

Web Essentials



Docent



Tom Aertssens

tom.aertssens@ehb.be

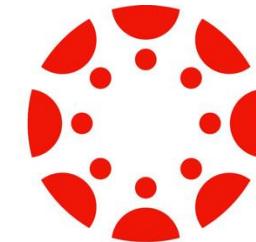
Studiemateriaal

- 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

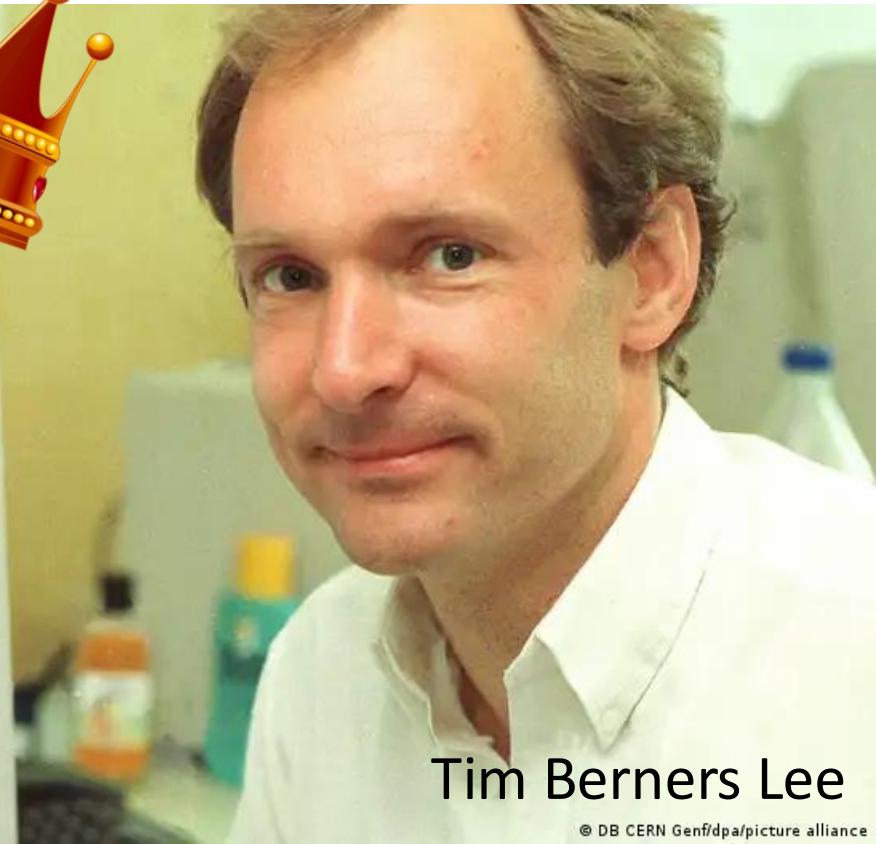
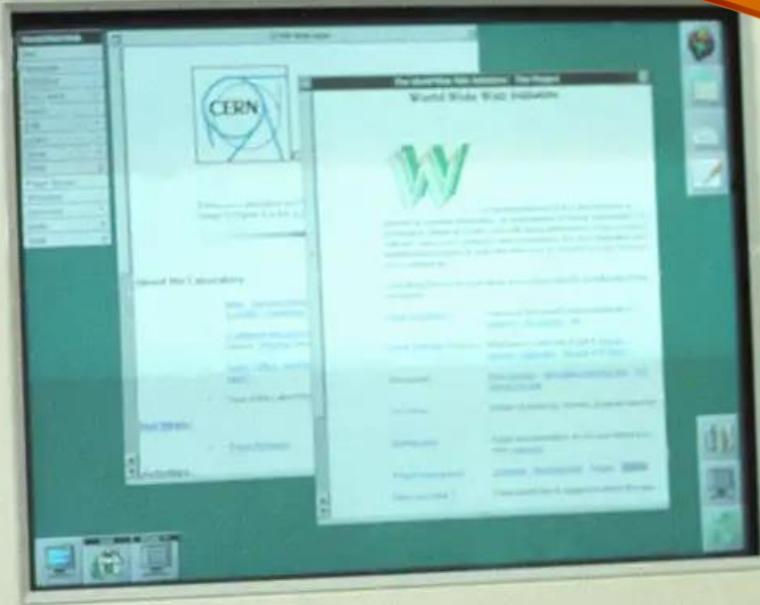
2de examenkans

- 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 "Amazon" in white. Below it is a large, stylized white "A" logo on a blue background. The text "amazon.com" is written in a smaller font below the logo, with "Earth's biggest bookstore" underneath. To the right of the logo, the text "Welcome to Amazon.com Books!" is displayed in a bold, black, serif font. Below this, a blue banner features the text "One million titles, consistently low prices." in white. The main content area has a light gray background. It includes sections for a "SPOTLIGHT! -- AUGUST 16TH" (which is empty), "ONE MILLION TITLES" (describing the catalog and recommended books), "EYES & EDITORS, A PERSONAL NOTIFICATION SERVICE" (describing the service), and "YOUR ACCOUNT" (describing account management). At the bottom, there's a note about creating an account if you don't have one.

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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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)

Information

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

Basic Info:
Email: personna2@scranton.edu
Status: Alumnus/Alumna
Sex: Male
Year: 2004
Concentration: Computing Sciences
Mathematics

Phone: 570.499.4818
High School: Durmore HS '00

Extended Info:
Screenname: ScottPearP?
Looking For: Friendship
Dating: A Relationship
Random play
Whatever I can get
Interested In: Women

Relationship Status: Single
Political Views: Liberal
Interests: Drinking, Football, Basketball, Tennis, saying you're here that

Connection
This is you.

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

Other Schools

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, ftd, biache, etc.), Most Popular Tags (with a list including 2005, airplane, amuro, and, archive, art, arts, arye, asian, baby, basketball, beach, bikes, braze, california, cap, capoeira, car, cars, cat, centraalgestoedel, china, cnt, 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, izquierda, ioco, jumping, kook, landing, landscapes, martial, movie, murderdolls, music, name, nature, netherlands, new, nyc, of, overdramatic, park, party, playing, psoe, pump, racing, rap, reprise, 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



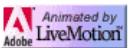
Annotate to collaborate
Review and approval of Adobe PDF files begins with the annotation tools in Acrobat.

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



► **Adobe Store**

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- [LiveMotion special offer: Just \\$99!](#)

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1999





2008

ADOBE® CREATIVE SUITE® 3

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Products and solutions

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

Adobe Marketing Cloud offers the most comprehensive set of solutions to maximize and measure your impact.

Digital analytics ›

Testing and targeting ›

Social marketing ›

Media optimization ›

Web experience management ›

Campaign management ›



It's kind of a big deal. Last chance to save 65% on Creative Cloud.

Student and teachers, get our best deal when you prepay. Hurry - ends March 3.

2012

Students, teachers, and schools

More

Help and learning

More

Downloads

More



Learn how Adobe helps students, teachers, and schools prepare for success and stand out.

Students ›

K-12 schools ›

Higher ed institutions ›



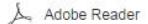
Find help, tutorials, troubleshooting, and tips. Connect with our expert community.

Tutorials and videos ›

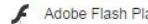
Training and certification ›

Forums ›

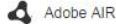
Events ›



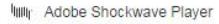
Adobe Reader



Adobe Flash Player



Adobe AIR



Adobe Shockwave Player

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@ Adobe Creative Cloud

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Product help

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For personal and professional use

Company

News room

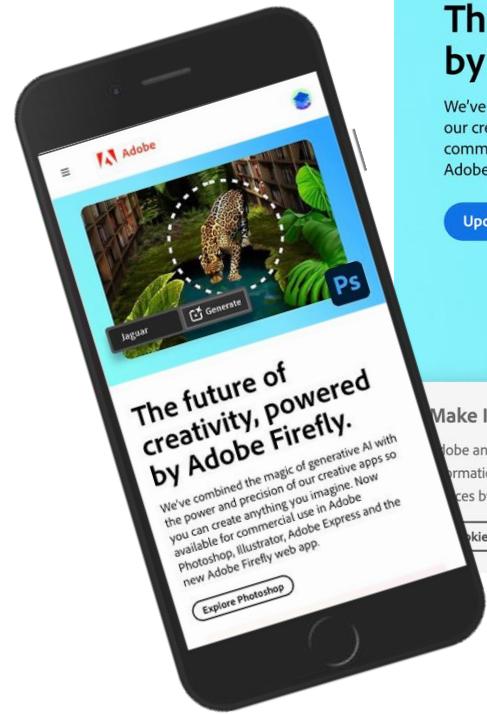


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PDF & E-signatures ▾

Marketing & Commerce ▾

Help & Support ▾



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 for "Introducing CyberDrive" features a small image of a car and the text "Register today for a free CD-ROM.". To the right, there are sections for "ESTATE 300" (Mobile, Affordable, & Smart) showing an image of a laptop, and "MOVIES FROM MARS" featuring a QuickTime VR icon. 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](#)

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



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A little video for everyone. The new iPod nano



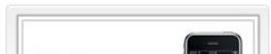
2007



[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**

[Store](#)[Mac](#)[iPod + iTunes](#)[iPhone](#)[Downloads](#)[Support](#) Search[Mac Pro](#)[Mac mini](#)[MacBook](#)[MacBook Air](#)[MacBook Pro](#)[iMac](#)[Mac OS X](#)[Wi-Fi](#)[Accessories](#)[Macs](#)[Applications](#)[Servers](#)

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 9/30.¹ [Shop >](#)

iPhone 16 Pro

Hello, Apple Intelligence.



Available starting 9.20
Apple Intelligence coming this fall²

[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](#)

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Photos 21

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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

User polls [Create a poll](#)

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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



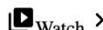
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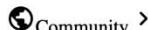
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IMDbPro

For Industry Professionals



All ▾

Met of zonder javascript

IMDb Menu All ▾ Mermaid

The Little Mermaid
2023
Halle Bailey, Jonah Hauer-King

Official Teaser Trailer 1:24

The Little Mermaid 1:30

BACK IN THEATRES

+ The Little Mermaid 1989
Jodi Benson, Samuel E. Wright

TAKE 5

IMDb Menu All ▾ Mermaid

Up next

'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.

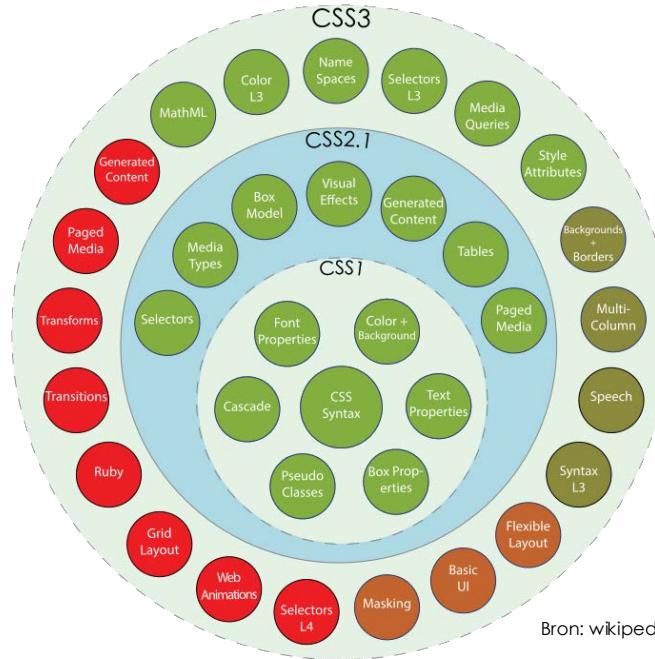
People

```
<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

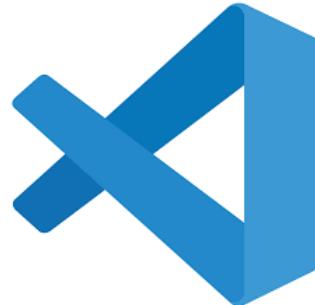




Tools

Visual Studio Code

- Ook gebruikt in andere vakken
- Win + Mac
- Gratis
- code.visualstudio.com



Google Chrome of Firefox

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



HTML



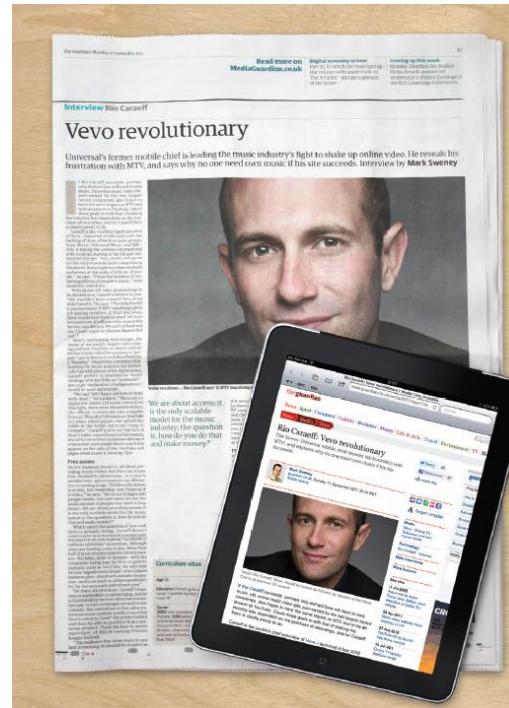
Html5
Eerste start

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

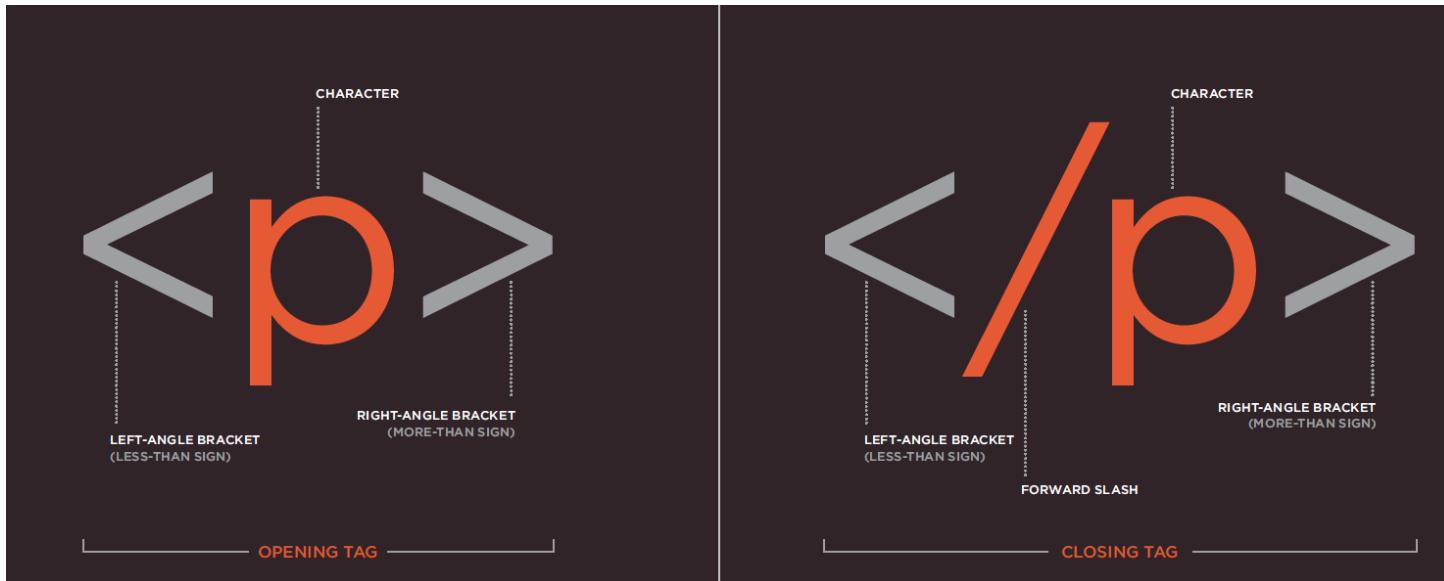
- Html zorgt voor structuur
- Elementen beschrijven de verschillende delen: titels, paragrafen, ...
- **Niet** bedoeld voor design



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

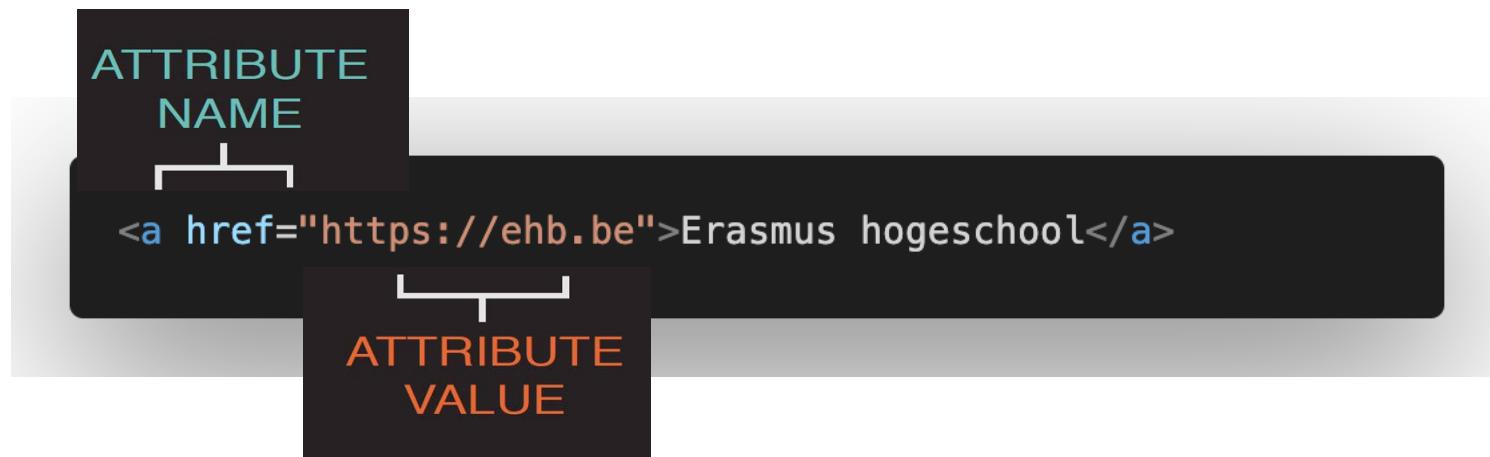


HTML elementen

- 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 **
**
 - vaak gebruikt voor het inbedden van externe elementen
 - Hebben geen eindtag
 -
 kan ook geschreven worden als
 of
 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

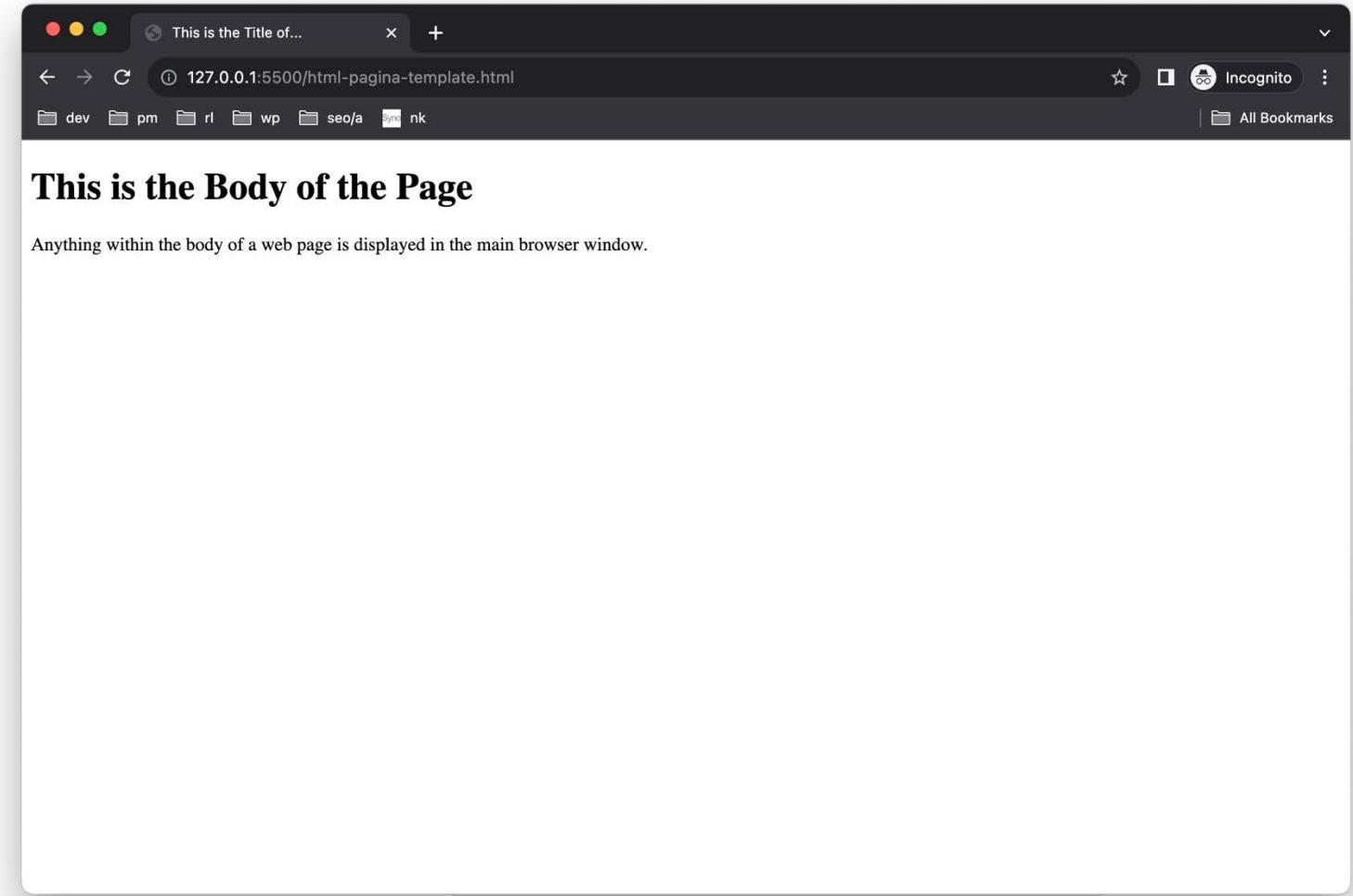
- head
 - meta charset
 - title
- body
 - eigenlijke inhoud
 - zichtbaar in de *viewport*

```
<!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
gets one hundred tons
heavier every day
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 4th September you will learn about E=MC².</p>

<p>The amount of CO₂ in the atmosphere grew by 2ppm in 2009₁.</p>

On the 4th of September you will learn about E=MC².

The amount of CO₂ in the atmosphere grew by 2ppm in 2009₁.

SEMANTIC MARKUP

WHAT IS IT?

Set of elements, for example:

The `` 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 ``

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

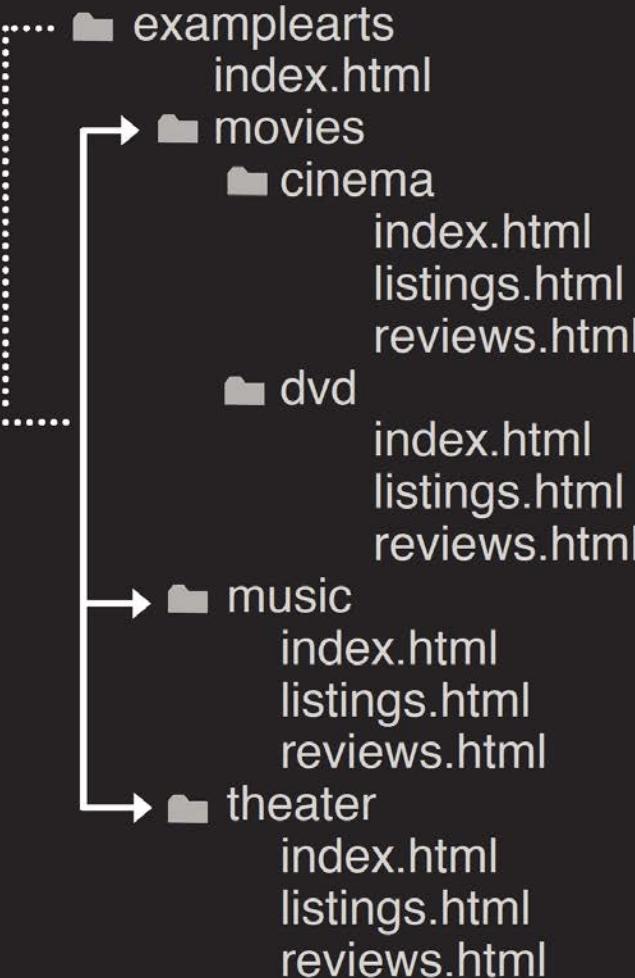
ROOT FOLDER

```
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

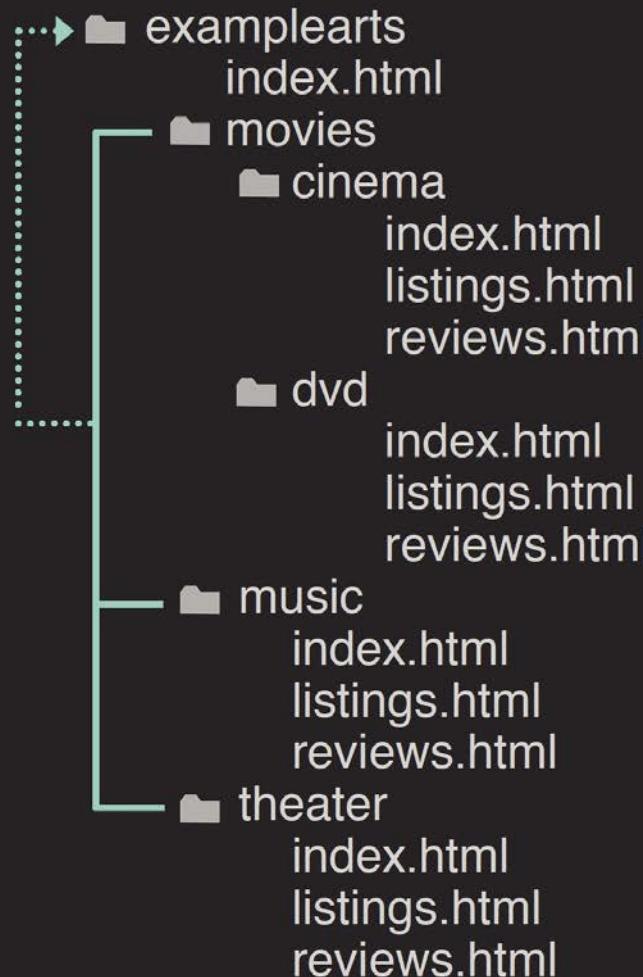
DIRECTORY STRUCTURE

CHILD



DIRECTORY STRUCTURE

CHILD
PARENT



DIRECTORY STRUCTURE

CHILD

PARENT

GRANDCHILD



DIRECTORY STRUCTURE

CHILD

PARENT

GRANDCHILD

GRANDPARENT



RELATIVE URLs

SAME

reviews.html



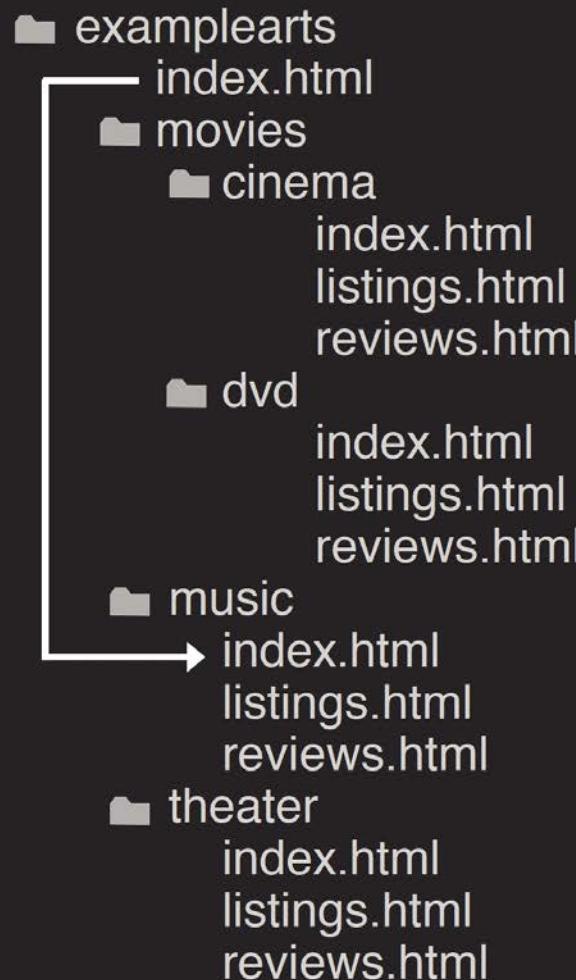
RELATIVE URLs

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

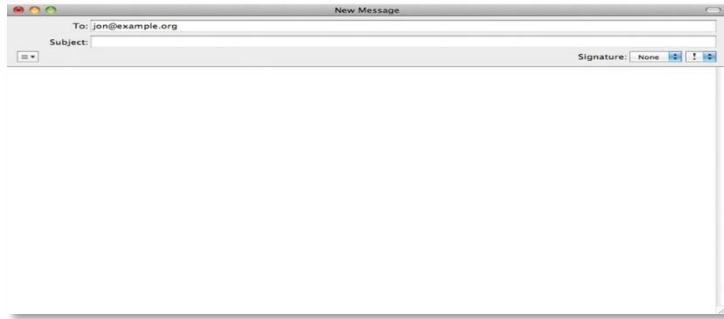
GRANDPARENT

.../../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>  
  
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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)

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    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

