

# Web Essentials



# Docent



Tom Aertssens

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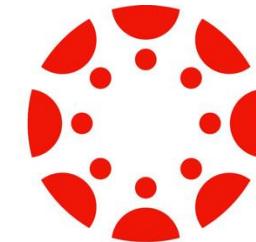
# Studiemateriaal

- ECTS fiche
- Thematische modules in de Canvas-cursus
  - Video-materiaal op maat
  - Presentaties (pdf)
  - **Oefeningen**
- Pluralsight (extern leerplatform)
- Bijkomend lesmateriaal
  - Verwijzingen vanuit de modules en nuttige links

# Canvas

## [canvas.ehb.be: Web Essentials](https://canvas.ehb.be)

- Overzicht leerstof
- Geeft aan wat gekend moet zijn en extras
- Info over evaluatie (examen)
- Verwijzing naar de modules
- Modules
  - Alle lesmateriaal voor dit vak



canvas

# Begeleiding

- Tijdens de lessen
- Op afspraak (Teams)

# Evaluatie

## **Eerste examenkans ,(januari)**

- Permanente evaluatie: 20%
  - schriftelijke evaluatie (buiten de examenweken)
- Praktijkexamen (80%)
  - vaardigheidsproef

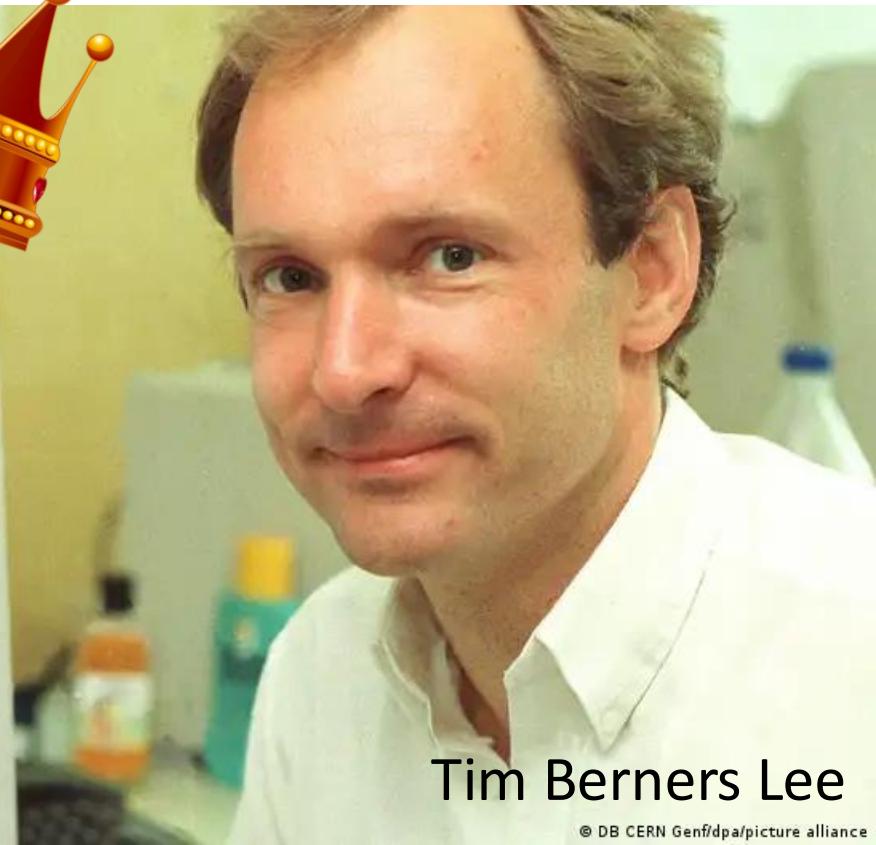
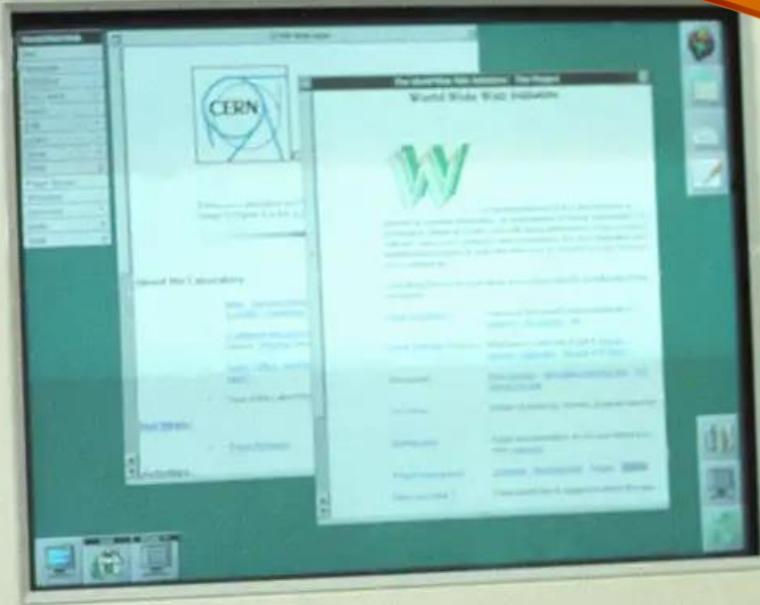
## **2de examenkans**

- schrijftelijke evaluatie (20%)
- vaardigheidsproef (80%)



# Inleiding

# Html werd 30



Tim Berners Lee

# Times have changed



# 1994: Amazon



The screenshot shows the first version of the Amazon website. At the top, there's a large blue header with the word "Books" in white. Below it, the main title "Welcome to Amazon.com Books!" is displayed in a bold, black font. To the left of the title is a logo featuring a stylized blue "A" above the text "amazon.com" and "Earth's biggest bookstore". A horizontal line of text below the title reads "*One million titles,  
consistently low prices.*". Further down, a sub-headline "SPOTLIGHT! -- AUGUST 16TH" is followed by a paragraph about books offered at low prices. Another section, "ONE MILLION TITLES", describes the search catalog and award winners. A "EYES & EDITORS" section explains the personal notification service. Finally, a "YOUR ACCOUNT" section provides instructions for managing orders and accounts.

Welcome to Amazon.com Books!

*One million titles,  
consistently low prices.*

(If you explore just one thing, make it our personal notification service. We think it's very cool!)

**SPOTLIGHT! -- AUGUST 16TH**

These are the books we love, offered at Amazon.com low prices. The spotlight moves EVERY day so please come often.

**ONE MILLION TITLES**

Search Amazon.com's [million-title catalog](#) by author, subject, title, keyword, and more... Or take a look at the [books we recommend](#) in over 20 categories... Check out our [customer reviews](#) and the [award winners](#) from the Hugo and Nebula to the Pulitzer and Nobel... and [bestsellers](#) are 30% off the publishers list...

**EYES & EDITORS, A PERSONAL NOTIFICATION SERVICE**

Like to know when that book you want comes out in paperback or when your favorite author releases a new title? Eyes, our tireless, automated search agent, will send you mail. Meanwhile, our human editors are busy previewing galleys and reading advance reviews. They can let you know when especially wonderful works are published in particular genres or subject areas. Come in, [meet Eyes](#), and have it all explained.

**YOUR ACCOUNT**

Check the status of your orders or change the email address and password you have on file with us. Please note that you **do not** need an account to use the store. The first time you place an order, you will be given the opportunity to create an account.

# 1998: Google



# 2001: Wikipedia

## HomePage

[HomePage](#) | [RecentChanges](#) | [Preferences](#) | [Random Page](#)  
You can [edit this page right now!](#) It's a free, community project

---

Welcome to [Wikipedia](#), a collaborative project to produce a complete encyclopedia from scratch. We started in January 2001 and already have **over 6,000 articles**. We want to make over 100,000, so let's get to work—*anyone* can edit any page—copyedit, write a little, write a lot. See the [Wikipedia FAQ](#) for information on how to edit pages and other questions. If you're visiting Wikipedia for the first time, welcome! The content of Wikipedia is covered by the [GNU Free Documentation License](#).

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---

### Other Category Schemes

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-- [Biographical Listing](#)

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Today is Friday, [July 27][1](#), 2001, servertime (Pacific Standard Time).

# 2004: Facebook



Thefacebook is an online directory that connects people through social networks at colleges.

We have opened up Thefacebook for popular consumption at **Harvard University**.

You can use Thefacebook to:

- Search for people at your school
- Find out who are in your classes
- Look up your friends' friends
- See a visualization of your social network

To get started, click below to register. If you have already reg

[Register](#) [Login](#)

about contact faq terms privacy  
a Mark Zuckerberg production  
Thefacebook © 2004



Scott Pearson's Profile (This is you)

Picture [ edit ]

Visualize My Friends  
Edit My Profile  
My Account Preferences  
My Privacy Preferences

Connection  
This is you.

Access  
Scott is currently logged in from a non-residential location.

Information [ edit ]

Account Info:  
Name: Scott Pearson, BS  
Member Since: January 12, 2005  
Last Update: February 3, 2005

[ edit ]

Basic Info:  
Email: pearson2@scranton.edu  
Status: Alumnus/Alumna  
Sex: Male  
Year: 2004  
Concentration: Computing Sciences  
Mathematics

Phone: 570.499.4818  
High School: Durmore HS '00

Extended Info [ edit ]

Screename: ScottiePP?  
Looking For: Friendship  
Dating: A Relationship  
Random play  
Whatever I can get  
Women

Interested In: Women

Relationship Status: Single

Political Views: Liberal

Interests: Drinking, Football, Basketball, Tennis, saying you're here that

# 2005: Youtube

The image shows two versions of the YouTube homepage side-by-side. The left version is the original design from 2005, featuring a blue header with the YouTube logo, navigation links for HOME, FAVORITES, MESSAGES, VIDEOS, and MY PROFILE, and a sign-up button. Below the header is a login form with fields for Screen Name and Password, and a Log In button. The right version is a modernized version of the same page, showing a search bar, user stats (500.0M | 1.9B), and links for Home, My Videos, My Favorites, and My Profile. It also includes sections for Tags (with a long list of tags like funny, amateur video, woman, statue, war, cool, laughing, mancavialia, random, eeee, chile, sheer, en, dinosaur, clie, ftf, biache, etc.), Most Popular Tags (2005, airplane, amuro, and, archive, art, arts, arye, asian, baby, basketball, beach, bikes, braze, california, cap, capoeira, car, cars, cat, centraalgestoedel, china, cmt, commercial, cool, crash, crazy, culture, cute, dance, dancing, dog, downtown, driving, edinburgh, fire, flight, footage, football, francisco, fun, funny, guitar, guitar, guitar, house, in, ian, it, italia, lu, izquierdo, ioco, jumping, kook, landing, landscapes, martial, movie, murderdolls, music, name, nature, netherlands, new, nyc, of, overdramatic, park, party, playing, psone, pump, racing, rap, reppression, ronen, san, show, skill, soace, stockshots, street, streetball, stunt, stunts, sturd, takkan, tb, the, tx, up, video, videoshots, vierdaagse, waakade, world, xlanz), and a footer with links for About Us, Terms of Use, and Privacy Policy.

# Case: Adobe



1996





PRODUCTS ABOUT ADOBE REGISTRATION SUPPORT SEARCH/SITEMAP PERSONAL ADOBE FEEDBACK



**PRINT** Use a variety of blending options to make a multilayer composite in Photoshop.

WEB



**Mostasa**  
What's the secret weapon behind Jamesbond.com?  
How does SpinalTap.com go to "11"? Just ask Mostasa.

PRINT



**The art of coloring line art**  
Tired of the old black and white? Learn how to add color to ordinary line art.

ePAPER



**Annotate to collaborate**  
Review and approval of Adobe PDF files begins with the annotation tools in Acrobat.

SPOTLIGHT



**UPDATES**  
[Save on Photoshop 6](#)  
Upgrade to Photoshop 6.0 for just \$199. Even better, upgrade any other Adobe product at the same time and save 10% on both.

DIGITAL IMAGING



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- [GoLive upgrade only \\$99](#)
- [New Web Collection from \\$999](#)
- [LiveMotion special offer: Just \\$99!](#)

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1999





2008

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#### Products



Acrobat  
Professional



Flex

### News

Adobe unveils Flex 3, a free open source framework for creating rich Internet applications

RIAs on the desktop: Adobe AIR is now in production



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#### A whole new way to create

Creative Cloud delivers everything you need to create, collaborate, and publish all in one place.

Creative professionals ›

Teams and small businesses ›

Enterprise ›



#### Every solution a marketer needs

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Digital analytics ›

Testing and targeting ›

Social marketing ›

Media optimization ›

Web experience management ›

Campaign management ›



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2012

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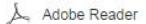
Find help, tutorials, troubleshooting, and tips. Connect with our expert community.

Tutorials and videos ›

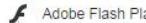
Training and certification ›

Forums ›

Events ›



Adobe Reader



Adobe Flash Player



Adobe AIR



Adobe Shockwave Player

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@ Adobe Creative Cloud

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Support & Learning

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For personal and professional use

Company

News room

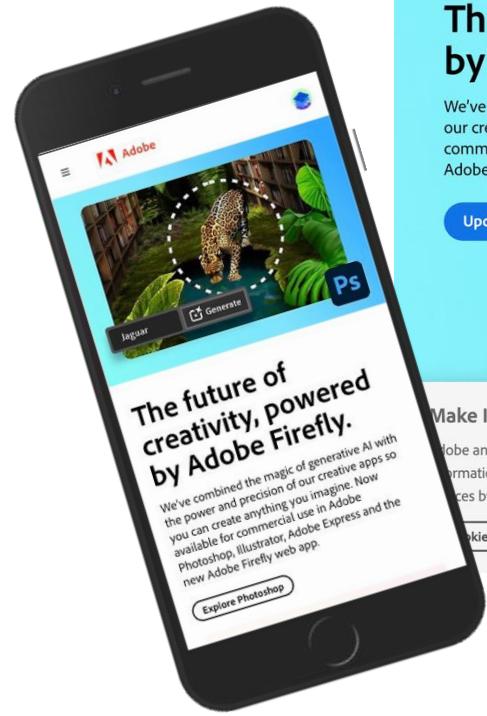


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## The future of creativity, powered by Adobe Firefly.

We've combined the magic of generative AI with the power and precision of our creative apps so you can create anything you imagine. Now available for commercial use in Adobe Photoshop, Illustrator, Adobe Express and the new Adobe Firefly web app.

[Update Photoshop](#)[Explore Photoshop](#)

### The future of creativity, powered by Adobe Firefly.

We've combined the magic of generative AI with the power and precision of our creative apps so you can create anything you imagine. Now available for commercial use in Adobe Photoshop, Illustrator, Adobe Express and the new Adobe Firefly web app.

[Explore Photoshop](#)

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# Case: Apple

The screenshot shows the Apple website homepage from 1997. At the top right, there's a navigation bar with icons for Home, Find It, Mail, and Support. The main title "Welcome to Apple 1997" is displayed prominently. Below it, a banner features the text "Introducing CyberDrive" and "Register today for a free CD-ROM." A "CyberDrive" logo is shown next to a small image of a laptop. To the right, there are sections for "ESTATE 300" (Mobile, Affordable, & Smart) and "MOVIES FROM MARS" (QuickTime VR). On the left side, there's a sidebar with links like "Find It," "Product Information," "Customer Support," "Technology & Research," "Developer World," "Groups & Interests," "Resources Online," and "About Apple." A dropdown menu under "Apple Sites Worldwide" lists "Switzerland," "Taiwan," "Turkey," "UK & Ireland," and "United States," with "United States" currently selected. Other links in the sidebar include "Where to Buy," "Register to Win," "Software Updates," and "Home Page Archives." At the bottom, a link reads "Big Help for Small Biz Find".

1996

# Apple



2002

## Hot News Headlines

## Pro. Go. Whoa. A Strategy as Simple as the Macintosh.



Pro.

Creative professionals, meet your match.



Go.

We rewrote the book on mobile computing.



Whoa.

It's okay, you don't have to say anything.

The  
Apple Store

[Hot News](#)  
[About Apple](#)

[Products](#)  
[Support](#)

[Design & Publishing](#)  
[Education](#)

[Developer](#)  
[Where to Buy](#)



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## A little video for everyone. The new iPod nano

[Watch the ad.](#)[Hot News Headlines](#)[Read the latest news and information from Apple.](#)

EA's hottest new games.  
Now playing on your Mac.

The new iPod touch. A guided tour.

Hold everything. [The new iPod classic](#)

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### Why You'll Love a Mac

[▶](#)[Leopard just works.](#)

Leopard has over 300 amazing new features. But most impressive, it just works the way you want it to.

[Watch ads ▶](#) [More reasons ▶](#)

## MacBook Pro.

Now featuring the latest Intel Core 2 Duo processor and Multi-Touch trackpad.

### Where to Buy

[Hot News](#)[Mac@work](#)

### Sonic Soul

Singer/songwriter Greg Laswell records directly into

2012

[Store](#)[Mac](#)[iPad](#)[iPhone](#)[Watch](#)[Vision](#)[AirPods](#)[TV & Home](#)[Entertainment](#)[Accessories](#)[Support](#)

Buy Mac or iPad with education savings. And last chance to get a gift card up to \$150. Offer ends 9/30.<sup>1</sup> [Shop >](#)

# iPhone 16 Pro

Hello, Apple Intelligence.



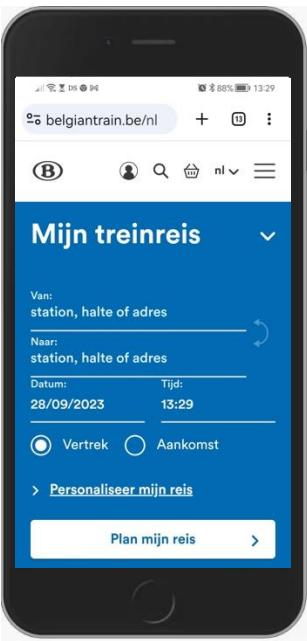
Available starting 9.20  
Apple Intelligence coming this fall<sup>2</sup>

[Learn more](#)[Pre-order](#)

2024



webapp



website



# Wat is HTML?

- HyperText Markup Language
- Markup-taal
- Structureert inhoud
- Defineert inhoud
- Semantisch
  - inhoud & betekenis
  - -design

```
TYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
</>
<head>
<meta name="TITLE">
<meta name="KEYWORD">
<meta name="DESCRIPTION">
<link rel="stylesheet" type="text/css" href="style.css" />
<script language="JavaScript" type="text/javascript" src="script.js" />
</head>
<body>
```

# Wat is CSS?

- Cascading Style Sheet
- Stijlblad
- Definieert opmaak
- Opsomming van eigenschappen (properties)



# Wat is Javascript

- Code die door de browser wordt verwerkt
- Dynamische webpagina's
- Kan html en css updaten en aanpassen
- Berekenen, data manipuleren, valideren, ...
- Reageren op triggers zoals muisklik, scroll, ...

```
1 // Promise from setTimeout
2 const afterSomeTime = (time) => new Promise(resolve => {
3   setTimeout(() => {
4     resolve(true);
5   }, time);
6 });
7 const callAfterSomeTime = (callback, time) => afterSomeTime(time).then(callback);
8 callAfterSomeTime(() => console.log('Hello after 1500ms'), 1500);
9
10 const getData = async (url) => fetch(url);
11
12
13 document
14   .querySelector('#submit')
15   .addEventListener('click', function() {
16     const name = document.querySelector('#name').value;
17
18     // send to backend
19     const user = await fetch('/users?name=${name}');
20     const posts = await fetch('/posts?userId=${user.id}');
21     const comments = await fetch('/comments?post=${posts[0].id}');
22     // display comments on DOM
23   });
24
```

IMDb Menu All Search IMDb

Cast & crew · User reviews · Trivia IMDbPro All topics

# Dune

Original title: Dune: Part One  
2021 · 12A · 2h 35m

**IMDb RATING** 8.0/10 **YOUR RATING** Rate **POPULARITY** 72 · 22

**Play trailer with sound** 2:35

**21 VIDEOS** **99+ PHOTOS**

**Action** **Adventure** **Drama**

A noble family becomes embroiled in a war for control over the galaxy's most valuable asset while its heir becomes troubled by visions of a dark future.

**5.6K User reviews** **507 Critic reviews** **74 Metascore**

**Director** Denis Villeneuve  
**Writers** Jon Spaihts (screenplay by) · Denis Villeneuve (screenplay by) · Eric Roth (screenplay by)  
**Stars** Timothée Chalamet · Rebecca Ferguson · Zendaya

**IMDbPro** See production, box office & company info

**Won 6 Oscars** 165 wins & 278 nominations total

**Videos** 21

**Trailer 2:35** **Final Trailer**

**Trailer 3:34** **Main Trailer**

**Photos** 1349

Trending: Stars to Watch [See the gallery](#)

**More to explore**

**Photos** 21

**Related lists created by IMDb editors**

- New and Upcoming Sci-Fi and Fantasy Movies and Series
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- Oscars Snubs and Surprises: IMDb Fans React to the 2022 Nominations

# Voorbeeld

**Stephen McKinley Henderson** Thufur Hawat

**Josh Brolin** Gurney Halleck

**Javier Bardem** Stilgar

**Sharon Duncan-Brewster** Dr. Liet Kynes

**Chang Chen** Dr. Wellington Yueh

**Dave Bautista** Glossu Rabban Harkonnen

**David Dastmalchian** Piter de Vries

**Charlotte Rampling** Reverend Mother Mohiam

**Babs Olusanmokun** Jamis

**Benjamin Clémentine** Herald of the Change (as Benjamin ...)

**Souad Faress** Bene Gesserit Sister

**Golda Roshevuel** Shadow Mapes

**Director** Denis Villeneuve

**Writers** Jon Spaihts (screenplay by) · Denis Villeneuve (screenplay by) · Eric Roth (screenplay by)

**All cast & crew**

**Production, box office & more at IMDbPro**

**More like this**

**The Batman** 7.9

**Spider-Man: No Way Home** 8.3

**The Lord of the Rings: The Fellowship of the...** 8.8

**Once Upon a Time... in Hollywood** 7.6

**IMDb's Top 50 TV Dramas** [See the full list](#)

**User lists** [Create a list](#)

- Films and Shows Watched in 2022
- 見たもの2022
- I. Misc 2022
- HBOMax Horr/Thrill/Sci
- Films of 2021
- Movies I Re-watched in 2022

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- Oscars 2022 — Films With Multiple Nominations
- Oscars 2022 — Best Original Score
- Favorite Oscar Best Picture Science Fiction Nominee?
- Most Unnecessary Remake/Reboot or Sequel of 2020



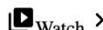
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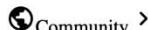
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All ▾

# Met of zonder javascript

IMDb Menu All Mermaid Search

The Little Mermaid  
2023  
Halle Bailey, Jonah Hauer-King

Official Teaser Trailer

The Little Mermaid

BACK IN THEATRES

The Little Mermaid  
1989  
Jodi Benson, Samuel E. Wright

TAKE 5

IMDb Menu All Mermaid Search IMDbPro

Up next

'HELLRAISER'

'Hellraiser' Will Unlock Your Fears

1:50

| From your Watchlist >

...

# HTML

- Tim Berners Lee ontwikkelde HTML 1991  
HTML 1 – release 1993
- 1997  
HTML 3
- 1999 - 2012  
HTML 4.01 / XHTML
- 2014  
HTML 5 wordt standaard
- 2017  
HTML 5.2

## World Wide Web

The WorldWideWeb (W3) is a wide-area [hypermedia](#) information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an [executive summary](#) of the project, [Mailing lists](#) , [Policy](#) , November's [W3 news](#) , [Frequently Asked Questions](#) .

### What's out there?

[Help](#) Pointers to the world's online information, [subjects](#) , [W3 servers](#), etc.

### Help

on the browser you are using

### Software Products

A list of W3 project components and their current state. (e.g. [Line Mode X11 Viola](#) , [NeXTStep](#) , [Servers](#) , [Tools](#) , [Mail robot](#) , [Library](#) )

### Technical

Details of protocols, formats, program internals etc

### Bibliography

Paper documentation on W3 and references.

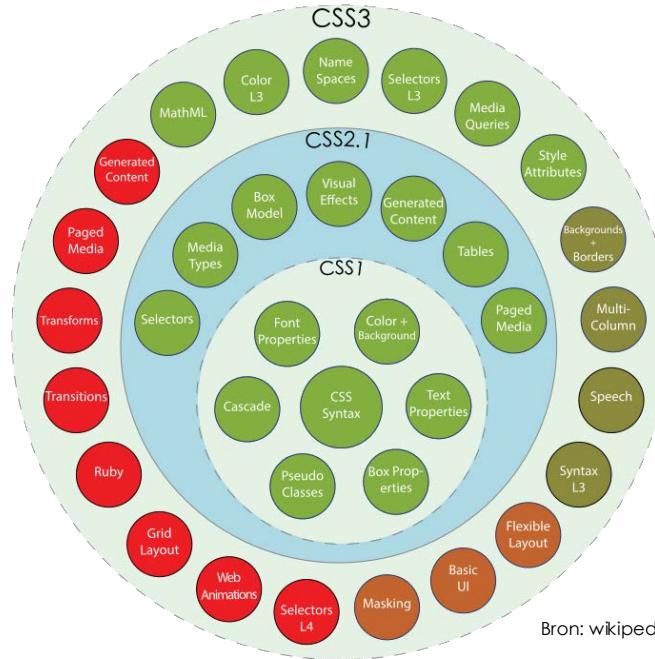
### People

```
<BODY BGCOLOR="#FFFF00" BACKGROUND="http://www.kibo.com/webtv/evil_bkg_2.gif" TEXT="#FF0000" ALINK="#00FF00" VLINK="#FFFFFF" FONTSIZE="LARGE" HPSACE="36" VSPACE="36" LEFTMARGIN="36" TOPMARGIN="36" INSTRUCTIONS="http://www.kibo.com/webtv/webtv.html" CREDITS="http://www.kibo.com/webtv/webtv.html" LOGO="/webtv/page_logo.gif" XSPEED="4" YSPEED="1">
<TABLE BORDER="12" BORDERCOLOR="#666666" BORDERCOLORDARK="#FFFFFF" BORDERCOLORLIGHT="#008800" CELLPADDING="0" CELLSPLICING="0" CELLBORDER="16" TRANSPARENCY="5%" WIDTH="2500">
<TR>
<TD>content here</TD>
<TD><B><FONT COLOR="#999999">Something bold and grey</FONT></B></TD>
</TR>
</TABLE>
```

# CSS

- Geïntroduceerd in 1994
- Scheiding opmaak (html) – design (css)
- Browserimplementatie lange tijd problematisch
- CSS1 – CSS3
- (CSS4)
  - Modules level 1-4

WD	Working Draft
LC	Last Call
CR	Candidate Recommendation
PR	Proposed Recommendation
REC	Recommendation

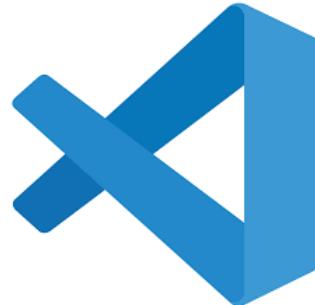




# Tools

# Visual Studio Code

- Ook gebruikt in andere vakken
- Win + Mac
- Gratis
- [code.visualstudio.com](https://code.visualstudio.com)



# Google Chrome of Firefox

- Noodzakelijk als **development tool**:
  - Chrome, Edge & Firefox
- Als browser:
  - Chrome
  - Microsoft Edge,
  - Safari
  - Opera
  - ...



# **HTML**



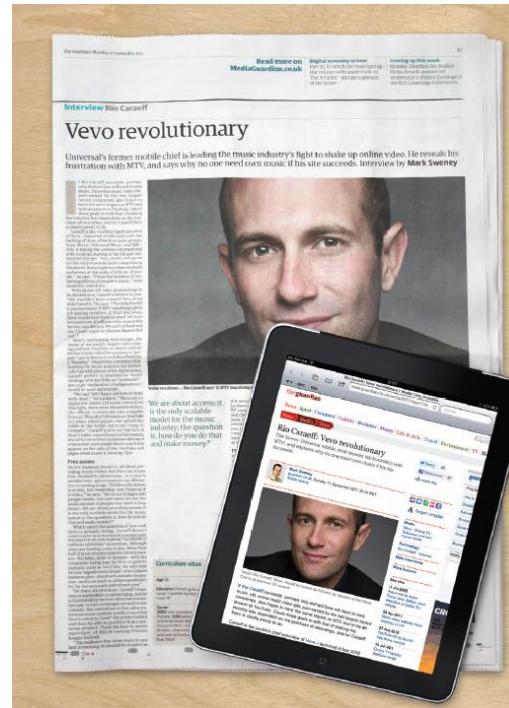
Html5  
Eerste start

# Waarom html leren?

- HTML-elementen zijn de bouwstenen van eender welke webpagina
- Toegankelijkheid, gebruikerservaring, page ranking, zoekmachine optimalisatie worden sterk beïnvloed door de html-code
- programmeren voor het web in eendere welke taal vereist zeer goede HTML-kennis
- HTML is gemakkelijk

# HTML: Structuur

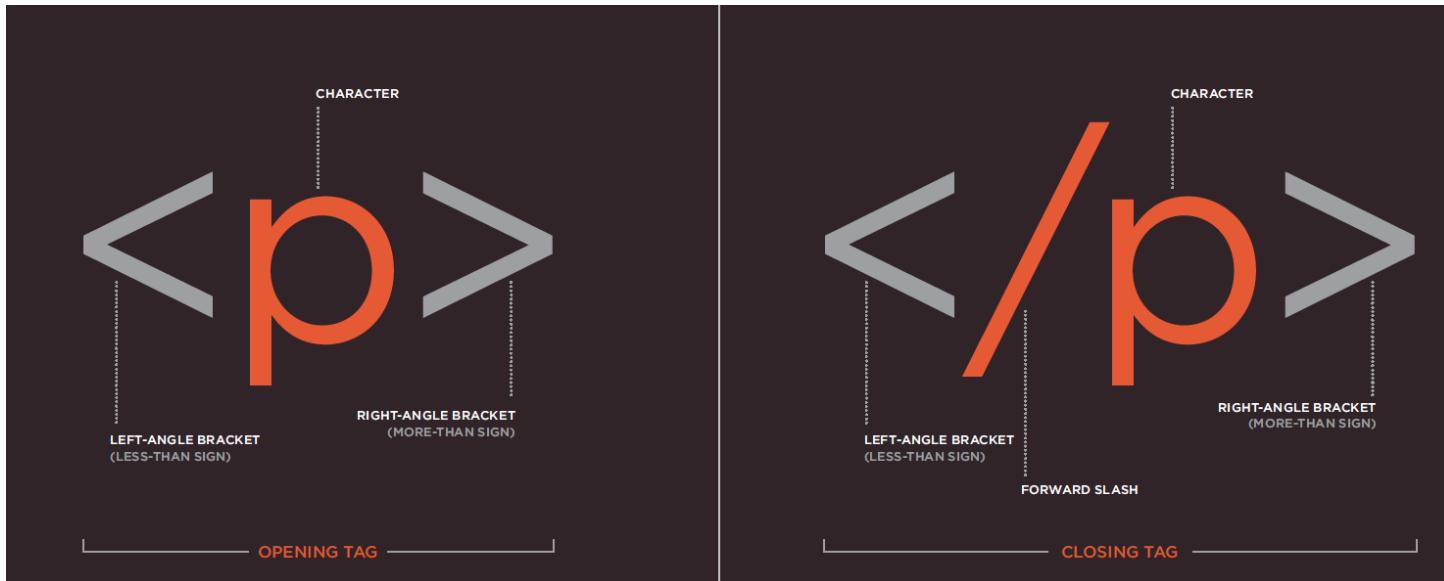
- Html zorgt voor structuur
- Elementen beschrijven de verschillende delen: titels, paragrafen, ...
- **Niet** bedoeld voor design



# HTML: PAGE STRUCTURE

```
<html>
  <body>
    <h1>This is the Main Heading</h1>
    <p>This text might be an introduction to
       the rest of the page.</p>
    <h2>This is a Sub-Heading</h2>
    <p>Many long articles have sub-headings
       to help you follow the structure.</p>
    <h2>Another Sub-Heading</h2>
    <p>Here you can see another.</p>
  </body>
</html>
```

# HTML elementen

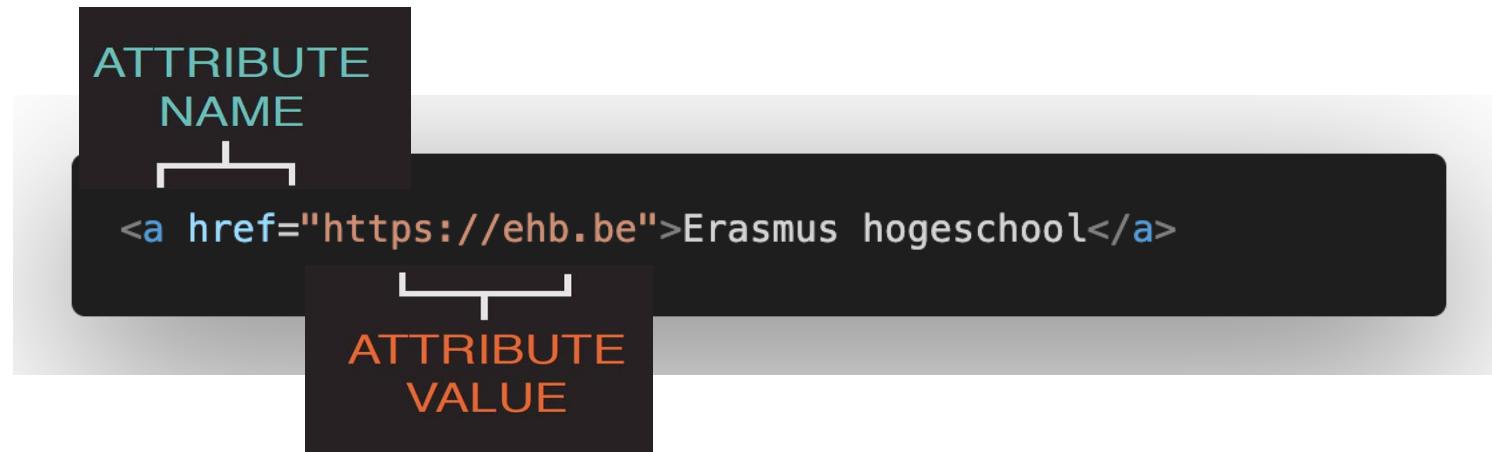


# HTML elementen

- De eigenlijke tekst en tags vormen samen elementen
- Container elementen zoals **<p>Tekst hier</p>**
  - Hebben betrekking op wat er tussen staat
  - Hebben een begin- en een eindtag
    - Eindtags hebben een slash (/) voor de tagnaam en hebben geen attributen
- Lege elementen zoals **<br>**
  - vaak gebruikt voor het inbedden van externe elementen
  - Hebben geen eindtag
  - <br> kan ook geschreven worden als <br /> of <br/> maar sinds HTML5 is dat verouderd

# HTML attributen

- Attributen bevatten extra info over de elementen



# Basiselementen

- Html
  - Root element
- Head
  - Meta info over de pagina
- Title
  - Titel voor de pagina
- Body
  - Eigenlijke inhoud

# Basis HTML template

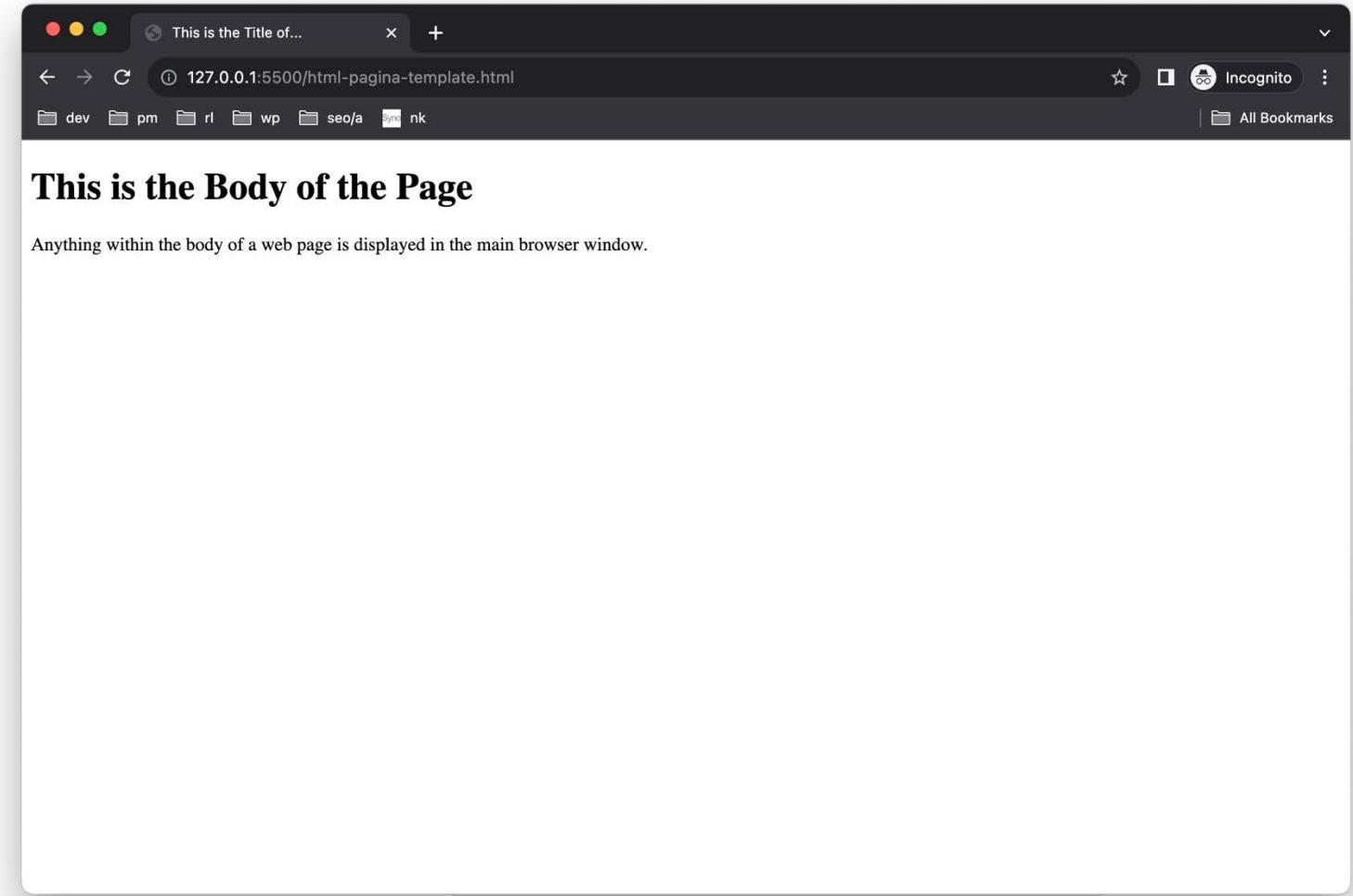
- head
  - meta charset
  - title
- body
  - eigenlijke inhoud
  - zichtbaar in de *viewport*

```
<!DOCTYPE html>
<html lang="nl">
<head>
  <meta charset="UTF-8">
  <title></title>
</head>
<body>

</body>
</html>
```

# HEAD & BODY

```
<!DOCTYPE html>
<html>
  <head>
    <title>This is the Title of...</title>
  </head>
  <body>
    <h1>This is the Body of the Page</h1>
    <p>Anything within the body of a web
      page is displayed in the main
      browser window.</p>
  </body>
</html>
```



# doctype

- Belangrijk om ALTIJD een doctype toe te voegen!
  - **Vroeger:** Xhtml (oh boy!)

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

- **Nu:** html5

```
<!doctype html>
```

# character encoding

```
<meta charset="utf-8">
```

- Noodzakelijk element in de head

# HTML Commentaar

HTML

```
<!-- start of introduction -->
<h1>Current Exhibition</h1>
<h2>Olafur Eliasson</h2>
<!-- end of introduction -->

<!--
    <p>Info about the exhibition.</p>
-->
```

- om je code te documenteren
- om tijdens development met je code te experimenteren

# HEADINGS

HTML

```
<h1>This is a Main Heading</h1>
<h2>This is a level 2 heading</h2>
<h3>This is a level 3 heading</h3>
<h4>This is a level 4 heading</h4>
<h5>This is a level 5 heading</h5>
<h6>This is a level 6 heading</h6>
```

# This is a Main Heading

## This is a Level 2 Heading

### This is a Level 3 Heading

#### This is a Level 4 Heading

##### This is a Level 5 Heading

###### This is a Level 6 Heading

# PARAGRAPHS

HTML

`<p>`A paragraph consists of one or more sentences that form a self-contained unit of discourse. The start of a paragraph is indicated by a new line.`</p>`

`<p>`Text is easier to understand when it is split up into units of text. For example, a book may have chapters. Chapters can have subheadings. Under each heading will be one or more paragraphs.`</p>`

## RESULT

A paragraph consists of one or more sentences that form a self-contained unit of discourse. The start of a paragraph is indicated by a new line.

Text is easier to understand when it is split up into units of text. For example, a book may have chapters. Chapters can have subheadings. Under each heading there will be one or more paragraphs.

# WHITESPACE IS COLLAPSED

```
<p>The      moon is  
                  drifting      away      from the  
                  earth.</p>
```

The moon is drifting away from Earth.

# LINE BREAKS

<p>The Earth<br>gets one hundred tons  
heavier every day<br>due to falling  
space dust.</p>

The Earth  
gets one hundred tons heavier every day  
due to falling space dust.

# Bestandsnamen

- .html of .htm kan allebei
- Unix/Linux-server: hoofdlettergevoelig
- Geen spaties of vreemde tekens in bestandsnamen
- Homepage/startpagina: meestal een specifieke naam
  - index.html
  - default.htm
  - ...

# Verwijzen naar css & javascript

```
<link rel="stylesheet" href="style.css">  
<script src="main.js"></script>
```



HTML  
Tekst – Lijsten - Hyperlinks

# HTML Basis

Tekst – Lijsten - Hyperlinks

# BOLD & ITALIC

```
<p>This is how we make a word appear  
<b>bold</b>.</p>
```

```
<p>This is how we make a word appear  
<i>italic</i>.</p>
```

This is how we make a word appear **bold**.

This is how we make a word appear *italic*.

# SUPERSCRIPT & SUBSCRIPT

<p>On the 4<sup>th</sup> September you will learn about E=MC<sup>2</sup>.</p>

<p>The amount of CO<sub>2</sub> in the atmosphere grew by 2ppm in 2009<sub>1</sub>.</p>

On the 4<sup>th</sup> of September you will learn about E=MC<sup>2</sup>.

The amount of CO<sub>2</sub> in the atmosphere grew by 2ppm in 2009<sub>1</sub>.

# SEMANTIC MARKUP

## WHAT IS IT?

Set of elements, for example:

The `<em>` tag adds emphasis

`<blockquote>` contains a quote

## WHY USE IT?

Provides extra information about your content

Do NOT use it to alter presentation of those elements

## APPLICATION

Screen readers can add emphasis to words in `<em>`

Search engines can find quotations in `<blockquote>`

# STRONG & EMPHASIS

```
<p><strong>Beware</strong> pickpockets  
operate in this area.</p>
```

```
<p>I <em>think</em> Ivy was the first.</p>
```

```
<p>I think <em>Ivy</em> was the first.</p>
```

```
<p>I think Ivy was the <em>first</em>.</p>
```

**Beware:** Pickpockets operate in this area.

I *think* Ivy was the first.

I think *Ivy* was the first.

I think *Ivy* was the *first*.

# QUOTATIONS

```
<blockquote cite="http://en.wikipedia.org/wiki/  
Winnie-the-Pooh">  
    <p>Did you ever stop to think, and forget to start again?</p>  
</blockquote>  
  
<p>As A.A. Milne said, <q>  
Some people talk to animals. Not many listen though.  
    That's the problem.</q></p>
```

Did you ever stop to think, and forget  
to start again?

As A.A. Milne said, "Some people talk to animals.  
Not many listen though. That's the problem."

# ABBREVIATIONS & ACRONYMS

```
<p><abbr title="Professor">Prof</abbr>
Stephen Hawking is a theoretical
physicist and cosmologist.</p>
```

```
<p><abbr title="National Aeronautics
and Space Administration">NASA</abbr>
do some crazy space stuff.</p>
```

Prof Stephen Hawking is a theoretical physicist and cosmologist.

NASA do some crazy space stuff.

National Aeronautics and Space  
Administration

# CITATIONS & DEFINITIONS

<p><cite>A Brief History of Time</cite> by Stephen Hawking has sold over ten million copies worldwide.</p>

<p>A <dfn>black hole</dfn> is a region of space from which nothing, note even light, can escape.</p>

*A Brief History of Time* by Stephen Hawking has sold over ten million copies worldwide.

A black hole is a region of space from which nothing, not even light, can escape.

---

# CHANGES TO CONTENT

```
<p>It was the <del>worst</del>  
<ins>best</ins> idea she had ever  
had.</p>
```

```
<p>Laptop computer:</p>  
<p><s>Was $995</s></p>  
<p>Now only $375</p>
```

It was the ~~worst~~ best idea she had ever had.

Laptop computer:

~~Was \$995~~

Now only \$375

# THREE LIST TYPES

1

## ORDERED

1. Chop potatoes into quarters
2. Simmer in salted water
3. Heat milk and butter
4. Drain potatoes and mash
5. Mix in the milk mixture

2

## UNORDERED

- 1kg King Edward potatoes
- 100ml milk
- 50g salted butter
- Freshly grated nutmeg
- Salt and pepper to taste

3

## DEFINITION

- Sashimi  
Sliced raw fish
- Scale  
A device used to accurately measure weight

# ORDERED LISTS (numbered)

```
<ol>
  <li>Chop potatoes into quarters</li>
  <li>Simmer in salted water for 15-20
      minutes until tender</li>
  <li>Heat milk, butter and nutmeg</li>
  <li>Drain potatoes and mash</li>
  <li>Mix in the milk texture</li>
</ol>
```

1. Chop potatoes into quarters
2. Simmer in salted water for 15-20 minutes until tender
3. Heat milk, butter and nutmeg
4. Drain potatoes and mash
5. Mix in the milk mixture

# UNORDERED LISTS (bullets)

```
<ul>
  <li>1kg King Edward potatoes</li>
  <li>100ml milk</li>
  <li>50g salted butter</li>
  <li>Freshly grated nutmeg</li>
  <li>Salt and pepper to taste</li>
</ul>
```

- 1kg King Edward potatoes
- 100ml milk
- 50g salted butter
- Freshly grated nutmeg
- Salt and pepper to taste

# DEFINITION LIST

```
<dl>
  <dt>Sashimi</dt>
  <dd>Sliced raw fish served
      with condiments.</dd>
  <dt>Scale</dt>
  <dd>Device used to measure the weight
      of ingredients.</dd>
  <dd>A technique by which the scales are
      removed from the skin of fish.</dd>
</dl>
```

## Sashimi

Sliced raw fish that is served with condiments such as shredded daikon radish or ginger root, wasabi and soy sauce

## Scale

A device used to accurately measure the weight of ingredients

A technique by which the scales are removed from the skin of a fish

# NESTED LIST

```
<ul>
  <li>Mousses</li>
  <li>Pastries
    <ul>
      <li>Croissant</li>
      <li>Milles-feille</li>
      <li>Palmier</li>
      <li>Profiteroles</li>
    </ul>
  </li>
  <li>Tarts</li>
</ul>
```

- Mousses
- Pastries
  - Croissant
  - Mille-feuille
  - Palmier
  - Profiterole
- Tarts

# HORIZONTAL RULES

<p>Venus is the only planet that rotates clockwise</p>

<hr />

<p>Jupiter is bigger than all the other planets combined.</p>

Venus is the only planet that rotates clockwise.

---

Jupiter is bigger than all the other planets combined.

# HTML CHARACTER ENTITIES

```
<p>The &lt;html&gt; tag</p>
<p>The &#60;html&#62; tag</p>
```

The <html> tag

The <html> tag

# LINKS

```
<a href="http://www.imdb.com">IMDB</a>
```

# LINKS SYNTAX

THE PAGE THE **LINK**  
TAKES YOU TO

```
<a href="http://www.imdb.com">IMDB</a>
```

THE **TEXT** THE USER  
CLICKS ON

## LINKS NAAR ANDERE SITES

```
<a href="http://www.empireonline.com">  
Empire</a>
```

Empire

# LINKS OPENEN IN NIEUW VENSTER / TAB A NEW WINDOW

```
<a href="http://www.imdb.com"  
target="_blank">IMDB</a> (opens in a  
new window)
```

# LINKS BINNEN DE WEBSITE

<a href="index.html">Home</a>

- [Home](#)
- [About](#)
- [Movies](#)
- [Contact](#)

<a href="about.html">About</a>

<a href="movies.html">Movies</a>

<a href="contact.html">Contact</a>

# DIRECTORY STRUCTURE

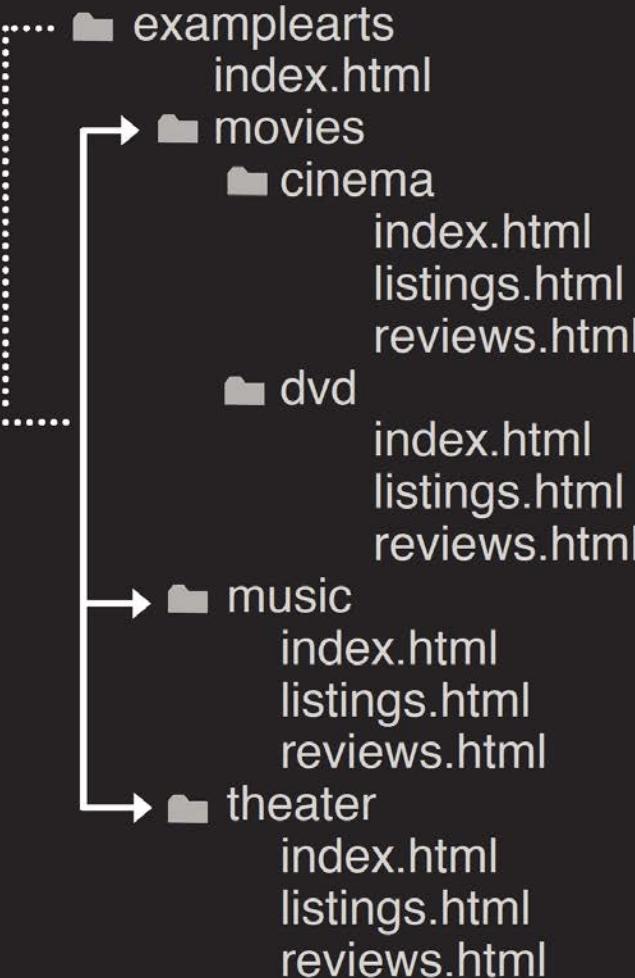
ROOT FOLDER

```
graph TD; Root[ROOT FOLDER] --> examplearts[examplearts]; examplearts --> index1[index.html]; examplearts --> movies[movies]; movies --> cinema[cinema]; cinema --> index2[index.html]; cinema --> listings2[listings.html]; cinema --> reviews2[reviews.html]; movies --> dvd[dvd]; dvd --> index3[index.html]; dvd --> listings3[listings.html]; dvd --> reviews3[reviews.html]; movies --> music[music]; music --> index4[index.html]; music --> listings4[listings.html]; music --> reviews4[reviews.html]; movies --> theater[theater]; theater --> index5[index.html]; theater --> listings5[listings.html]; theater --> reviews5[reviews.html]
```

- examplearts
  - index.html
- movies
  - cinema
    - index.html
    - listings.html
    - reviews.html
  - dvd
    - index.html
    - listings.html
    - reviews.html
  - music
    - index.html
    - listings.html
    - reviews.html
  - theater
    - index.html
    - listings.html
    - reviews.html

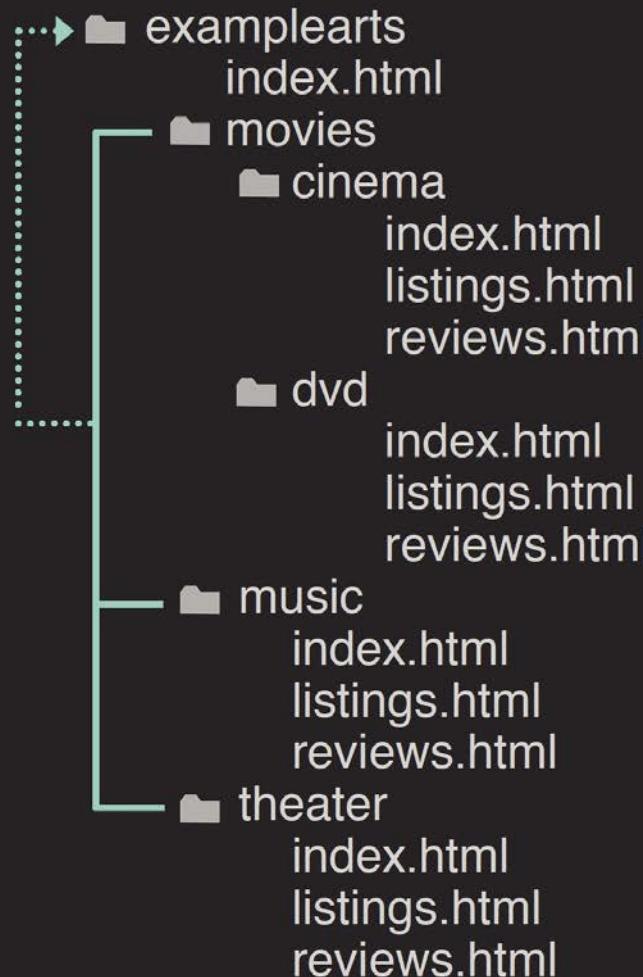
# DIRECTORY STRUCTURE

CHILD



# DIRECTORY STRUCTURE

CHILD  
PARENT



# DIRECTORY STRUCTURE

CHILD

PARENT

GRANDCHILD



# DIRECTORY STRUCTURE

CHILD

PARENT

GRANDCHILD

GRANDPARENT



# RELATIVE URLs

SAME

reviews.html



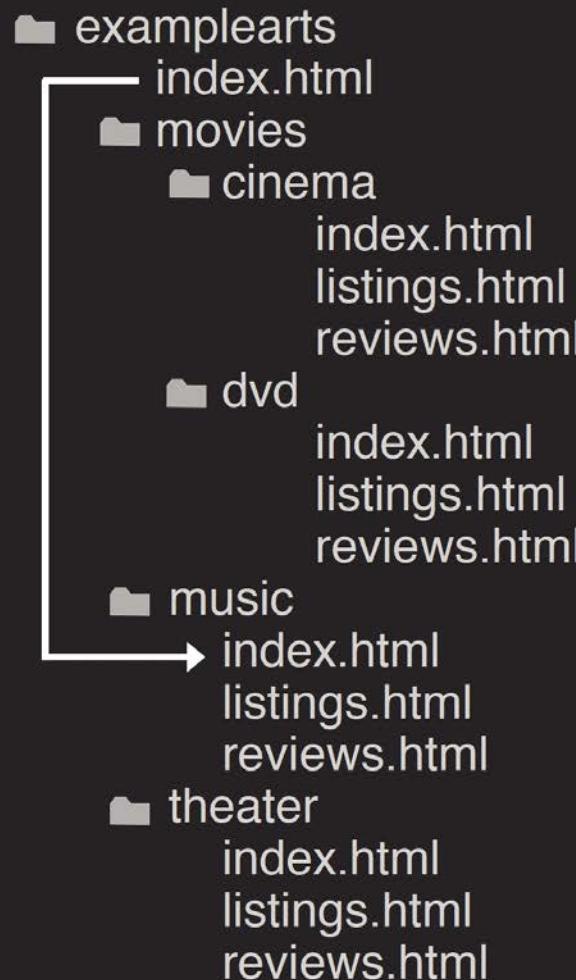
# RELATIVE URLs

SAME

reviews.html

CHILD

music/index.html



# RELATIVE URLs

SAME

reviews.html

CHILD

music/index.html

PARENT

./index.html



# RELATIVE URLs

SAME

reviews.html

CHILD

music/index.html

PARENT

./index.html

GRANDCHILD

movies/dvd/index.html



# RELATIVE URLs

SAME

reviews.html

CHILD

music/index.html

PARENT

../index.html

GRANDCHILD

movies/dvd/index.html

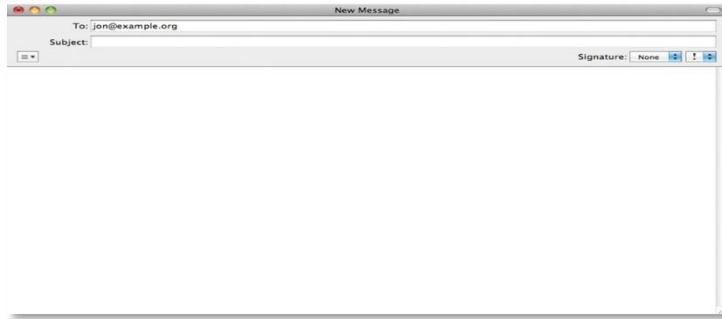
GRANDPARENT

.../../index.html



# EMAIL & TELEFOON LINKS

["mailto:tom@example.com"](#)Email Tom



["tel:+32-123-456"](#)Bel Tom

# LINK NAAR SPECIFIEKE PLAATS OP DE PAGINA

```
<h1 id="top">  
    Film-Making Terms</h2>  
  
<a href="#arc-shot">  
    Arc shot</a><br />  
<a href="#interlude">  
    Interlude</a><br />  
<a href="#prologue">  
    Prologue</a><br />  
  
<h2 id="prologue">  
    Prologue</h2>  
  
<a href="#top">Top</a>
```

## Film-Making Terms

[Arc Shot](#arc-shot)  
[Interlude](#interlude)  
[Prologue](#prologue)

### Arc Shot

A shot in which the subject is photographed by an encircling or moving camera

### Interlude

A brief, intervening film scene or sequence, not specifically tied to the plot, that appears within a film

### Prologue

# LINK NAAR SPECIFIEKE PLAATS OP DE PAGINA

```
<h1 id="top">  
    Film-Making Terms</h2>  
  
<a href="#arc-shot">  
    Arc shot</a><br />  
<a href="#interlude">  
    Interlude</a><br />  
<a href="#prologue">  
    Prologue</a><br />  
  
<h2 id="prologue">  
    Prologue</h2>  
  
<a href="#top">Top</a>
```

## Film-Making Terms

[Arc Shot](#arc-shot)  
[Interlude](#interlude)  
[Prologue](#prologue)

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# LINK NAAR SPECIFIEKE PLAATS OP DE PAGINA

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<h1 id="top">  
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    Arc shot</a><br />  
<a href="#interlude">  
    Interlude</a><br />  
<a href="#prologue">  
    Prologue</a><br />  
  
<h2 id="prologue">  
    Prologue</h2>  
  
<a href="#top">Top</a>
```

## Film-Making Terms

[Arc Shot](#arc-shot)  
[Interlude](#interlude)  
[Prologue](#prologue)

### Arc Shot

A shot in which the subject is photographed by an encircling or moving camera

### Interlude

A brief, intervening film scene or sequence, not specifically tied to the plot, that appears within a film

### Prologue

A speech, preface, introduction, or brief scene preceding the main action or plot of a film; contrast to epilogue

[Top](#)



# SEMANTISCHE PAGINA STRUCTUUR

# HTML Structuurelementen

- div
- header
- footer
- nav
- main
- article
- section
- aside

Dit gaat **niet** over LAYOUT  
maar over **semantische structuur**

# header, footer

- Niet alleen op pagina niveau maar ook dieper genest
  - bv: Alle items op een nieuwspagina kunnen een eigen header en footer hebben
- headers & footers mogen niet in andere headers & footers genest zijn.

# header

```
<header> ... </header>
```

- represents a group of introductory or navigational aids.  
A header element is intended to usually contain the **section's heading** (an h1–h6 element or an hgroup element), but this is not required.  
The header element can also be used to wrap a section's table of contents, a search form, or any relevant logos.

# footer

```
<footer> ... </footer>
```

- represents a footer for its nearest ancestor sectioning content or sectioning root element. A footer typically contains information about its section such as who wrote it, links to related documents, copyright data, and the like

```
<div class="footer">
  <ul>
    <li>copyright</li>
    <li>sitemap</li>
    <li>contact</li>
    <li>to top</li>
  </ul>
</div>
```

```
<footer>
  <ul>
    <li>copyright</li>
    <li>sitemap</li>
    <li>contact</li>
    <li>to top</li>
  </ul>
</footer>
```

# nav

```
<nav> ... </nav>
```

- The nav element represents a section of a page that links to other pages or to parts within the page: a section with (major) navigation links

```
<header>
  <h1>Titel hier</h1>
  <nav>
    (ongeordende lijst met) sitelinks
  </nav>
</header>
```

- Niet elke lijst van links moet binnen en nav

# main

```
<main> ... </main>
```

- The main content of the body of a document or application. The main content area consists of content that is directly related to or expands upon the central topic of a document or central functionality of an application.  
(W3C)

# section

<section> ... <section>

- The section element represents a generic section of a document or application. A section, in this context, is a thematic grouping of content, typically with a heading
- latest work, product list, specifications of a product, 'action' category on a game sites overview page, ...

# article

```
<article> ... </article>
```

- The article element represents a self-contained composition in a document, page, application, or site and that is, in principle, independently distributable or reusable, e.g. in syndication.
- blog post, product, news item
- Any content that make sense by itself
  - news item, blogpost, tweet

# aside

<aside> ... </aside>

- The aside element represents a section of a page that consists of content that is tangentially related to the content around the aside element, and which could be considered separate from that content.
- testimonials, related products, downloads for a product, pull quote, comments

# Op pagina niveau

