

{ POWER.CODERS }


HTML best practice

AGENDA

This class will be a combination of theory + practice

- Quiz
- History and terminology
- Project best practice
- Semantics and boilerplate
- Ressources and online material
- Exercises
- Appendix: More about domains

QUIZ



What is HTML?

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> HyperText Markup Language

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- > HTML is composed of **tags** that together provide a **blueprint** for a webpage.

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- > HTML is composed of **tags** that together provide a **blueprint** for a webpage.
- > **Hypertext** is a text enriched with hyperlinks.
- > **Markup language** uses **tags** to define the page layout and elements within the page. It is human-readable.

QUIZ



What are a few different HTML tags?

QUIZ

Which tag is used to create a link to another page?

1. `<l>`

2. `<link>`

3. `<a>`

4. `<p>`

QUIZ

What is a container element compared to a stand alone element?

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Container Element

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Stand Alone Element

- An element that cannot contain anything else, like `
` and ``.

QUIZ

What are the two tags that nest directly within the `<html>` tags?

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`>` `<head>`

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What are the two tags that nest directly within the `<html>` tags?

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`> <body>`

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Comments can be used to organize your code into sections so you (or someone else) can easily understand your code. It can also be used to 'comment out' large chunks of code to hide it from the browser.

QUIZ



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If a file is part of the same web site, then a **relative URL** can be used. This can be only the name of the file.

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What is a relative path versus an absolute path?

If a file is part of the same web site, then a **relative URL** can be used. This can be only the name of the file.

If the file is located on another website, an **absolute URL** must be used. Absolute URLs contain the entire domain name and path.

EXAMPLES

```
<!-- Relative URLs -->
```

```
<a href="image-gallery.html">Image Gallery</a>
```

```
<a href="blog/first-blog-entry.html">My First Blog Entry</a>
```

```
<a href="../image-gallery.html">Back to Image Gallery</a>
```

```
<!-- Absolute URLs -->
```

```
<a href="http://www.my-colleague.com/blog.html">Blog of a Colleague</a>
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```

- Inside the same folder we just use the filename, for example `portrait.jpg`.
- Two dots (`..`) refer to the parent directory.
- If we want to start in the root directory we add an `/` before the path of the file, for example `/portrait.jpg`.

QUIZ

What does a complete link (anchor) element look like?

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```
<a href="http://google.com/" target="_blank">This goes to google</a>
```

QUIZ



What does block-level and inline elements mean?

QUIZ

What does block-level and inline elements mean?

Block-level elements

- > start in a new line
- > take up the full width of the page
- > e.g. `<h1-6>`, `<p>`, `
`

Inline elements

- > do not start in a new line
- > only take up the necessary width
- > e.g. `<a>`, ``, ``

QUIZ

What is an attribute? Explain and list some examples.

QUIZ

What is an attribute? Explain and list some examples.

- An attribute provided additional information about the HTML element
- It is placed inside an opening tag, before the right angle bracket
- Examples: class, id, style, src, href, ...

QUIZ



What is a HTML entity?

QUIZ

What is a HTML entity?

- > **special** characters: like accent marks and German umlaut, e.g. `ü`
- > **invisible** characters: like non-breaking spaces, e.g.
- > **reserved** characters: which would be interpreted as HTML code, e.g. `<`

OFTEN USED ENTITIES

> non-breakable space = ` `;

> – = `–`;

> — = `—`;

> © = `©`;

> ¼ = `¼`;

> ½ = `½`;

> ¾ = `¾`;

> « = `«`;

> » = `»`;

> ä = `ä`;

> Ü = `Ü`;

> é = `é`;

> è = `è`;

> ← = `←`;

> ↑ = `↑`;

> → = `→`;

> ↓ = `↓`;

More entities

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HISTORY AND TERMINOLOGY



HISTORY OF HTML

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- HTML 5 in 2014

TERMS

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- **Web design:** The process of planning, structuring and creating a website
- **Web development:** The process of programming dynamic web applications
- **Front end:** The outwardly visible elements of a website or application
- **Back end:** The inner workings and functionality of a website or application.

PROJECT BEST PRACTICE



DEFINTION OF BEST PRACTICE



DEFINTION OF BEST PRACTICE

A **method** or **technique** that has been **generally accepted as superior** to any alternatives because it produces results that are superior to those achieved by other means or because it has become **a standard way of doing things**.

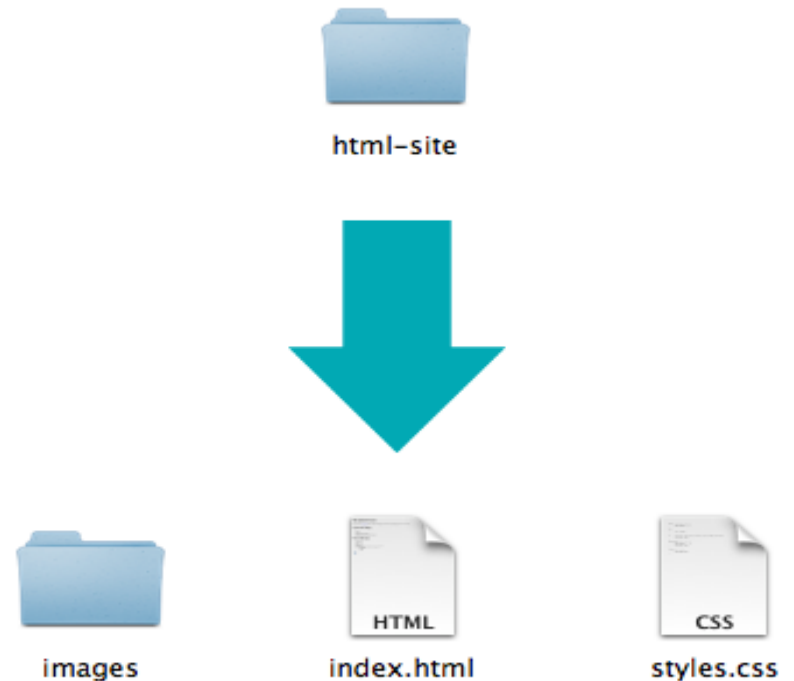
FOLDER STRUCTURE

All the files for your site should be stored within the same folder.

This includes:

- > HTML Files
- > CSS Files
- > Images
- > Script files
- > Anything else that will appear on your site

Note: File names should not include spaces or special characters. File names ARE case sensitive.



NAMING FOLDERS + FILES

- > Name your file `index.html`
- > In file and folder names, only use lowercase letters, numbers, hyphens/dashes.
- > File names are usually case sensitive: `INDEX.html` vs. `index.html`
- > Use the right extension: `.html` vs `.css` vs `.js`

TIPS + SHORTCUTS

After each opening tag, the next element should be indented with a `tab` for better overview. Make sure you follow this habit.

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After each opening tag, the next element should be indented with a `tab` for better overview. Make sure you follow this habit.

| Action | Windows | Mac |
|----------------|-----------|---------|
| VSCode, save | Ctrl + s | ⌘ + s |
| VSCode, undo | Ctrl + z | ⌘ + z |
| Switch apps | Alt + Tab | ⌘ + Tab |
| Chrome, reload | Ctrl + r | ⌘ + r |

A WELL DEVELOPED WEBSITE

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- > is **accessible** for disabled people

ANATOMY OF A WEBSITE

Your Content

+ HTML: Structure

+ CSS: Presentation

= Your Website

SEMANTICS



SEMANTIC MARKUP

Definition **semantics**:

SEMANTIC MARKUP

Definition semantics:

The meaning of a word, phrase or text.

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Definition semantics:

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Definition semantic web:

SEMANTIC MARKUP

Definition **semantics**:

The meaning of a word, phrase or text.

Definition **semantic web**:

Information is given a well-defined meaning, better enabling computers and people to work in cooperation.

AN EXAMPLE



The quick brown fox jumps over the lazy dog.

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➤ = English-language pangram (contains all letters of the English alphabet)

AN EXAMPLE

The quick brown fox jumps over the lazy dog.

- = English-language pangram (contains all letters of the English alphabet)
- Can you see it in your mind?



NOW IMAGINE



The quick brown **thing** jumps over the lazy **thing**.

NOW IMAGINE

The quick brown **thing** jumps over the lazy **thing**.

What do you see?

Now IMAGINE

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What do you see?

Every time you use a `div` or `span`, you tell the browser:
"There's a thing".

Now IMAGINE

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Every time you use a `div` or `span`, you tell the browser:
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And the browser asks, **"What kind of thing?"**

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"There's a thing".

And the browser asks, **"What kind of thing?"**

Non-graphical browsers and bots do not see how the website looks like. They need the tags to know the meaning of the content.

ADVANTAGES OF SEMANTICS



ADVANTAGES OF SEMANTICS

> easier to explain

ADVANTAGES OF SEMANTICS

- > easier to explain
- > easier to understand

ADVANTAGES OF SEMANTICS

- > easier to explain
- > easier to understand
- > faster to process

ADVANTAGES OF SEMANTIC WEB

ADVANTAGES OF SEMANTIC WEB

> more searchable content

ADVANTAGES OF SEMANTIC WEB

- > more searchable content
- > better search engine ranking

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- better search engine ranking
- less clutter of meaningless HTML
- less errors in source code and more performant
- better accessible for assistive technologies, like screen readers

QUICK WORD TO HISTORY



When you google **semantic web**, you will find the term often in relation with **HTML 5**.

QUICK WORD TO HISTORY

When you google **semantic web**, you will find the term often in relation with **HTML 5**.

A lot of new semantic tags were introduced in 2014 with HTML 5, but HTML was from the beginning a **language with semantic tags and meaning**.

SEMANTIC HTML

Always use the tags best describing the content:

SEMANTIC HTML

Always use the tags best describing the content:

- > `<h1>` for headlines
- > `<h2-6>` for sub headlines
- > `` for unordered lists
- > `` for ordered lists
- > `<table>` for complex data

SEMANTIC BLOCK-LEVEL TAGS

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HEADLINES

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Use hierarchical order of headlines, e.g.:

- > `<h1>` in the `<header>`
- > `<h2>` in the `<section>`
- > `<h3>` in the `<article>`

Each article should contain at least 1 headline.

Each page should only have 1 `<h1>`-tag.

SECTION IN ARTICLES



You can group articles in a section, e.g. news items within the section **news**.

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You can also have several sections within one article, if needed.

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Can you think of an example?

EXERCISE

Go to 2 websites of your choice and write the markup of the homepage.

- Which tags do you use? Why?
- Check your buddy's markup and discuss the choice of tags.

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Done? Now, check the source code of the website.

- What do you see?
- Why?

BOILERPLATE



WHAT IS A BOILERPLATE?



The word "**boilerplate**" means standardized pieces of text for use as clauses in contracts or as part of a computer program.

An HTML boilerplate will contain the most common elements of a page as a sample that can be cloned and used as a starting point for a project.

HTML BOILERPLATE



Let's code our own boilerplate.
What should it contain?

ONE POSSIBILITY



ONE POSSIBILITY

```
<!doctype html>
<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Boilerplate</title>
  </head>
  <body>
    <header>
      <h1></h1>
      <nav>
      </nav>
    </header>
    <main>
      <p></p>
    </main>
```

EXAMPLES OF HTML BOILERPLATES

- > html5boilerplate.com
- > htmlshell.com
- > sitepoint.com
- > initializr.com

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Check them out. Which one do you prefer? Why?

RESSOURCES AND ONLINE MATERIAL

- > Handout: HTML reference sheet
- > When should alt tags be blank?
- > HTML outliner
- > W3C validator

RESSOURCES AND ONLINE MATERIAL

- > Why you should choose article over section
- > HTML 5 Doctor
- > Semantics in HTML 5
- > An introduction to the semantic web
- > The ADA checklist 2019

EXERCISES



EXERCISE 1

Create a website to show off your new skills. Core HTML tags you should be able to include on your page(s):

1. A *nav bar* with a few links that either navigate to other pages or act as anchor tags.
2. A *heading* to signal something important or declare a new section/paragraph.
3. A couple *paragraphs* describing the amazing things you want to share. Remember to use *emphasis* on key words!
4. A *list* of key things to know about something in your paragraph. Why not do an ordered list and unordered list?
5. An *image* of something relevant.
6. A short contact *form*
7. A *table* to display additional contact data
8. A *footer* at the bottom of the page declaring your copyright on such a wonderful write-up, and make sure you use the copyright *symbol*!
9. Your page should validate in this at this link: [W3 Validator](#).
10. Keep your code [readable and maintainable](#) for your future self and future contributors.

Remember: all your exercises go to Github. Use git for regular commits to your github repo.

EXERCISE 2

Draft the semantic outline of a newspaper page in HTML:
tagesanzeiger.ch

- Which semantic tags would you use to describe the homepage?
- Create a HTML outline for a [subpage](#)
- Your page should validate in this at [W3C Validator](#).
- Check your document outline and web semantics with [HTML5 Outliner](#).
- Keep your code readable and maintainable for your future self and future contributors.

Remember: all your exercises go to Github. Use git for regular commits to your github repo.

EXERCISE 3

Start with the HTML skeleton of your project website

- > Be semantic
- > Use comments to explain why you chose specific tags and keep it readable and maintainable
- > Your page should validate in this at [W3C Validator](#).
- > Check your document outline and web semantics with [HTML5 Outliner](#).

APPENDIX: MORE ABOUT DOMAINS

A solid red horizontal line underlining the word 'APPENDIX'.

DOMAIN

Anatomy of domain names:

subdomain.domain.topleveldomain

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subdomain.domain.topleveldomain

- > powercoders.org
- > www.gmail.com
- > calendar.google.com

TOPLEVELDOMAIN (TLD)

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- > .net: "Networking companies"
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As the use of these TLDs isn't restricted, they are used more flexibly than as originally intended.

COUNTRY-CODE TLDs

Each country has its own TLD (ccTLD), and they can decide who can register for domains with that TLD. Some also specify a set of "second-level-domain" for the TLDs.

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Each country has its own TLD (ccTLD), and they can decide who can register for domains with that TLD. Some also specify a set of "second-level-domain" for the TLDs.

> .ch

> .fr

> .it

> .de

> .uk / .co.uk

> ...

NEW gTLDs PROGRAM



Since 2013 new generic TLDs were introduced.
Over a thousand new gTLDs:

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Since 2013 new generic TLDs were introduced.
Over a thousand new gTLDs:

- > thematic: .hotel .bank
- > geographic: .florida .berlin
- > product-related: .toys .yoga
- > specific: .tech .design
- > individual: .codes .ninja
- > ...

WHAT TLD SHOULD YOU GET?

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If you target a particular geographic market, it makes sense to get the ccTLD.

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If you target a particular geographic market, it makes sense to get the ccTLD.

For your own portfolio one of new gTLDs might be best, e.g. `.codes` or `.dev`.

DOMAIN NAMES

The domain name must follow these rules:

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The domain name is not case-sensitive - google.com = GOOGLE.com.

How TO CHOOSE A DOMAIN NAME?



A good domain name follows these guidelines:

HOW TO CHOOSE A DOMAIN NAME?

A good domain name follows these guidelines:

- > Represents your name or business name
- > Short and memorable
- > Easy to say aloud
- > Easy to spell without mistakes
- > Uses ASCII characters
- > Doesn't infringe other's copyright

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A good domain name follows these guidelines:

- Represents your name or business name
- Short and memorable
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- Uses ASCII characters
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But good domain names are often taken. You can try using hyphens (experts-exchange.com) or making a TLD form part of the name (del.icio.us) to make it more likely the name will be available.

SUBDOMAIN



Once you own a domain name, you can make subdomains for different aspects of your product/company, e.g.

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- > `www.twitter.com`
- > `search.twitter.com`
- > `api.twitter.com`

SUBDOMAIN

Once you own a domain name, you can make subdomains for different aspects of your product/company, e.g.

- > `www.twitter.com`
- > `search.twitter.com`
- > `api.twitter.com`

The `www`-Subdomain is the most common. If you type in a domain, e.g. `google.com`, it automatically refers to the `www`-subdomain. Try it yourself.

DOMAIN REGISTRARS



You must use a "domain registrar" to purchase a domain.
Just google "register domain" to find a registrar.

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DOMAIN REGISTRARS

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I register my domains with [Metanet](#).