Some are required

Some are optional

Attribute values should be enclosed in quotes

- Not necessary if one word attribute value
- Good practice

QA Comments

- Use <!-- and --> to enclose comments
- Not displayed by browser
- Can be used to hide scripts/styles from older browsers

```
<html>
<html>
<head><title>Success!</title></head>
<body>
<!--A demo that comments can be used to clarify HTML -->
Congratulations on completing your <strong>QA Training</strong> course.<br/>
</body>
</html>
```

Q^ Container Tags

Containers may be nested but may not overlap

```
<!-- This is correct -->
This text is a paragraph containing <b>bold</b> and
<i>i>italic</i> text. Some words are both <b><i>bold and
italic</i>
<!-- This is incorrect -->
The <b>quick brown <i>fox</b> jumps over the</i> lazy
dog.
```

QA Special Characters

- How can we express characters like "<" and ">"?
- Use character entities

Character	HTML Name
<	<
>	>
&	&
11	"
(non-breaking space)	

```
If the relative density > 1.0 then
"you have a problem! "

If the relative density > 1.0 then "you have a problem!"
```

QASyntax Errors and Non-Standard HTML

Browsers never say "syntax error"

May respond in different ways to incorrect HTML

Browsers ignore unrecognised tags and attributes

Allows updating of HTML standards

Non Standard HTML:

Blink

<blink>Blinking text</blink> can be annoying,

Marquee (Still works in many browsers)

<marquee>This message will scroll

Not recommended as they could be removed at any time



Quick Lab 1 – Visual Studio Code

Demonstration

- Open files in VS Code
- Install Live server