

Kursintroduction

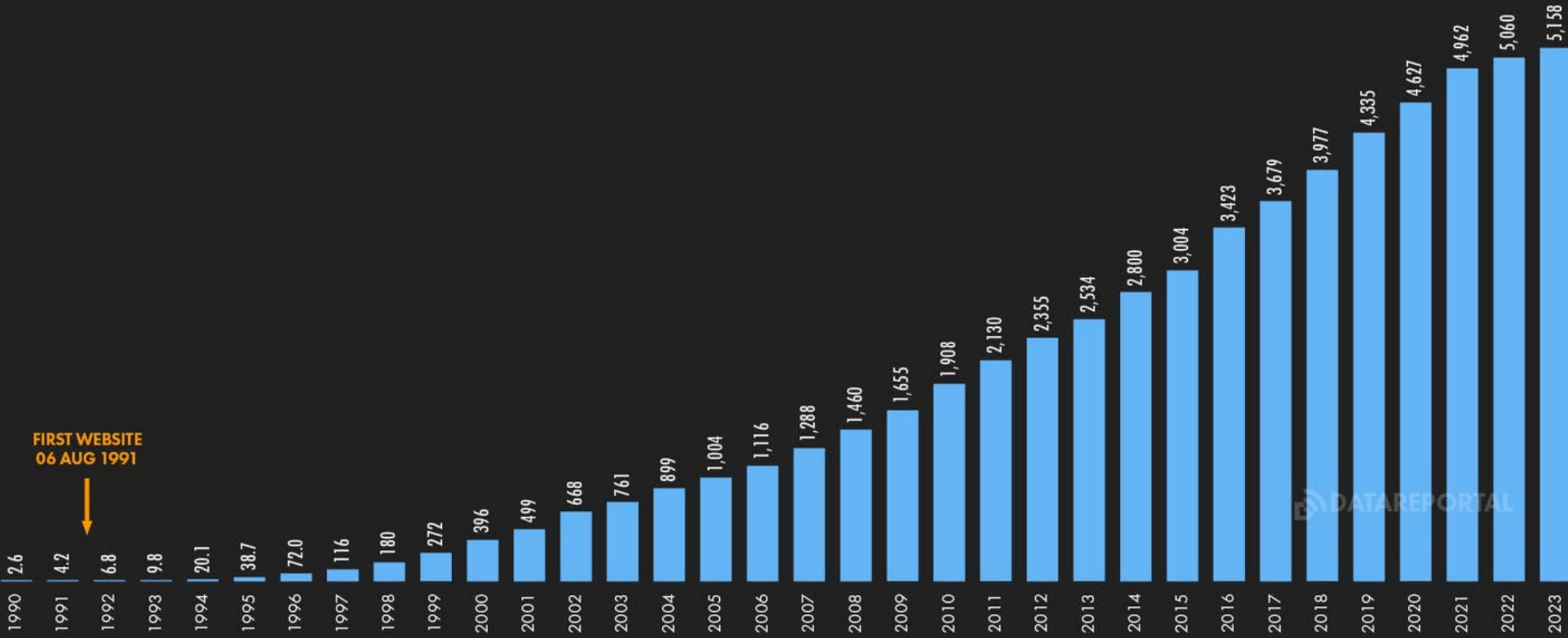
DA395A

Nästan 1.2 miljarder
webbplatser

5.56 miljarder användare av internet

INTERNET USERS: TIMELINE

NUMBER OF INTERNET USERS BY YEAR (IN MILLIONS)



SOURCES: KEPPIOS ANALYSIS; ITU; GSMA INTELLIGENCE; EUROSTAT; WORLD BANK; GOOGLE'S ADVERTISING RESOURCES; CIA WORLD FACTBOOK; CNNIC; APJI; KANTAR & IAMAI; LOCAL GOVERNMENT AUTHORITIES; UNITED NATIONS. **NOTES:** THE TIME REQUIRED TO COLLECT, PROCESS, AND REPORT INTERNET USER RESEARCH DATA MAY MEAN THAT USER FIGURES AND GROWTH TRENDS FOR RECENT PERIODS UNDER-REPRESENT ACTUAL VALUES. SEE NOTES ON DATA FOR FURTHER DETAILS. **COMPARABILITY:** SOURCE AND BASE CHANGES. FIGURES MAY NOT MATCH OR CORRELATE WITH FIGURES PUBLISHED IN PREVIOUS REPORTS. ALL FIGURES USE THE LATEST AVAILABLE DATA, BUT SOME SOURCE DATA MAY NOT HAVE BEEN UPDATED IN THE PAST YEAR. SEE NOTES ON DATA FOR DETAILS.

Dagens Agenda



Dagens Agenda

- Vilka lärare håller i kursen?
- Upprop?
- Vem läser denna kurs?
 - WooClap
- Kursplanen
- Översikt av kursen
 - Kommunikation
 - Kursmoment
 - Examinationsmoment
- Introduktion / repetition om webben

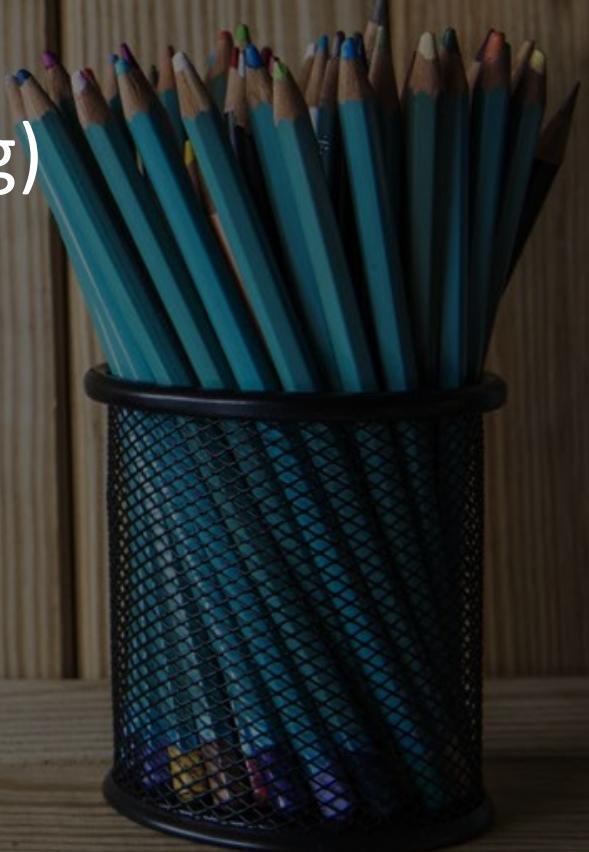
Lärare i kursen



- Anton Tibblin (kursansvarig)
 - anton.tibblin@mau.se
 - 040-66 57672



- Johan Holmberg
 - Johan.holmberg@mau.se
 - 040-6657376



Upprop



Vem läser kursen?

- Informationsarkitekt (termin 4)
- Systemutvecklare (termin 6)
- Samläsning innebär
 - Olika förkunskaper
 - Olika perspektiv på applikationer
 - Samma mål med kursen
 - Samma examinerande uppgifter

Mentimeter

Morris Charts

Line Chart

Year	Red Line	Blue Line
2011	10	5
2012	20	15
2013	28	30
2014	10	40

Area Chart

Year	Green Area
2011	10
2012	8
2013	15
2014	20

Bar Chart

Year	Value
2011	10
2012	35
2013	25
2014	35

Donut Chart

25 %

Sparkline Charts

Line Chart

Bar Chart

Pie Chart

Easy Pie Charts

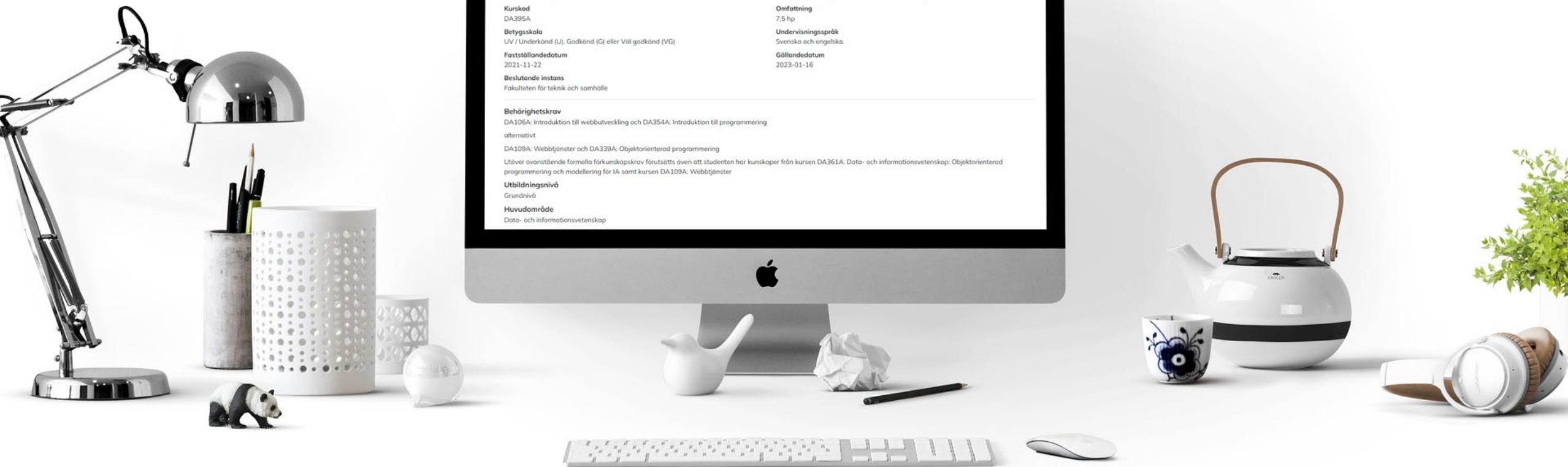
25 %

50 %

75 %

100 %





**MALMÖ
UNIVERSITET**

Sök program och kurser IN ENGLISH Program- eller kurskod

[Sök program och kurser](#) / DA395A / Kursplan våren 2024

Kursplan våren 2024

Benämning
Flerplattformsapplikationer med webbtekniker

Kurskod
DA395A

Betygsskala
UV / Underkänd (U), Godkänd (G) eller Väl godkänd (VG)

Förställningsdatum
2021-11-22

Beslutande instans
Fakulteten för teknik och samhälle

Behörighetskrav
DA106A: Introduktion till webbutveckling och DA354A: Introduktion till programmering alternativt
DA109A: Webbjänster och DA339A: Objektorienterad programmering
Utöver ovanstående formella förkunskapskrav förutsätts även att studenten har kunskaper från kursen DA361A: Data- och informationsvetenskap: Objektorienterad programmering och modellering för IA samt kursen DA109A: Webbjänster

Utbildningsnivå
Grundnivå

Huvudområde
Data- och informationsvetenskap

Engelsk benämning
Cross-platform Applications with Web Technologies

Omfattning
7,5 hp

Undervisningsspråk
Svenska och engelska

Gällande datum
2023-01-16



[Sök program och kurser](#) / [DA395A](#) / Kursplan våren 2024

Kursplan våren 2024

Benämning

Flerplattformsapplikationer med webbtekniker

Kurskod

DA395A

Betygsskala

UV / Underkänd (U), Godkänd (G) eller Väl godkänd (VG)

Fastställandedatum

2021-11-22

Beslutande instans

Fakulteten för teknik och samhälle

Engelsk benämning

Cross-platform Applications with Web Technologies

Omfattning

7,5 hp

Undervisningsspråk

Svenska och engelska.

Gällandedatum

2023-01-16

Behörighetskrav

DA106A: Introduktion till webbutveckling och DA354A: Introduktion till programmering

alternativt

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Utbildningsnivå

Grundnivå

Huvudområde

Data- och informationsvetenskap

Fördjupningsnivå

G1F

Fördjupningsnivå i förhållande till examsfordringarna

Syfte

Kursen syftar till att studenten utvecklar kunskap och färdigheter för att konstruera webbapplikationer anpassade för flera typer av enheter, med fokus på mobila plattformar.

Innehåll

Kursen behandlar:

- Översikt av aktuella webbtekniker
- Möjligheter och begränsningar med webbapplikationer
- Utvecklingsmiljö och arbetsställ
- Konstruktion av webbapplikationer
- Designprinciper och användargränssnitt
- Användning av enhetens hårdvarufunktionalitet

Lärandemål

Kunskap och förståelse

För godkänd kurs ska studenten kunna visa förståelse för:

- grundläggande byggestenar och begrepp vid utveckling av webbapplikationer
- begränsningar och möjligheter för webbapplikationer
- designprinciper och utformning av användargränssnitt för webbapplikationer

Färdighet och förmåga

För godkänd kurs ska studenten kunna:

- konstruera webbapplikationer som uppfyller principer för flerplattformsdesign
- använda enhetens resurser i praktisk tillämpning
- använda lämpliga utvecklingsmiljöer vid konstruktion av webbapplikationer
- söka, samla, värdera och kritiskt tolka information relevant för egna utvecklingsprojekt

Arbetsformer

Föreläsningar/workshops, laborationer, projekthandledning samt självstudier.

Bedömningsformer

Krav för godkänd: Godkända inlämningsuppgifter (5 hp) och godkänt projekt (2.5 hp).

Krav för väl godkänd: Väl godkänd på inlämningsuppgifterna (5 hp) samt godkänt projekt (2.5 hp).

Kurslitteratur och övriga läromedel

- Levin, Michal (2014) Designing Multi-Device Experiences, O'Reilly Media, Sebastopol.
- Weyl, Estelle (2013) Mobile HTML5, O'Reilly Media, Sebastopol.

PRAKTIK ALITETER

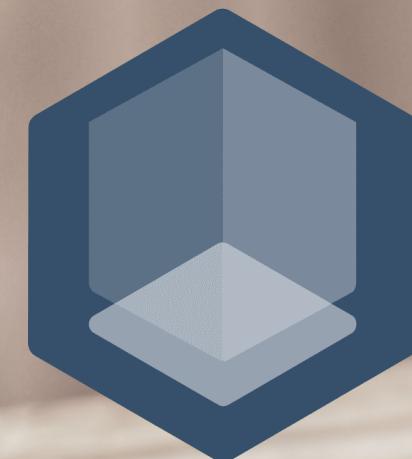




canvas



DISCORD



MAU Webb



DISCORD



Planering

Hur är kursen uppbyggd?

Kursen är
uppb byggd av

Föreläsningar

Inlämningsuppgifter
(med laborationstillfälle)

Peer-reviewing

Projekt



codegrade

Codegrade is a platform for automated assignment grading.

It provides a simple API for teachers to grade assignments.

It also provides a simple API for students to submit assignments.

It is currently available for Python, Java, C, C++, C#, and Go.

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[Introduktion](#)[Kursöversikt](#)[Planering](#)[Projekt](#)[VG-uppgift](#)[1. KURSINTRO & HTML/CSS/JS](#)[2. JAVASCRIPT & DOM](#)[3. RWD & CSS-RAMVERK](#)[4. JQUERY & AJAX](#)[5. STORE AND LOCATE](#)[6. UTVECKLINGSMETODIK](#)[7. JS-RAMVERK](#)

Planering

Nedan kommer en snabb översikt av kursens planering. Vårt schema (med salar) [hittar ni här](#).

- F = Föreläsning
- L = Laboration
- D = Deadline

V.	Måndag	Tisdag	Onsdag	Torsdag	Fredag	L	S
14			F: Kursintro F: Video: HTML/CSS	L: Repetition HTML/CSS & JS			
15	F: JavaScript & DOM		D: Inl. 1	L: JavaScript & DOM			
16	F: RWD & CSS-ramverk		D: Inl. 1	L: RWD & CSS-ramverk	D: Peer-review (Inl. 1.b)		
17		F: jQuery & Ajax D: Inl. 2		L: jQuery & Ajax	D: Peer-review (Inl. 2.b)		
18	F: Store & Locate		L: Store & Locate D: Inl. 3		D: Peer-review (Inl. 3.b)		
19	F: Utvecklingsmetodik	D: Inl. 4		L: Utvecklingsmetodik	D: Peer-review (Inl. 4.b)		
20	F: JS-Ramverk		D: Inl. 5	L: JS-Ramverk			
21	Projekthandledning		Projekthandledning D: Inl. 6	L: Extra			
22	Projekthandledning		Projekthandledning				
23	Projektredovisning		Projektredovisning	Projektredovisning	D: Projekt		

Måndag	Tisdag	Onsdag	Torsdag	Fredag	Lördag	Söndag
08:00						
09:00						
10:00		Jobba med uppgift "b"				
11:00						
12:00						
13:00	13:15 TGIAA22h DA395A-20241- 48118-, DA395A- 20241-TS636- 15:00	Läs igenom uppgifter & börja		13:15 TGIAA22h DA395A-20241- 48118-, DA395A- 20241-TS636- TSANTI NI:A0311, NI:A0314, NI:A0318 Labb: RWD & CSS- ramverk 17:00	Ge peer- feedback	
14:00		Jobba med uppgift "a"			Slutför uppgifterna	
15:00						
16:00						
17:00						
18:00						
19:00						



Kursplan – Bedömningsformer

Krav för godkänd

- Godkända inlämningsuppgifter (5 hp) och godkänt projekt (2.5 hp).

Krav för väl godkänd

- Väl godkänd på VG-grundande inlämningsuppgift samt godkänt på inlämningsuppgifter & projekt.

Språk?

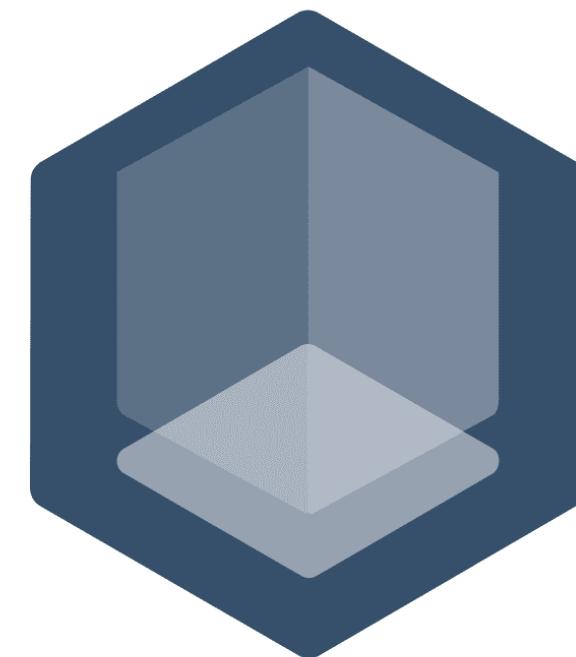




Resurser

- Weyl, Estelle (2013) Mobile HTML5. Using the latest today, O'Reilly Media
- Internetbaserade resurser

<https://mau-webb.github.io/resurser/da395a-vt25/>

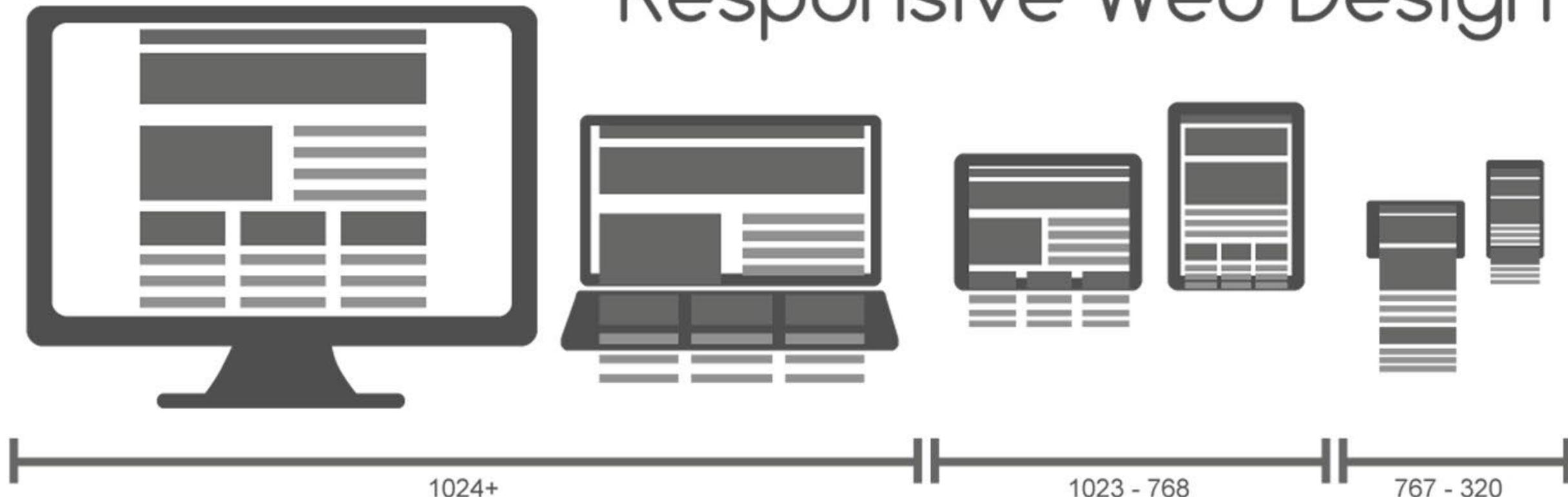




SO, WHAT IS IT YOU WOULD SAY

YOU DO HERE?

Responsive Web Design



Internet != WWW





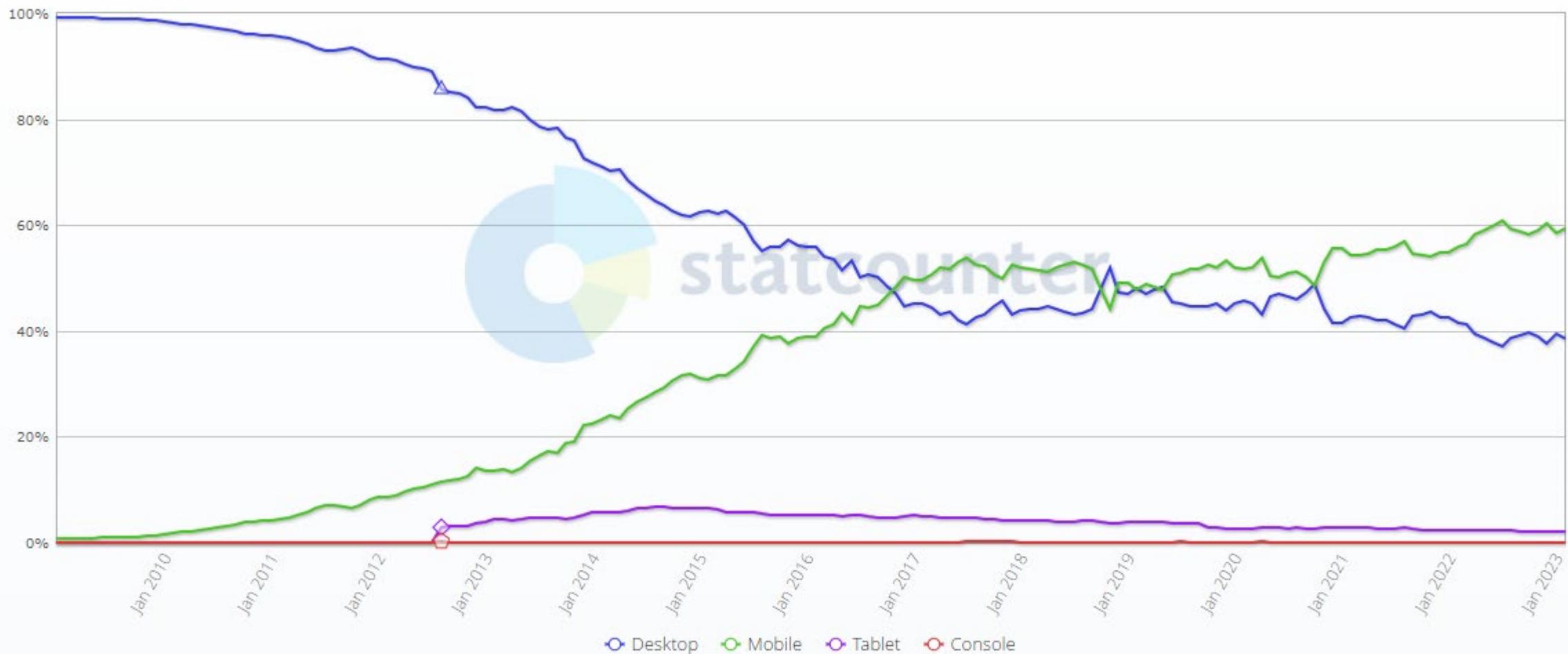




http://www.via

Desktop vs Mobile vs Tablet vs Console Market Share Worldwide

Jan 2009 - Feb 2023

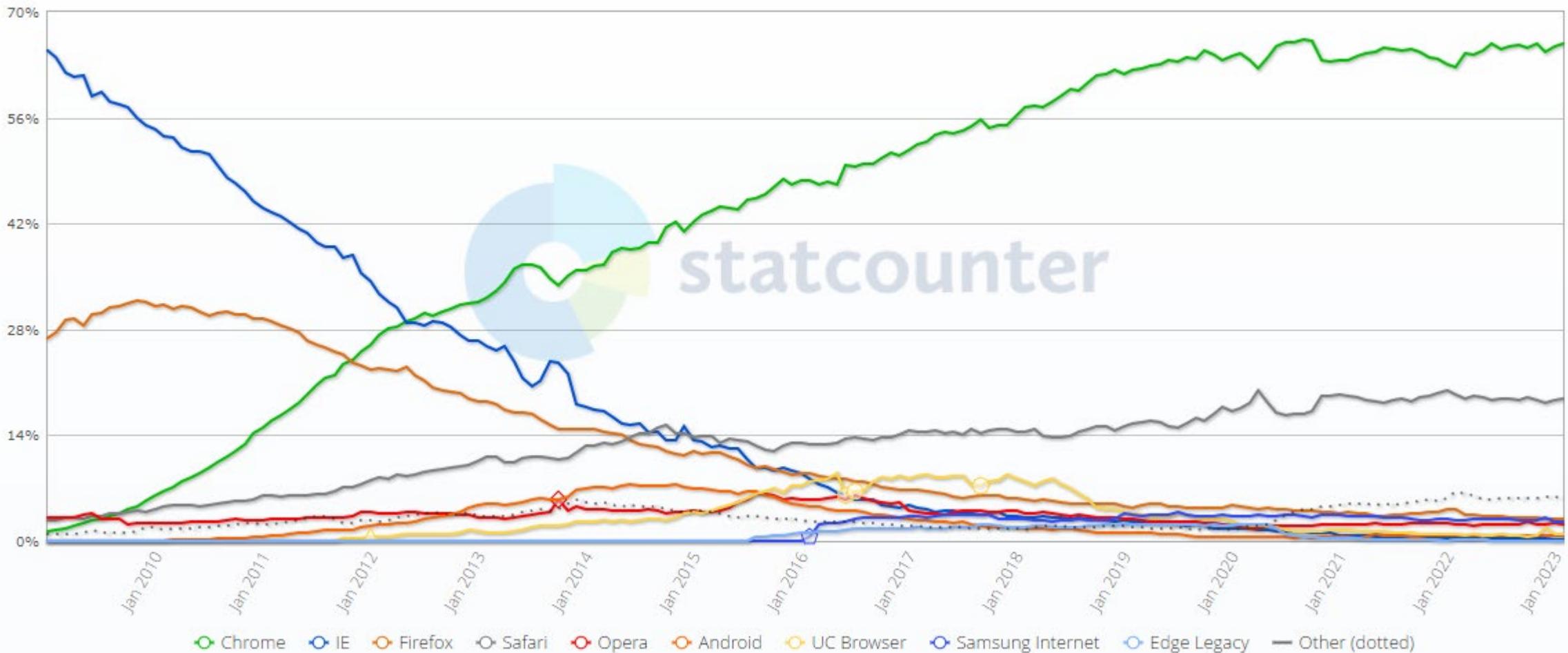
[Edit Chart Data](#)[Save Chart Image \(.png\)](#)[Download Data \(.csv\)](#)[Embed HTML](#)

<div id="all-comparison-ww-monthly-200901-202302" width="600" height="400">

Browser Market Share Worldwide

Jan 2009 - Feb 2023

Edit Chart Data



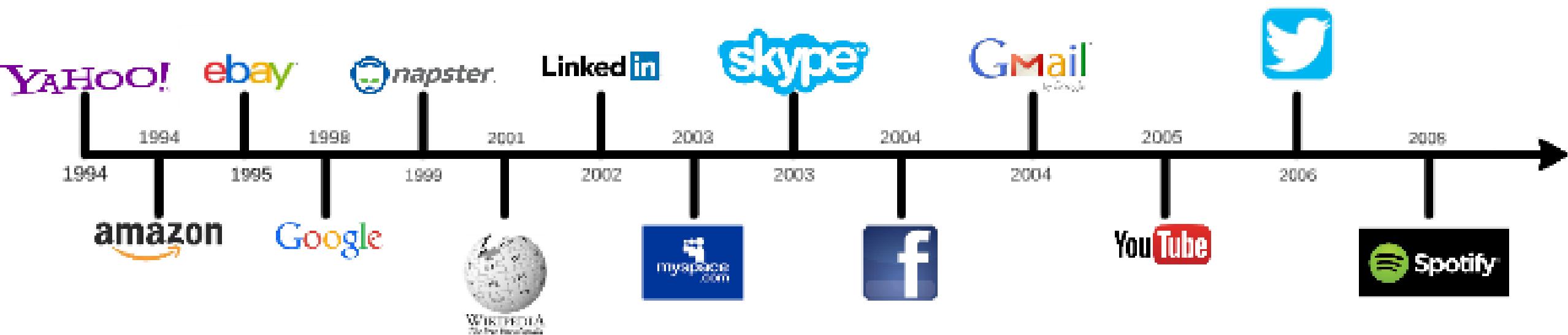
[Save Chart Image \(.png\)](#)

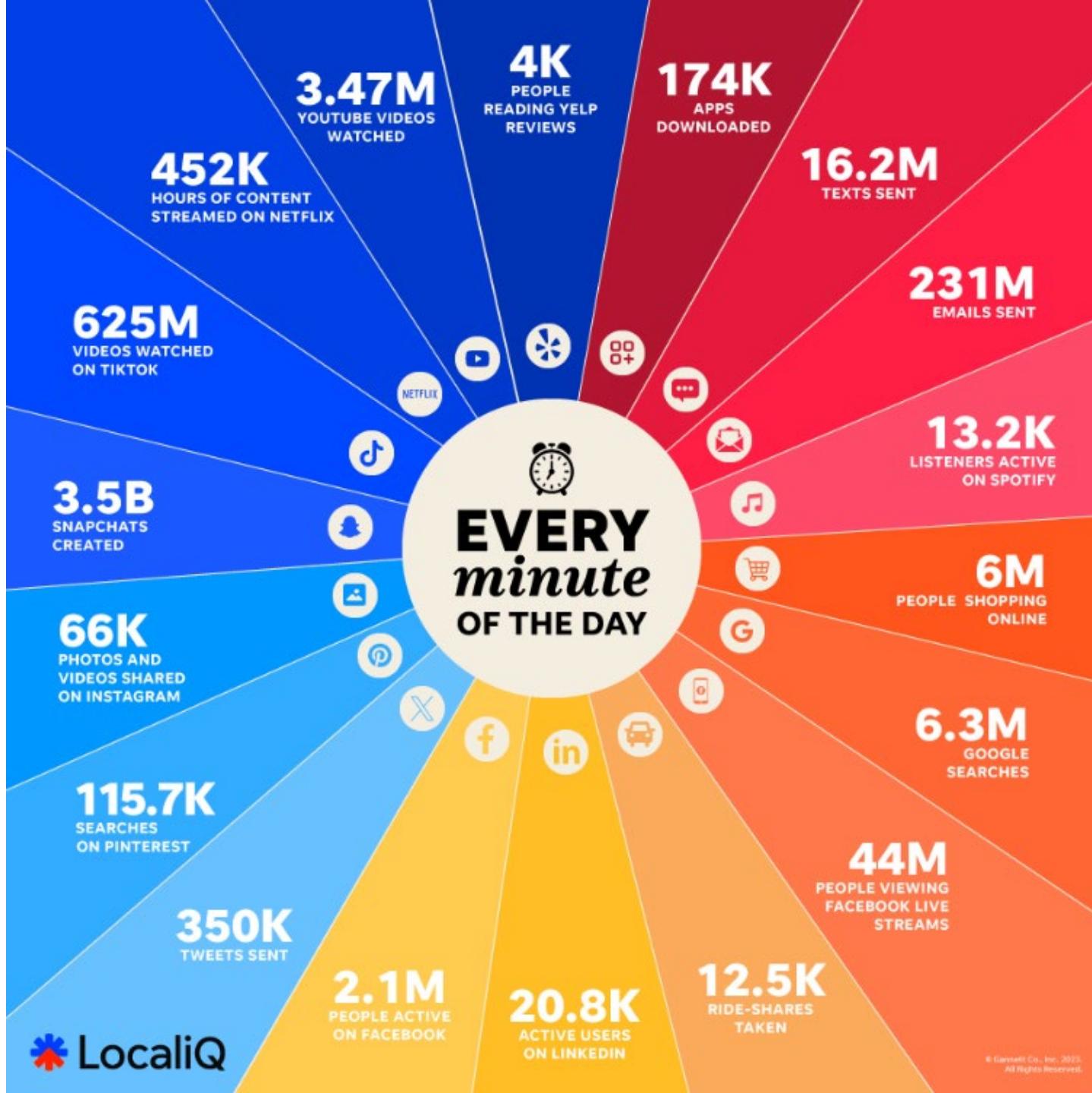
[Download Data \(.csv\)](#)

[Embed HTML](#)

```
<div id="all-browser-ww-monthly-200901-202302" width="600" height="400"></div>
```

Internet History Timeline









1991 – World wide web

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?](#)

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](#)

A list of some people involved in the project.

[History](#)

A summary of the history of the project.

[How can I help ?](#)

If you would like to support the web..

[Getting code](#)

Getting the code by [anonymous FTP](#), etc.

1994 - Yahoo



- [Arts and Humanities](#) - [Architecture](#), [Photography](#), [Literature](#)...
- [Business and Economy \[Xtra!\]](#) - [Companies](#), [Investments](#), [Classifieds](#)...
- [Computers and Internet \[Xtra!\]](#) - [Internet](#), [WWW](#), [Software](#), [Multimedia](#)...
- [Education](#) - [Universities](#), [K-12](#), [College Entrance](#)...
- [Entertainment \[Xtra!\]](#) - [Cool Links](#), [Movies](#), [Music](#), [Humor](#)...
- [Government](#) - [96 Elections](#), [Politics \[Xtra!\]](#), [Agencies](#), [Law](#), [Military](#)...
- [Health \[Xtra!\]](#) - [Medicine](#), [Drugs](#), [Diseases](#), [Fitness](#)...
- [News and Media \[Xtra!\]](#) - [Current Events](#), [Magazines](#), [TV](#), [Newspapers](#)...
- [Recreation and Sports \[Xtra!\]](#) - [Sports](#), [Games](#), [Travel](#), [Autos](#), [Outdoors](#)...
- [Reference](#) - [Libraries](#), [Dictionaries](#), [Phone Numbers](#)...
- [Regional](#) - [Countries](#), [Regions](#), [U.S. States](#)...

1995 - Altavista



Search and Display the Results

Tip: To find an old friend or information about someone, try: **Santa Claus** or "**Santa Claus**"

Using a capital letter ensures that only that capitalization will be found.

ALTAVISTA

AltaVista gives you access to the largest Web index: 30 million pages found on 275,600 servers, and four million articles from 14,000 Usenet news groups. It is accessed over 20 million times per weekday.

NEWS FROM ALTAVISTA

AltaVista Search is **your** favorite search service! Over 2.5 billion hits to date, and a top ten rating from [100 Hot Web Sites](#).
Mile High Tower rises in Cyberspace. [AltaVista ForumForum](#) is open for business!

POWERED BY [DIGITAL UNIX](#), [DIGITAL ALPHA](#) AND [ALTAVISTA SEARCH SOFTWARE](#)

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[AltaVista Software](#)

*** Check out our NEW [Australian Mirror Site](#) ***

1995 - Amazon



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.

1995 - Ebay

Auction Web

[Menu] [\[Listings\]](#) [\[Buyers\]](#) [\[Sellers\]](#) [\[Search\]](#) [\[Contact/Help\]](#) [\[Site Map\]](#)

Welcome to today's online marketplace...

...the market that brings buyers and sellers together in an honest and open environment...

Welcome to our community. I'm glad you found us. AuctionWeb is dedicated to bringing together buyers and sellers in an honest and open marketplace. Here, thanks to our [auction format](#), merchandise will always fetch its market value. And there are plenty of great deals to be found!

[Take a look at the listings](#). There are always several hundred auctions underway, so you're bound to find something interesting.

If you don't find what you like, take a look at our **Personal Shopper**. It can help you search all the listings. Or, it can keep an eye on new items as they are posted and let you know when something you want appears. If you want to let everyone know what you want, post something on our [wanted page](#).

If you have something to **sell**, start your auction instantly.

Welcome to eBay's AuctionWeb.

Join our community. Become a registered user. Registered users receive [additional benefits](#) such as daily updates and the right to participate in our user feedback forum and the bulletin board.

1998 - Google



Search the web using Google!

10 results ▾

Index contains ~25 million pages (soon to be much bigger)

About Google!

[Stanford Search](#) [Linux Search](#)

Get Google! updates monthly!

[Archive](#)

Copyright ©1997-8 Stanford University

2003 - LinkedIn

LinkedIn
Your network is bigger than you think

[Sign In](#)

Already a member?
[Sign In](#)

Lost Your Invitation?
Enter your email address here, and we'll send you a replacement:

[Send Replacement](#)

LinkedIn makes your professional network faster and more powerful.



You're already connected to the people you need to reach your business goals — through the business connections you already have.

Make contact with thousands of professionals, [through trusted connections](#), and help yourself and your colleagues get it done.

Join Today

2004 - thefacebook

The screenshot shows the homepage of thefacebook.com. At the top right, there's a blue header bar with the text "[thefacebook]" in white, and links for "login", "register", and "about". On the left side, there's a sidebar featuring a small profile picture of a person with blonde hair, followed by fields for "Email:" and "Password:", and buttons for "register" and "login". The main content area has a large title "[Welcome to Thefacebook]" in bold black text. Below it, a paragraph reads: "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 registered, you can log in." At the bottom of the page, there are links for "about", "contact", "faq", "terms", and "privacy", followed by the text "a Mark Zuckerberg production Thefacebook © 2004".

[thefacebook]

login register about

Email:

Password:

register

login

Welcome to Thefacebook!

[Welcome to Thefacebook]

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:

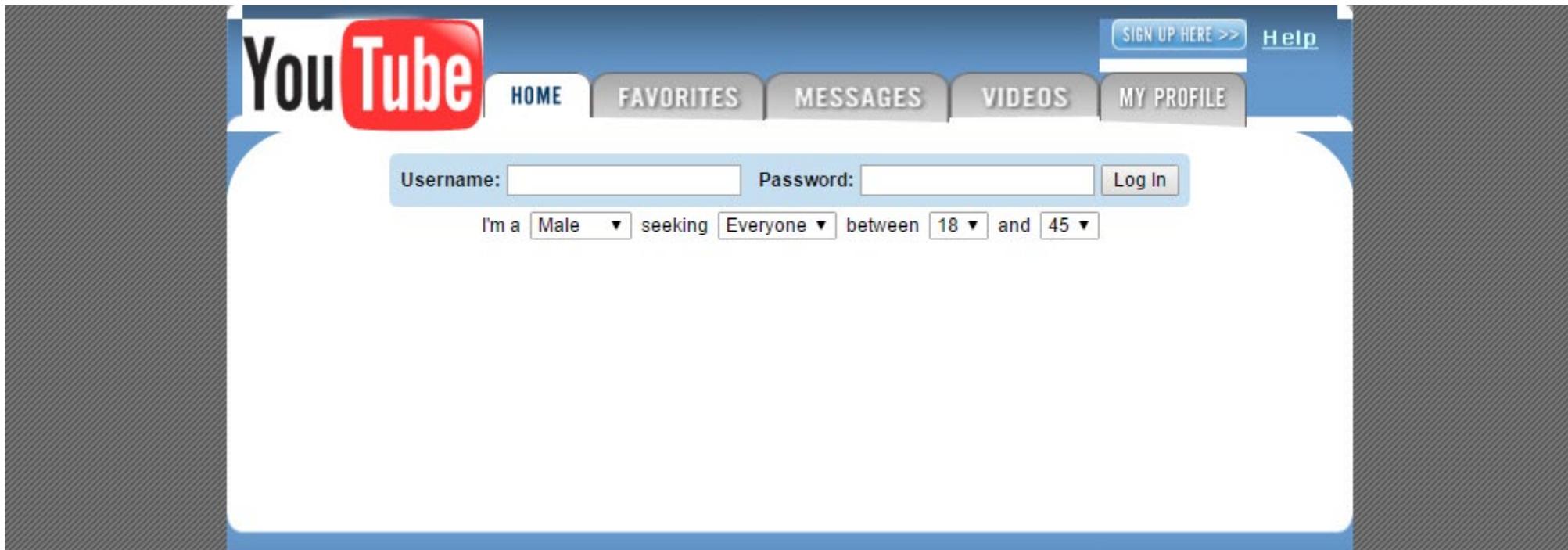
- Search for people at your school
- Find out who are in your classes
- Look up your friends' friends
- See a visualization of your social network

To get started, click below to register. If you have already registered, you can log in.

Register Login

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

2005 - YouTube



[About Us](#) | [Terms of Use](#) | [Privacy Policy](#) | Copyright © 2005 YouTube, LLC™

2006 - Twitter

The screenshot shows a web browser window titled "twtr" with the URL "http://twtr.com/t/account/identify". The page features a large green "twitter" logo at the top. Below it is a promotional message: "Use twtr to stay in touch with your friends all the time. If you have a cell and can txt, you'll never be bored again...E V E R !". On the left, there are two rounded boxes: "What your friends are" showing updates from Kevin Systrom, Jeremy, and Katie, and "txt (or) What are you doing?" with a text input field and a "Send" button. At the bottom, there are "timeline" and "what up?" sections. On the right, there's a "Sign in" form with fields for mobile number and password, a "Remember me" checkbox, and a "Sign in" button. Below the sign-in form is a "New? Sign up!" link and a note about verifying the user's number.

twtr

Gmail – Inbox Google Calendar Valleywag Welcome to Flickr! del.icio.us/popular Google AdSense

Gmail – Inbox twtr

twitter

Use twtr to stay in touch with your friends all the time. If you have a cell and can txt, you'll never be bored again...E V E R !

What your friends are

Kevin Systrom babysitting
Jeremy home - boys to be
Katie It's my birthday! (about)

txt (or)
What are you doing?

Timeline

follow along with what your friends are doing throughout the day

what up?

send updates from your cell or from the web about what's in yr head

Sign in.

Mobile number (or email)

Password (or PIN)

Remember me

Sign in

New? Sign up!

twtr works best when updated from your mobile phone. To verify you are you, we'll need your number.

Mobile number

2008 - Dropbox



Varför läser vi denna kurs?

För att få ett perspektiv på
mobil webbutveckling

- Vilka alternativ finns?
- Vilka fördelar & nackdelar innehåller webben för handhållna enheter?
- Vilka möjligheter och begränsningar erbjuder dagens webblösningar?

Ge en inblick i mobil
webbutveckling

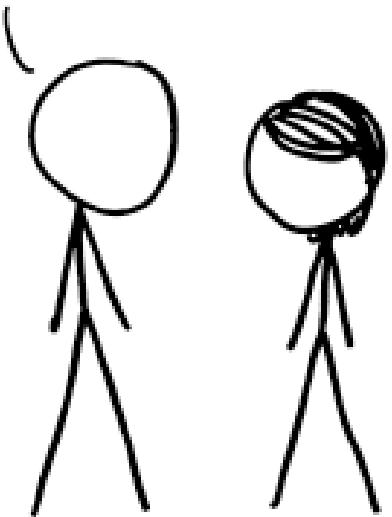
- Vad kan HTML5, CSS3 & JavaScript erbjuda?
- Vilka externa bibliotek/ramverk finns för
 - Utökad funktionalitet
 - Effektivisering/optimering av kod

Hur vi kan använda
webbtekniker för utveckling
med fokus på flera plattformar
(iOS, Android, Windows, etc.)

- Möjligheter
- Begränsningar
- Hybridlösningar?

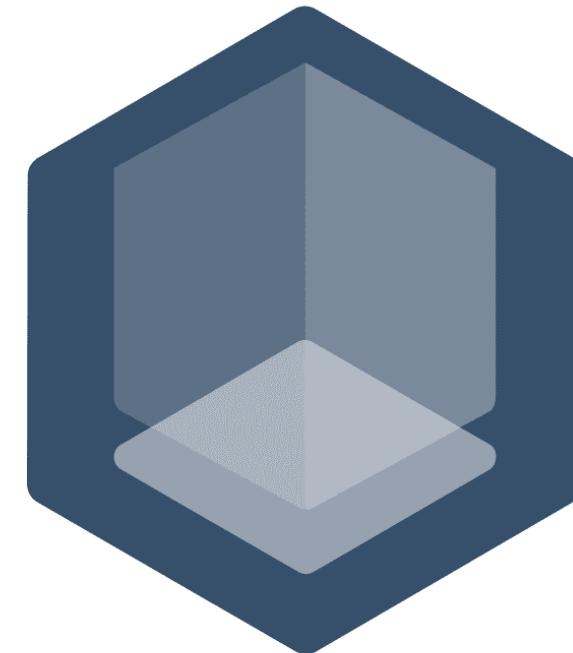
INSTALLING THINGS HAS
GOTTEN SO FAST AND PAINLESS.

WHY NOT SKIP IT ENTIRELY,
AND MAKE A PHONE THAT HAS
EVERY APP "INSTALLED" ALREADY
AND JUST DOWNLOADS AND RUNS
THEM ON THE FLY?



I FELT PRETTY CLEVER UNTIL I
REALIZED I'D INVENTED WEBPAGES.

<https://mau-webb.github.io/resurser/da395a-vt24/>



MAU Webb