



1. predavanje

WEB programiranje

Uvod

ECTS koeficijent opterećenja studenta

2 ECTS European Credit Transfer System

SATNICA:

Ukupno: 15 sati predavanja + 30 sati vježbi

Tjedno: 2 sata vježbi

Kumulativno predavanja:

1. dolazak: 5 sati nastave (17. 10. 2023.)

2. dolazak: 7 sati (2 sata kolokvij + 5 nastave) (12. 12. 2023.)

3. dolazak: (zadnje predavanje 1 sat + 2 sata kolokvij (23. 01. 2024.)

Ishodi učenja:

Po završetku nastave iz navedenog kolegija student će moći:

- povezati pojmovlje i nazivlje koristeći tehnologije za oblikovanje sadržaja na mreži
- kreirati valjane mrežne stranice prema važećim standardima (HTML)
- oblikovati kreirane mrežne stranice prema pravilima dobre prakse prilikom dizajniranja mrežnih stranica (CSS)
- omogućiti dinamičnost mrežnih stranica na strani klijenta (JS)
- kreirati mrežna mjesta prilagodljiva različitim širinama zaslona uređaja na kojima se prikazuje



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Uvod

Predznanje

- Osnove informacijske tehnologije
- Informatika srednja škola
- Informatika osnovna škola
- Engleski jezik
- Temeljni pojmovi informacijske tehnologije
- Upravljanje i rad sa datotekama
- Internet i komunikacije
- Rad sa elektroničkom poštom
- Vrste računalnih mreža
- Obrada teksta
- Tablične kalkulacije
- Prezentacijske tehnike



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Sadržaji predavanja :

- Upoznavanje s kolegijem, literaturom, načinom rada, ocjenjivanja i vrednovanja
- Povijest HTML-a, CSS-a, JS.
- Razdvajanje prezentacije od sadržaja
- Grupe HTML elemenata
- Grupe CSS svojstava
- Stranice prilagodljive različitim širinama zaslona
- Javascript skriptni programski jezik
- Radne okoline za JS
- Asinkroni način rada



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Upoznavanje s radom

Bodovanje

	max
Domaće zadaće (vježbe)	80
Kontinuirani rad (vježbe)	60
I. kolokvij (predavanje)	30
II. kolokvij (predavanje)	30
Ukupno kolegij	200

Bodovi	Ocjena
0 - 109	1
110 - 125	2
126 - 159	3
160 - 179	4
180 - 200	5



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Povijest oblikovanja mrežnih stranica

SGML

Standard Generalized Markup Language

1986

ISO 8879:1986 Information processing – Text and office systems – Standard Generalized Markup Language (SGML)

Izvori

- <https://www.w3.org/TR/WD-html40-970708/intro/sgmltut.html>
- <https://www.whoishostingthis.com/resources/sgml/>

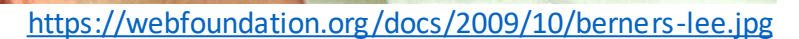


Povijest oblikovanja mrežnih stranica

1989 Tim Berners-Lee

Information Management: A Proposal

<https://www.w3.org/History/1989/proposal.html>





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Povijest oblikovanja mrežnih stranica

1989 - 2004



Pre-W3C Web and Internet Background

- 1945: Vannevar Bush article in Atlantic Monthly describes a photo-electrical-mechanical device called a Memex, for memory extension, which could make and follow links between documents on microfiche.
- 1960: J.C.R. Licklider publishes "Man-Computer Symbiosis."

- 1962: Douglas Engelbart publishes "Augmenting Human Intellect: A Conceptual Framework."

- 1965: Ted Nelson coins the term "Hypertext" in "A File Structure for the Complex, the Changing, and the Indeterminate," 20th National Conference, New York, Association for Computing Machinery.

- 1968: Douglas Engelbart demonstrates Online System (NLS).

- 1980: While consulting for CERN, Tim Berners-Lee writes a program, "Enquire-Within-Upon-Everything", which allows links to be made between arbitrary nodes.

- May: Tim Berners-Lee publishes version 2 of "Information Management: A Proposal."

- End 1990: Development begins for first browser (called "WorldWideWeb"), editor, server, and line-mode communication over Internet in December 1990.

- Dec: First Web server outside of Europe set up at Stanford University.

- Mark Andreessen and colleagues leave NSA to form Mosaic Communications Corp., which later became Netscape.

- Traditional dial-up systems (CompuServe, AOL, Prodigy) begin to provide Internet access.

- Feb: Tim Berners-Lee meets Michael Dertouzos in Zurich to discuss possibility of starting new organization at MIT.

- Apr: Alan Kotok, then at DEC, was CERN to discuss creation of Consortium.

- Oct: W3C created.

- Apr: INRIA becomes W3C Host in Europe.

- Jun: W3C holds first Workshop, on Content Rating, leads to FCS.

- Sep: Kelo University becomes W3C Host in Asia.

- Nov: W3C launches Office program.

- W3C Creates Advisory Board (AB).

- Jul: W3C charts Technical Architecture Group (TAG).

- Jan: ERCIM replaces INRIA as W3C Host in Europe.

- Feb: W3C adopts Royalty-Free Patent Policy.

pre 1979

pre 1989

1989

1990

1991

1992

1993

1994

1995

1996

1997

1998

1999

2000

2001

2002

2003

2004

10

W3C

Starting year of current W3C Activities

Web conference

Web servers

1 10 50 623 10,022 100,000 603,367 ~1.6 million ~3.7 million ~9.5 million ~26 million ~36 million ~35 million ~46+

Geneva (Jun)
Chicago (Oct)

Darmstadt (Apr)
Boston (Dec)

Paris, Largest conference to date.

Santa Clara

Brisbane

Toronto

Amsterdam

Hong Kong

Honolulu

Budapest

New York

Compound Document Formats

Device Independence

Semantic Web

XML Key Management

Quality Assurance

Multimodal Interaction

Web Services

Internationalization



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Povijest oblikovanja mrežnih stranica

Preglednici mrežnih stranica

1991. WorldWideWeb (kasnije preimenovan u Nexus)

1993. Mosaic

1994. Netscape Navigator

1994. Opera

1995. Internet Explorer

2003. Safari

2004. Firefox

2008. Chrome

2015. Edge

2023: Chrome, Firefox, Edge, Safari, Opera

Izvori

- <https://acodez.in/browser-wars/>
- <https://www.livescience.com/20727-internet-history.html>
- <https://midlothianweb.com/history-of-web-browsers/>
- <https://www.pewinternet.org/2014/03/11/world-wide-web-timeline/>



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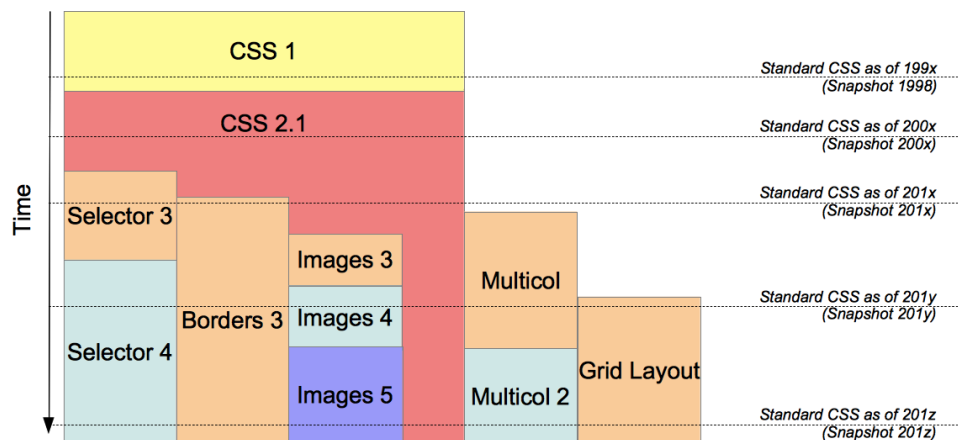
Povijest oblikovanja mrežnih stranica

Verzije HTML

1991. HTML 1.0
1995. HTML 2.0
1997. HTML 3.0
1999. HTML 4.01
2000. XHTML 1.0
2014. HTML 5

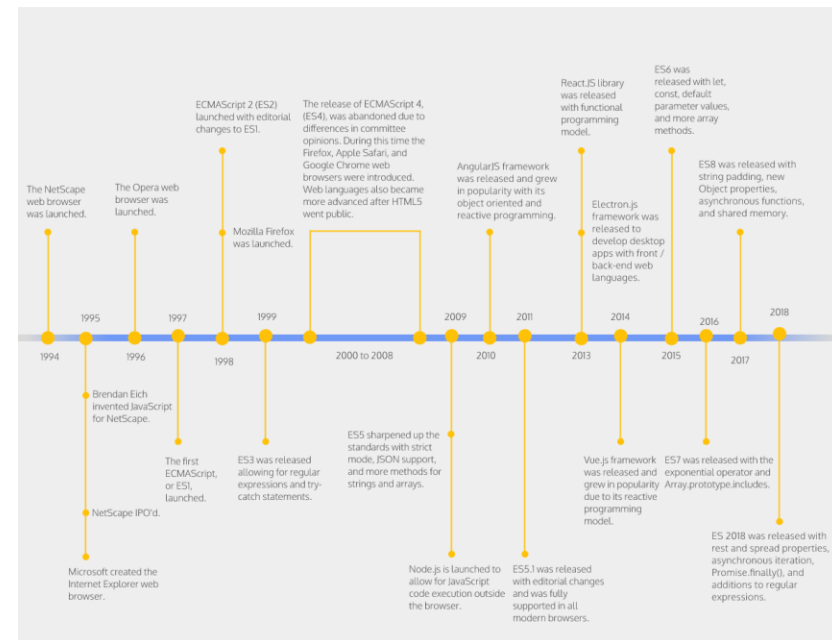
Verzije CSS

1996. CSS 1
1998. CSS 2
1999. CSS 3



https://mdn.mozillademos.org/files/3623/CSS_Modules_and_Snapshots.png

Verzije JavaScript



https://s3.amazonaws.com/codecademy-content/courses/javascript/article-assets/javascript_timeline.svg

Izvori

- <https://www.webhostinggenie.com/list-of-html-versions-with-year-wise/>
- <http://www.corelangs.com/css/basics/versions.html>
- <https://www.codecademy.com/articles/javascript-versions>
- <https://thenewstack.io/brendan-eich-on-creating-javascript-in-10-days-and-what-hed-do-differently-today/>



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Relevantni izvori

- Službena specifikacija HTML: <https://html.spec.whatwg.org/multipage/>
- Službena specifikacija CSS: <https://www.w3.org/Style/CSS/specs.en.html>
- Mozilla developer network: <https://developer.mozilla.org/en-US/docs/Learn>
- Code Cademy Learn HTML 5: <https://www.codecademy.com/learn/learn-html>
- Code Cademy Learn CSS 3: <https://www.codecademy.com/learn/learn-css>
- DevFreeBooks: <https://devfreebooks.github.io>

Ostali izvori

- CSS-TRICKS: <https://css-tricks.com/where-do-you-learn-html-css-in-2019/>
- Front-end Developer Handbook 2019: <https://frontendmasters.com/books/front-end-handbook/2019/>
- Front-end Development mindmap: <https://urlzs.com/s8sE8>
- W3Schools : <https://www.w3schools.com/>

*The site derives its name from the World Wide Web (W3), but **is not affiliated** with the W3C.



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Konferencije

- KulenDazy: <http://www.kulendayz.com/>
- The Geek Gathering: <https://thegeekgathering.org/>
- DigitalLabin: <https://digitalab.in/>
- Shift Conference: <https://shiftconf.co/>
- WeAreDevelopers: <https://events.wearedevelopers.com/>