



Att bygga webbplatser för olika enheter,
snabbt, effektivt och kvalitativt



A grayscale photograph of a person from the waist up, wearing a dark Santa hat and a light-colored shirt. They are holding a large, wrapped gift box with red and gold ribbon. The background is a plain, light color.

Frågor om kursen?

VT2021

Startsida

Anslag

Moduler

Uppgifter

Omdömen

Personer

Kalender

Inkorg

Historik

Hjälp

Inlämningsdetaljer

Omdömen är inte tillgängliga eftersom läraren arbetar på dem.

Inlämningsuppgift 1.b - JavaScript: DOM

Teststudent inlämnad 27 mar kl 18:45

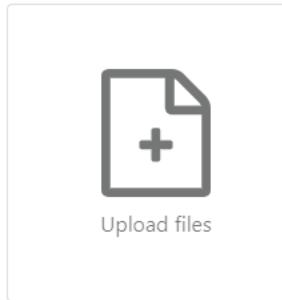
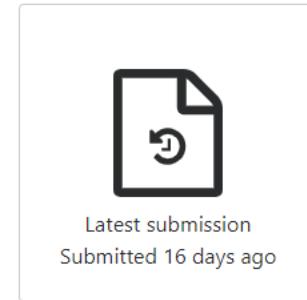
Inlämningsuppgift 1.b - JavaScript: DOM

Due at 2021-04-12 00:59

Course feedback



Codegrade



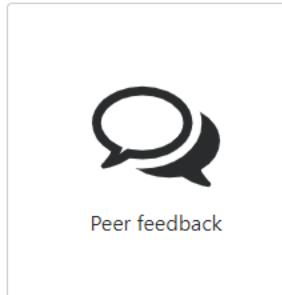
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Lägg till en kommentar:

Mediakommentar

Bifoga fil

Spara



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Inlämningsuppgift 1.b - JavaScript: DOM

Teststudent inlämnad 27 mar kl 18:45

[←](#) Inlämningsuppgift 1.b - JavaScript: DOM Due at 2021-04-12 00:59

Course feedback  

User	# Comments
[Redacted]	0
[Redacted]	0

This lists all the students that you have been assigned to give peer feedback. You have until 2021-04-14 00:59 to complete your feedback.

Du kan inte se alla kommentarer just nu eftersom uppgiften håller på att bedömas

Lägg till en kommentar:

Mediakommentar Bifoga fil

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Uppgifter

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Inlämningsuppgift 1.b - JavaScript: DOM

Teststudent inlämnad 27 mar kl 18:45

at 2021-04-09 16:26

Code Feedback Overview AutoTest CF

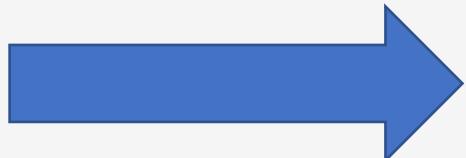
```
1. let buttonSuccess = document.getElementById("success");
2. let buttonError = document.getElementById("error");
3. let buttonInfo = document.getElementById("info");
4. let divMessage = document.getElementById("message-box");
5.
6. buttonSuccess.addEventListener("click", () => {
7.   ...divMessage.className = "success";
8. });
9.
10. buttonError.addEventListener("click", () => {
11.   ...divMessage.className = "error";
12. });
13.
14. buttonInfo.addEventListener("click", () => {
15.   ...divMessage.className = "info";
16. });
```

Lägg till en kommentar:

Mediakommentar Bifoga fil

Spara

assignment_1.css
assignment_1.html
assignment_1.js
assignment_2.css



Inlämningsuppgift 1.b



Lösningsförslag för uppgiften hittar ni [här](#). Det kan vara en god idé att använda sig utav dessa när det kommer det till *peer-reviewing*-uppgiften.



Inlämningsuppgiften är **individuell**. Det betyder att studenten enskilt ska utforma och skriva sin inlämning samt kunna redogöra för alla delar av den. Det är så klart inte förbjudet att diskutera uppgiften. Men viktigt är alltså att det man lämnar in representerar ens egna arbete.

Syfte med uppgiften:

- att öva på att använda Document Object Model (DOM).
- att kombinera tidigare kunskaper med funktionalitet via DOM.

Läs uppgifterna nedan noga och ändra / skriv bara kod där det uttryckligen uppmanas i uppgiftsbeskrivningen. Avslutningsvis vill vi bara påminna att denna inlämningsuppgift kommer att få *peer reviews* från två av dina kursare. Skriv därför din kod med fokus på tydlighet och kommentera där det är nödvändigt.



Denna uppgift (som består av tre mindre delar) kommer bl.a. att automaträttas genom testfall. Detta innebär att det är väldigt **viktigt** att ni följer instruktionerna noga. För att underlätta detta har vi förberett färdiga mallar som ni ska utgå från. Ni laddar ner dessa mallar [här](#).

I slutet av denna uppgift finner ni både [kodexempel](#) och [länkar till relevant dokumentation](#).

Uppgift 1

Lmallarna som ni laddat ned ovan (det är filerna [assignment_1.](#), som är relevanta för denna del) finns en HTML-fil*



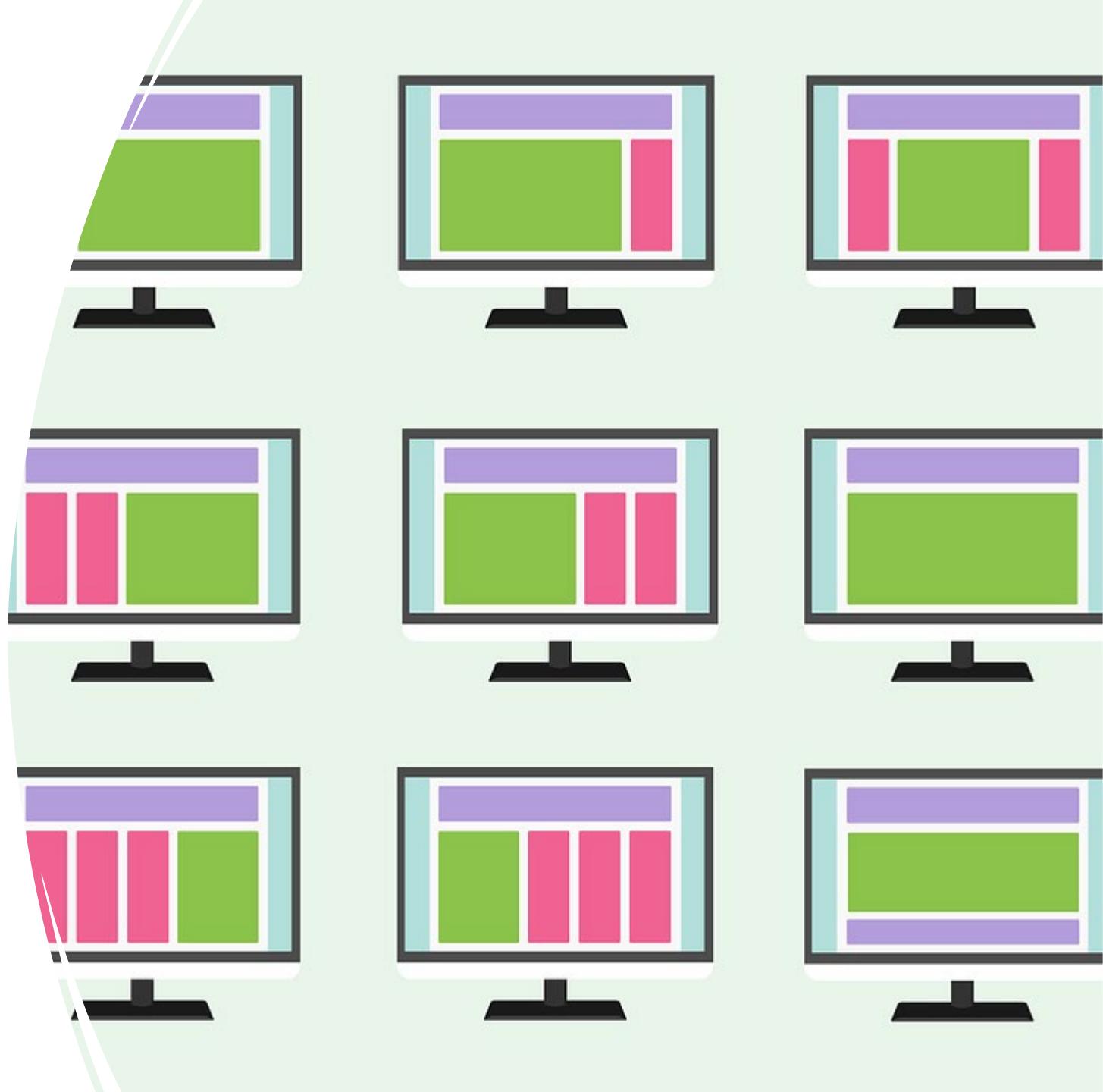
Dagens Agenda

- HTML & CSS: Skapa layout
 - CSS Flexbox
 - CSS Grid
- Responsiv webbdesign
 - Designa för olika enheter
 - Dator
 - Surfplatta
 - Mobiltelefon
 - CSS Breakpoints
- CSS (och JS) Ramverk
 - Bootstrap
 - Layout
 - Komponenter
 - + Andra ramverk



CSS
IS
AWESOME

Layout

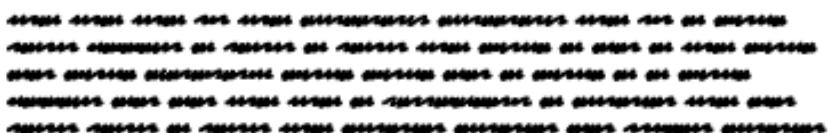
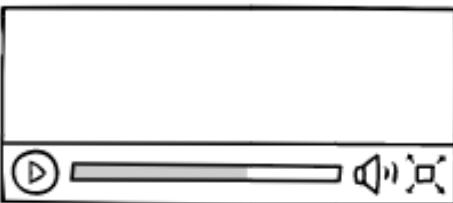
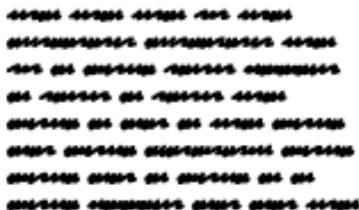




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Awesome image caption



Awesome image caption



Awesome image caption



Awesome image caption

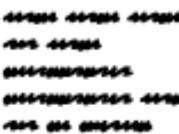


Awesome image caption

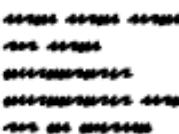


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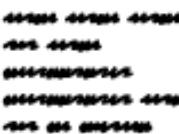
News



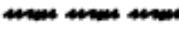
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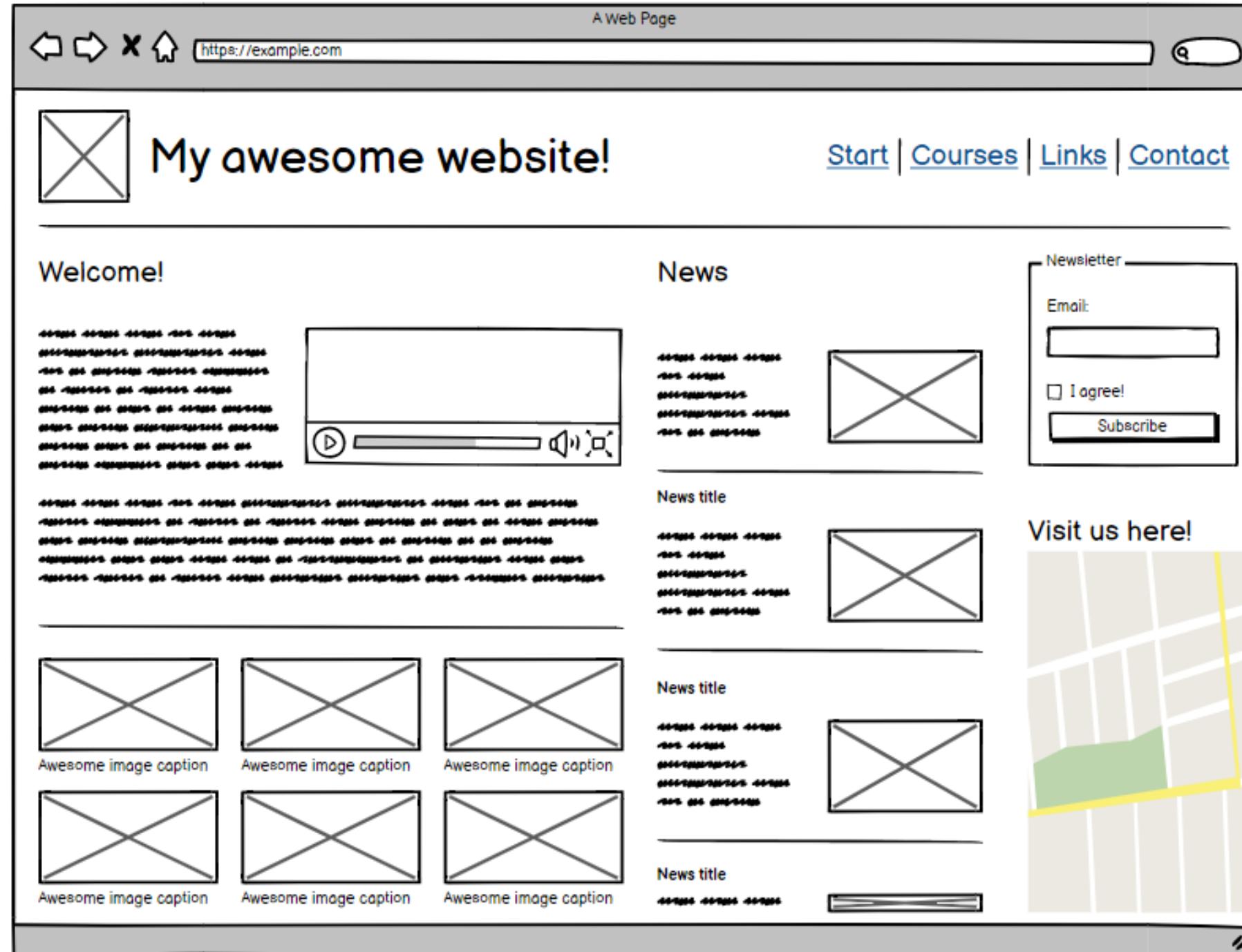
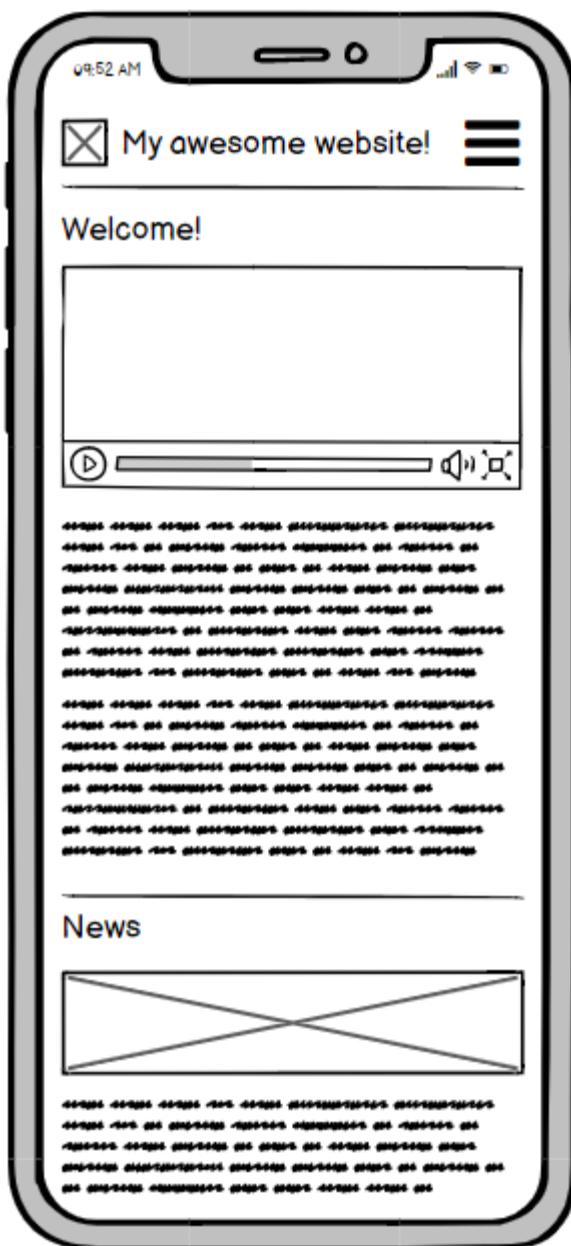
Email:

I agree!

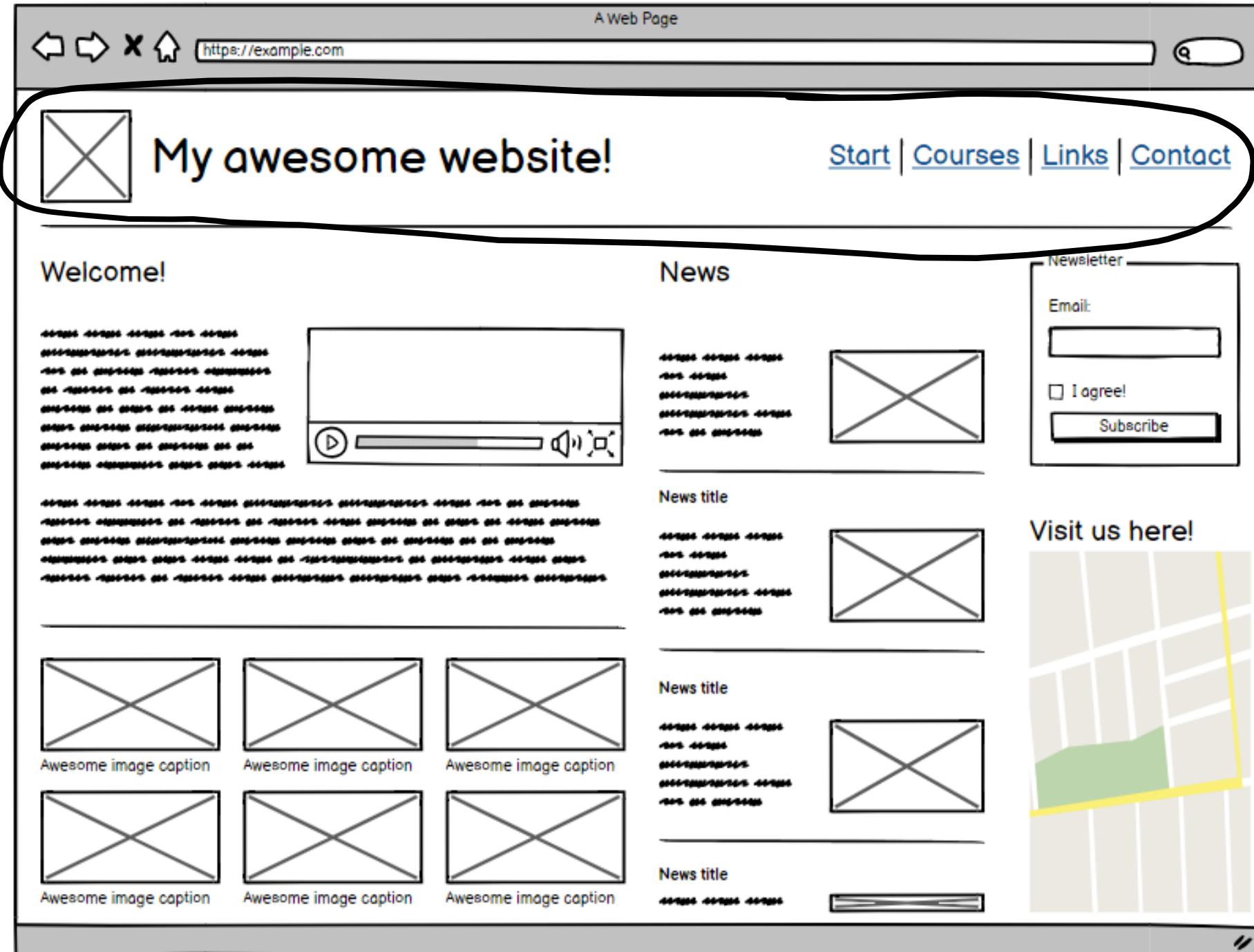
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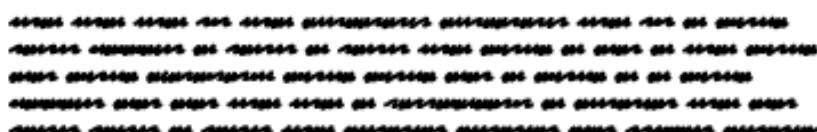
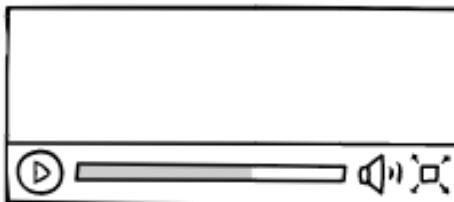
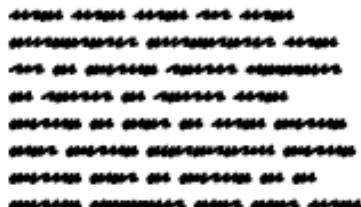




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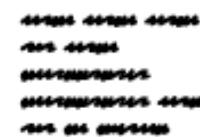


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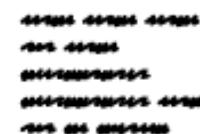
Awesome image caption

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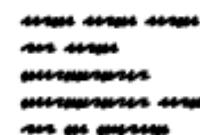
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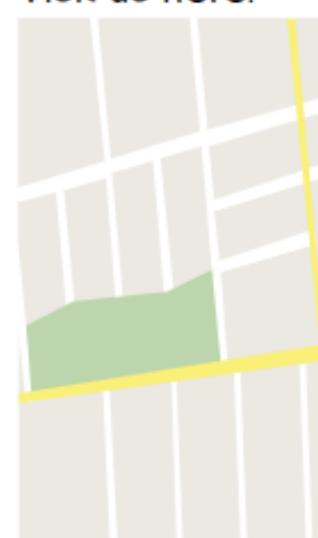
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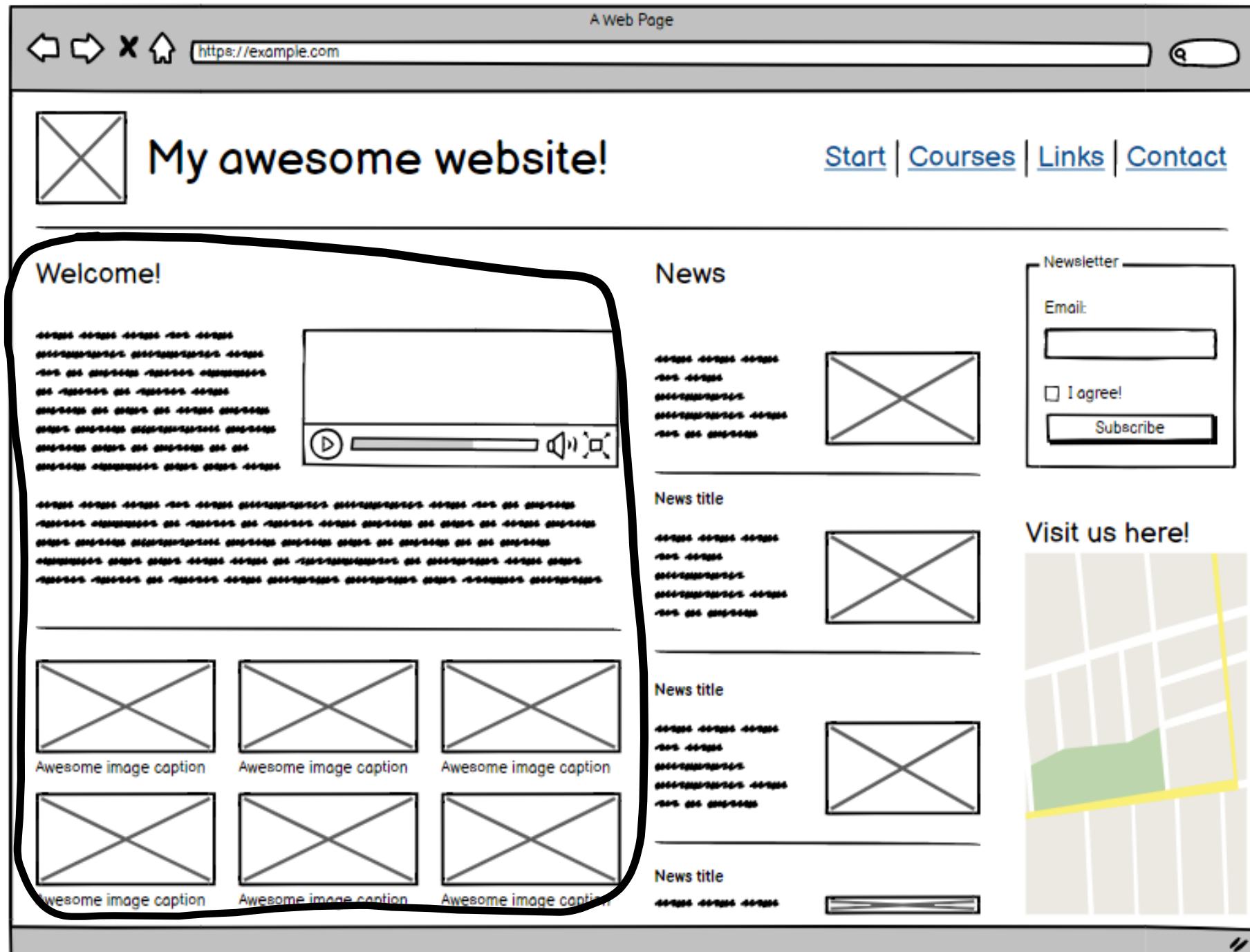
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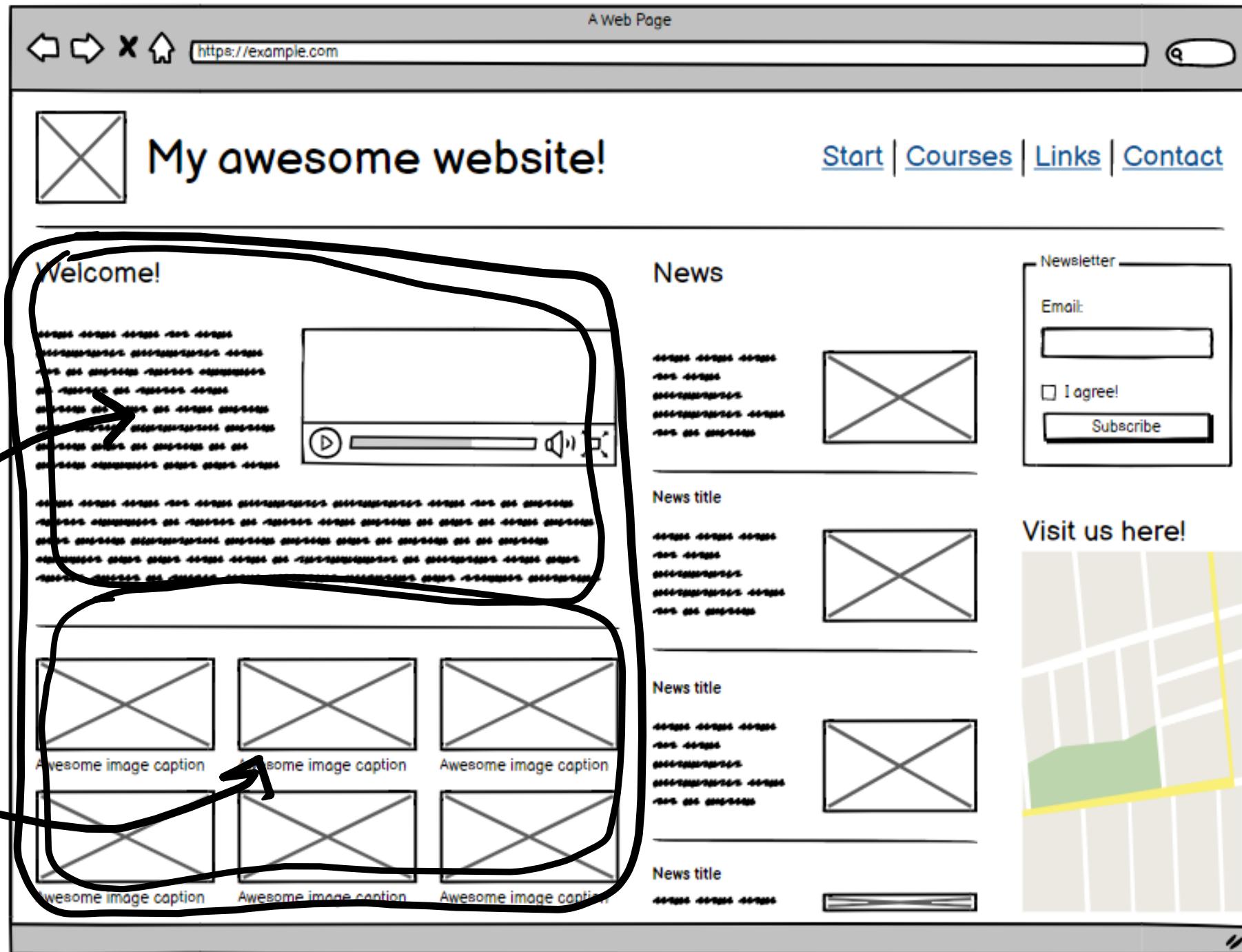
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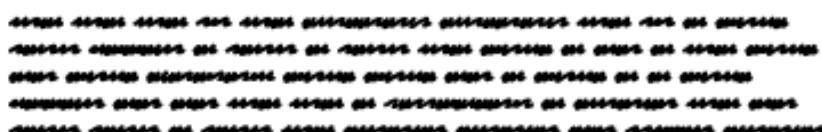
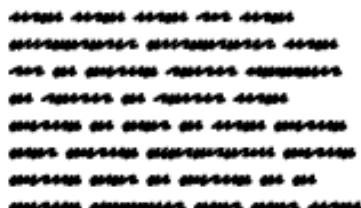






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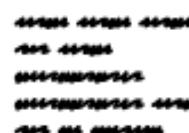


Awesome image caption

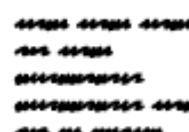


Awesome image caption

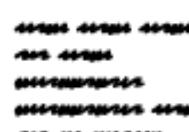
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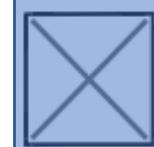
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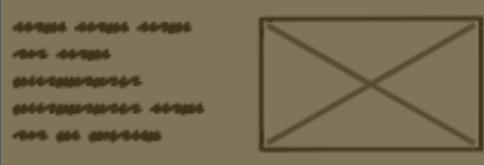
Welcome!



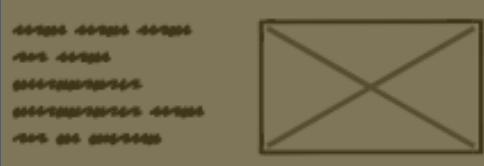
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News title



News title



News title



Awesome image caption



[Awesome image caption](#)



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<header>

<main>

<aside>

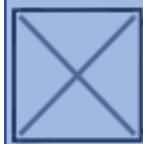
<nav>

<article>

<section>

CSS - Grid

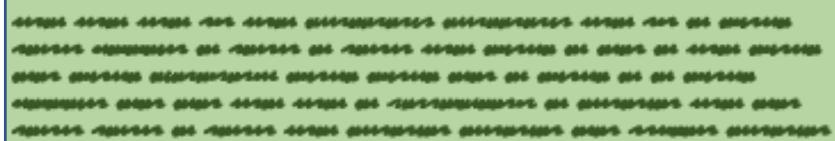
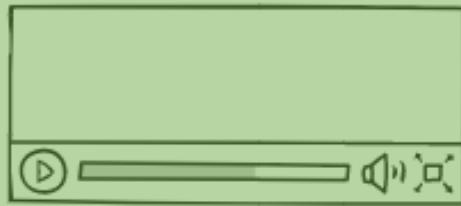
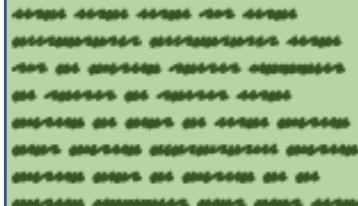
Designa webbsidor enligt ett rutnät (rader & kolumner)



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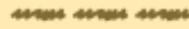
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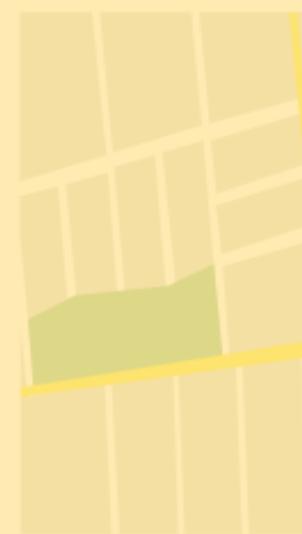
Newsletter

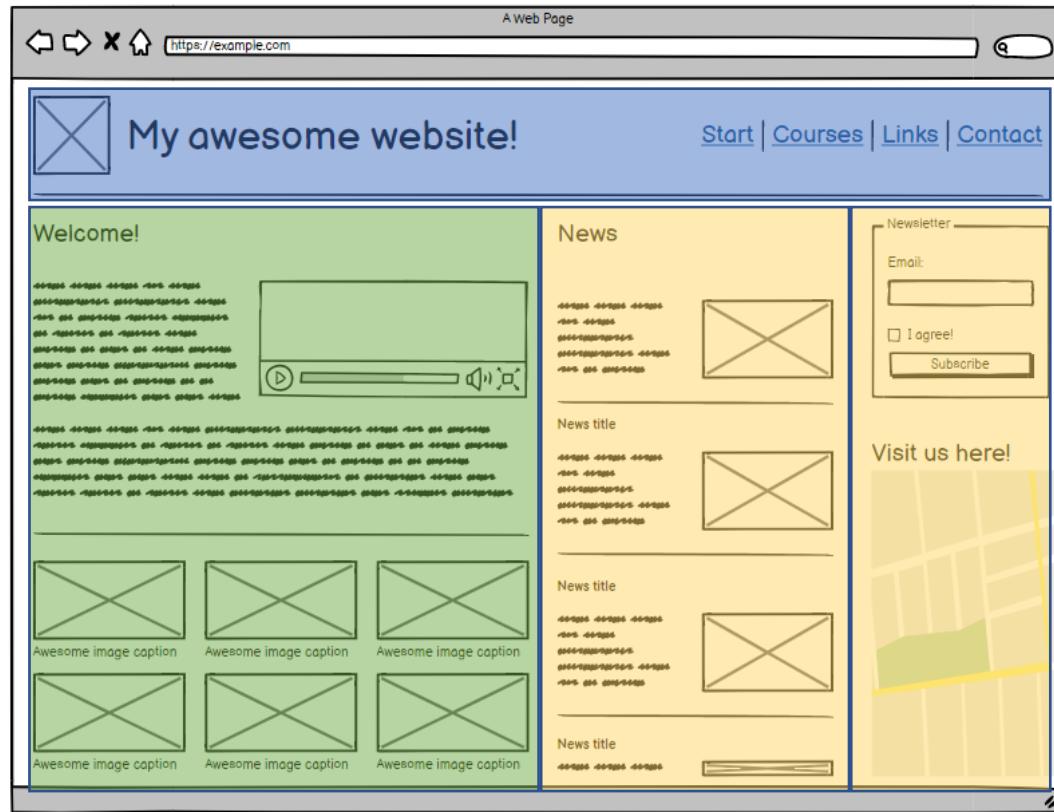
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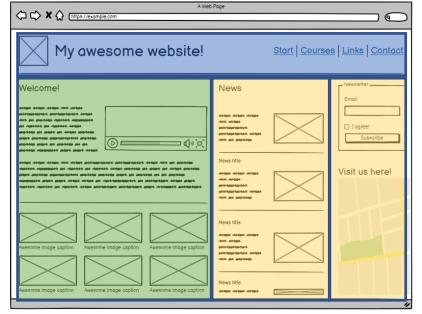
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3 kolonner

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Huvudinnehåll

Nyheter

Övrigt

2 rader

Låt oss testa CSS Grid!

The background features a large, semi-transparent graphic composed of several overlapping elements. It includes a light gray circle, a dark green circle, and a yellow circle. Overlaid on these are two large, light gray chevron shapes pointing upwards and outwards from the center. The overall effect is a modern, geometric design.

Övergripande layout

HOME / GUIDES /

A Complete Guide to Grid



Chris House on Nov 6, 2016 (Updated on Mar 10, 2021)

Our comprehensive guide to CSS grid, focusing on all the settings both for the grid parent container and the grid child elements.

Table of contents

- Part 1: [Introduction](#)
- Part 2: [Basics and browser support](#)
- Part 3: [Important terminology](#)
- Part 4: [Grid Properties](#)
- Part 5: [Special functions and keywords](#)
- Part 6: [Fluid columns snippet](#)
- Part 7: [Animation](#)

<https://css-tricks.com/snippets/css/complete-guide-grid/>

► Introduction

► Basics and browser support

Get the poster!

Reference this guide a lot? Pin a copy up on the office wall.

[Buy Poster](#)



CSS - Flexbox

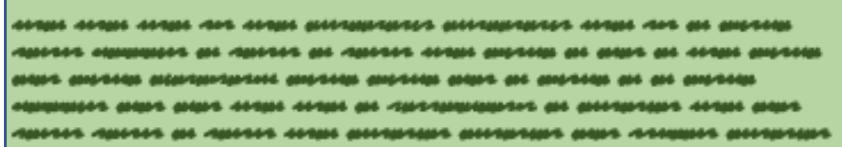
Placera en samling element enligt givna regler



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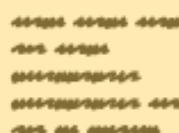
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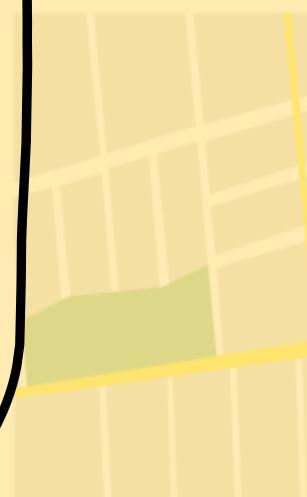
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Email:

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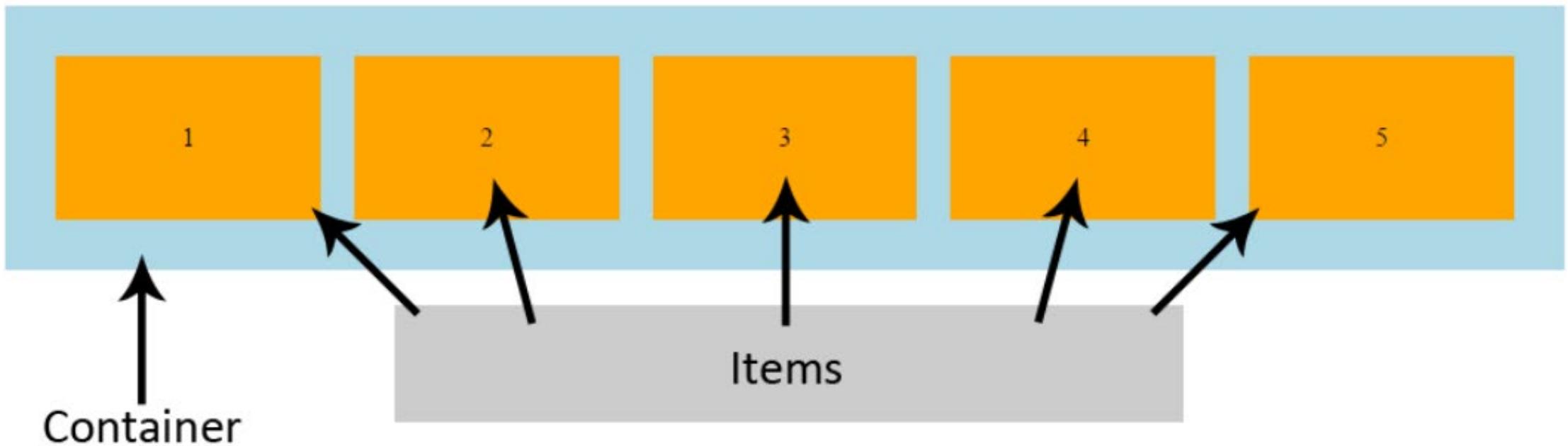
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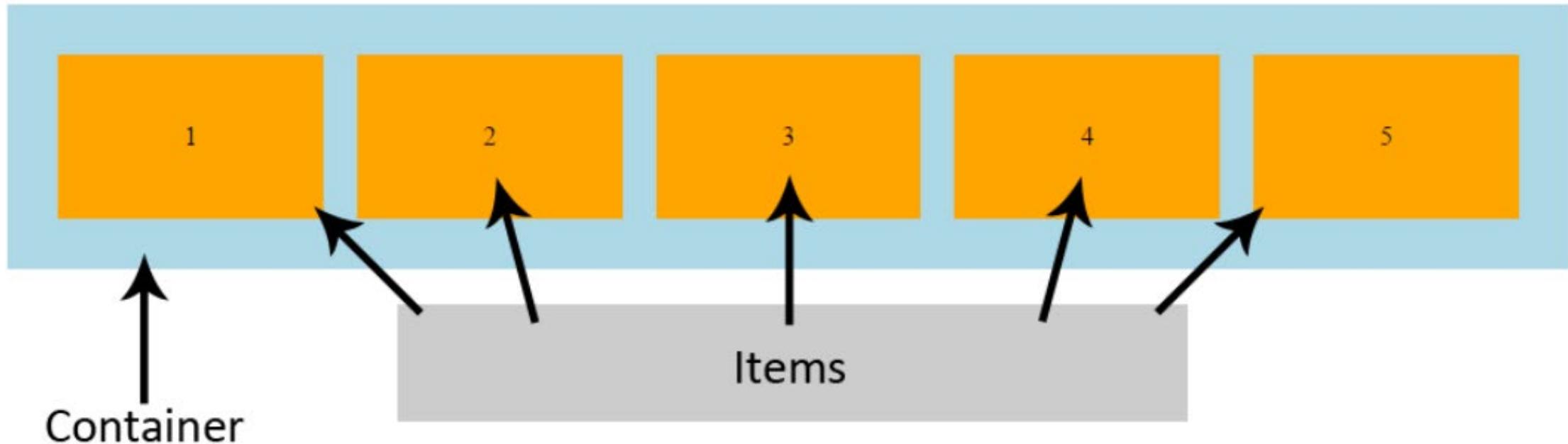
Vad är flexbox?

- Ett sätt att positionera ut element på en webbsida
 - Ett alternativ till att använda t.ex. float för att bygga layouter
- Flexbox utgår från att positionerna ut barn-element i en ”container” på olika sätt.



```
<div id="container">  
  <div class="item">1</div>  
  <div class="item">2</div>  
  <div class="item">3</div>  
  <div class="item">4</div>  
  <div class="item">5</div>  
</div>
```

```
#container{  
  background-color: lightblue;  
  padding: 20px;  
  /* Egenskaper för flexbox */  
  display: flex;  
}  
  
.item{  
  text-align: center;  
  background-color: orange;  
  margin: 10px;  
  padding: 40px;  
}
```



#container

flex-direction



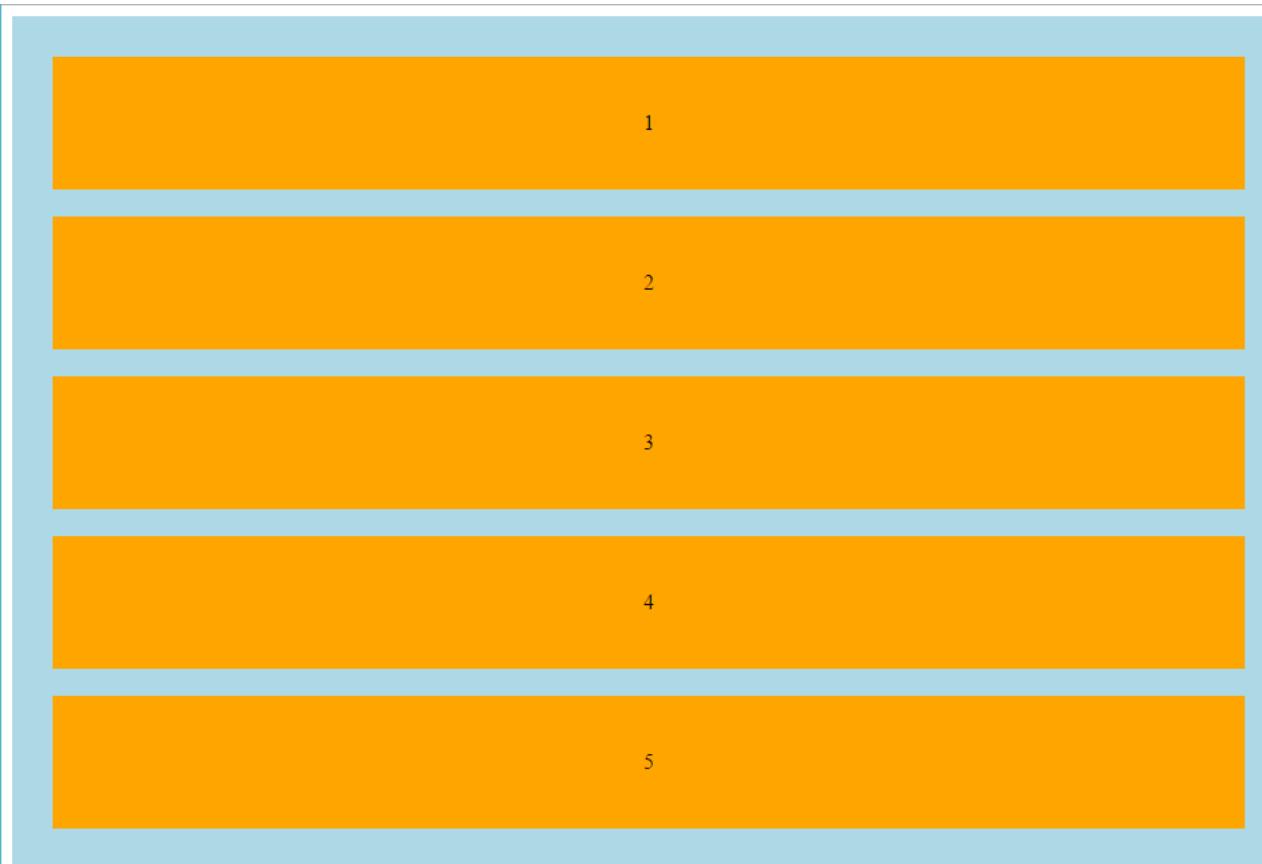
`flex-direction: row;`

`flex-direction: row-reverse;`



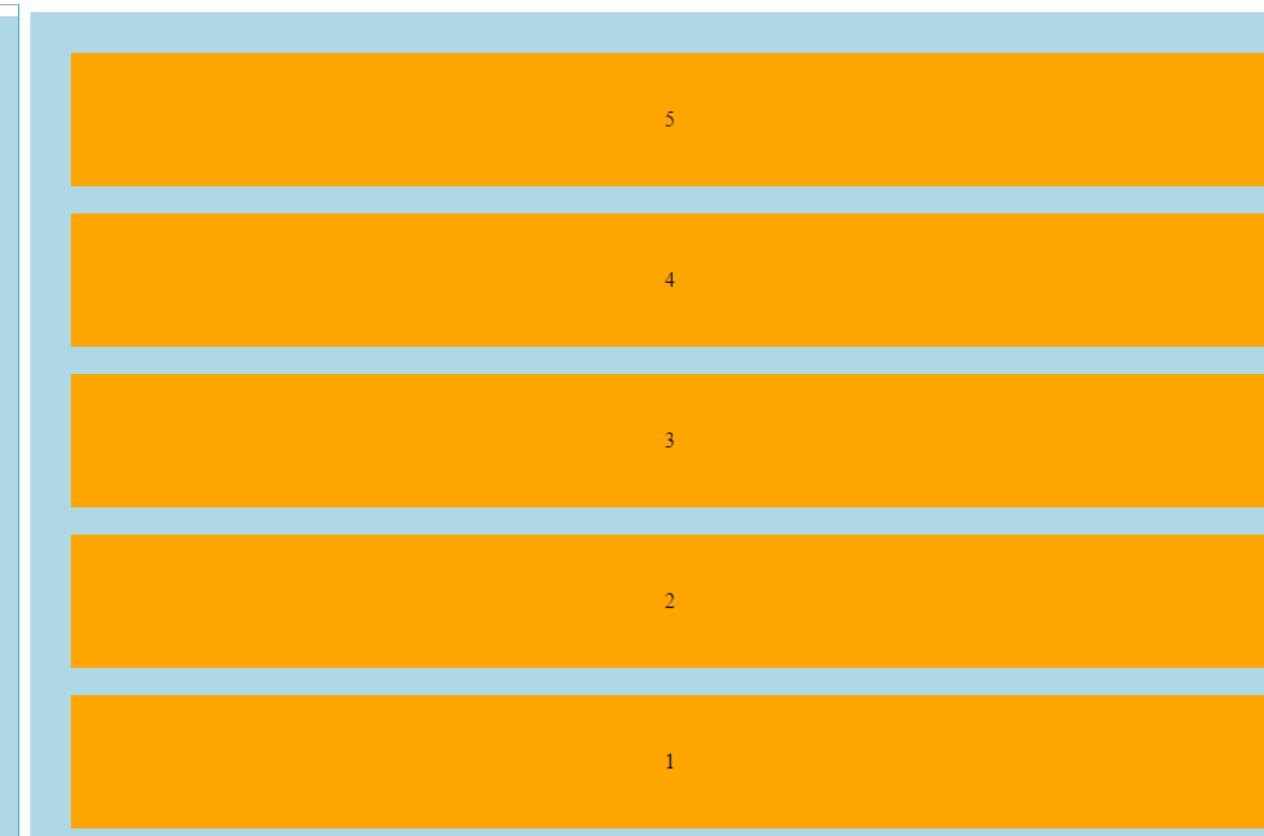
#container

`flex-direction: column;`



flex-direction

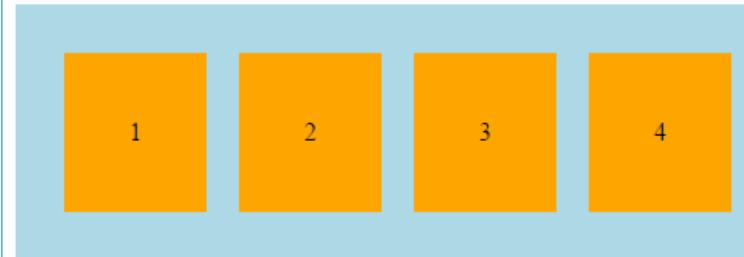
`flex-direction: column-reverse;`



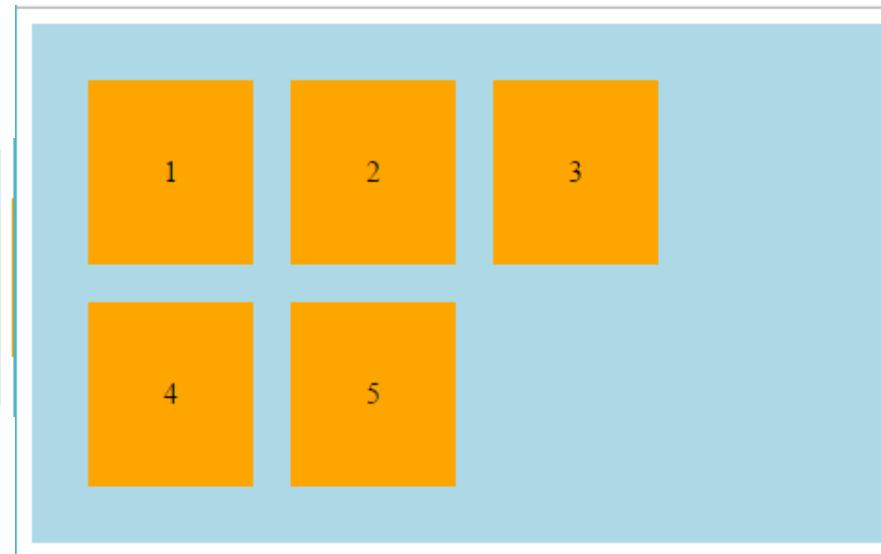
#container

flex-wrap

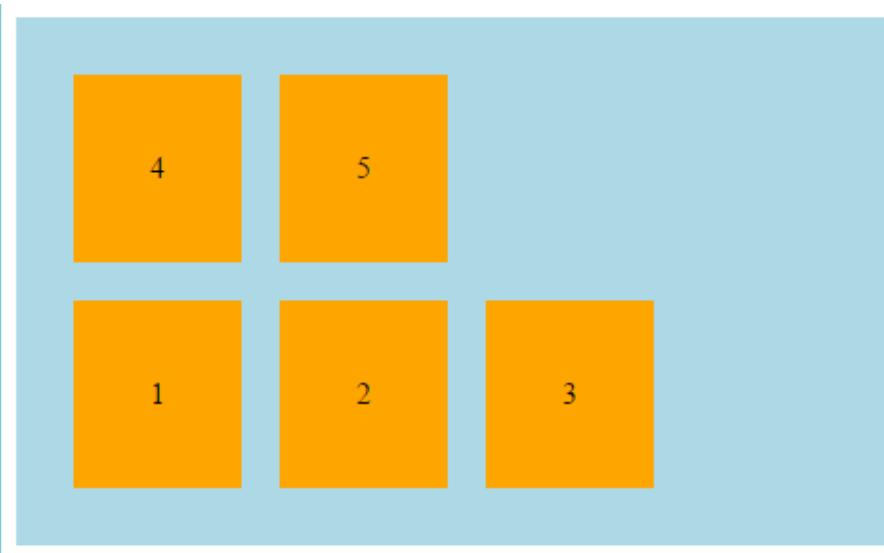
flex-wrap: nowrap;



flex-wrap: nowrap;



flex-wrap: nowrap-reverse;



#container

justify-content

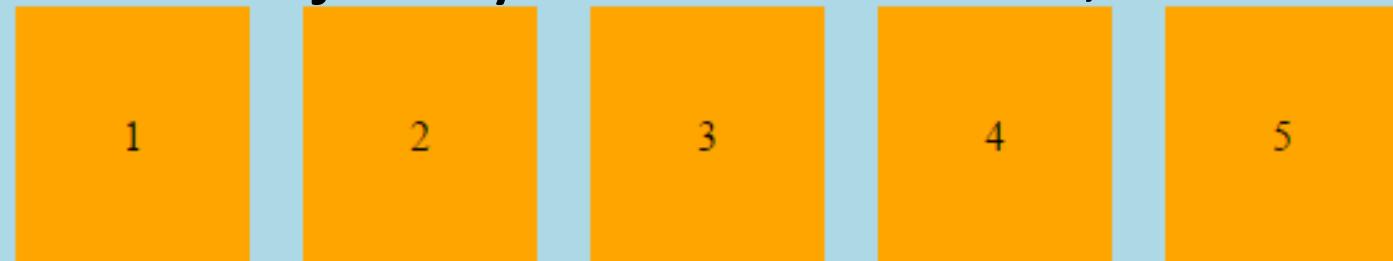


`justify-content: flex-start;`

`justify-content: flex-end;`



`justify-content: center;`



#container

justify-content

justify-content: space-between;

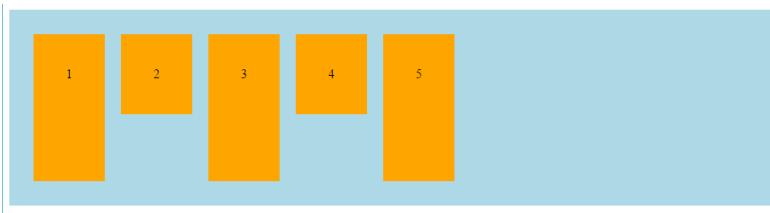


justify-content: space-around;

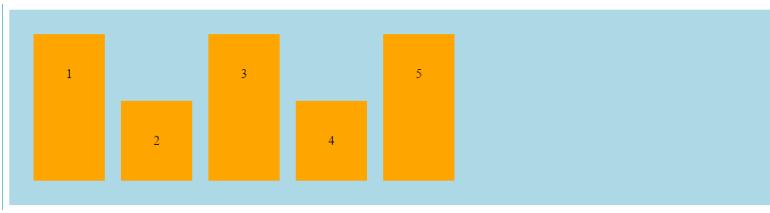


#container

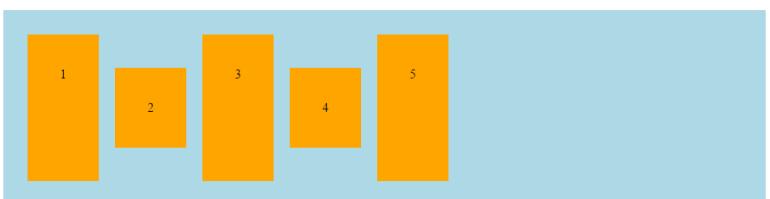
- align-items: flex-start;



- align-items: flex-end;



- align-items: flex-end;

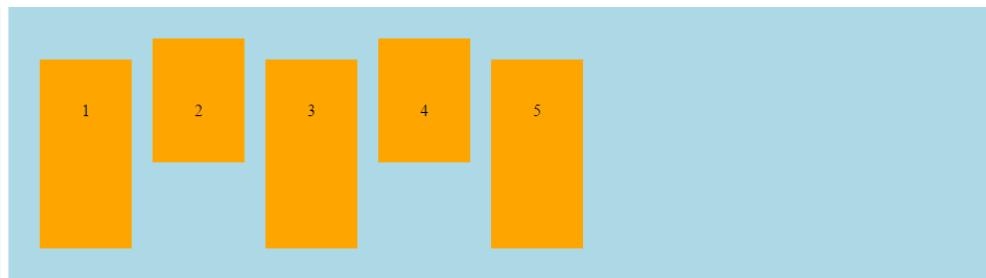


align-items

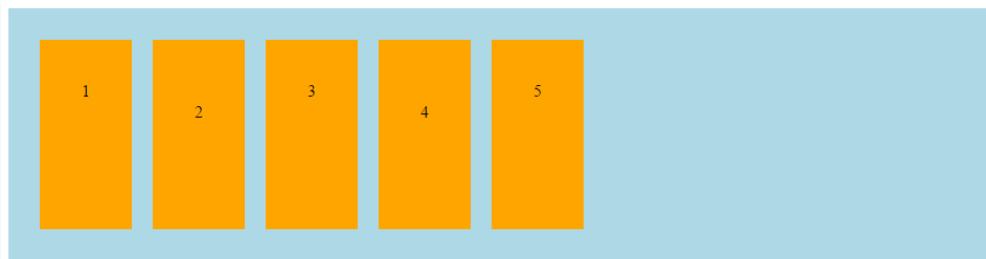
```
#container{  
    background-color: lightblue;  
    padding: 20px;  
    /* Egenskaper för flexbox */  
    display: flex;  
    align-items: flex-start;  
}  
  
.item{  
    text-align: center;  
    background-color: orange;  
    margin: 10px;  
    padding: 40px;  
}  
  
.item:nth-child(odd){  
    height: 100px;  
}
```

#container

- align-items: baseline;



- align-items: stretch;



align-items

```
#container{  
    background-color: lightblue;  
    padding: 20px;  
    /* Egenskaper för flexbox */  
    display: flex;  
    align-items: baseline ;  
}  
  
.item{  
    text-align: center;  
    background-color: orange;  
    margin: 10px;  
    padding: 40px;  
}  
  
.item:nth-child(odd){  
    height: 100px;  
}  
  
.item:nth-child(even){  
    padding-top: 60px;  
}
```

Exempel på användning av flexbox

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A Complete Guide to Flexbox



Chris Coyier on Apr 8, 2013 (Updated on Mar 10, 2021)

Our comprehensive guide to CSS flexbox layout. This complete guide explains everything about flexbox, focusing on all the different possible properties for the parent element (the flex container) and the child elements (the flex items). It also includes history, demos, patterns, and a browser support chart.

Table of contents

Part 1: [Browser DevTools](#)

Part 2: [Online tools](#)

Part 3: [CLI tools](#)

Get the poster!

Reference this guide a lot?

Pin a copy up on the office wall.

[Buy Poster](#)



<https://css-tricks.com/snippets/css/a-guide-to-flexbox/>

► Background

Låt oss testa
CSS Flexbox!



CSS Flexbox



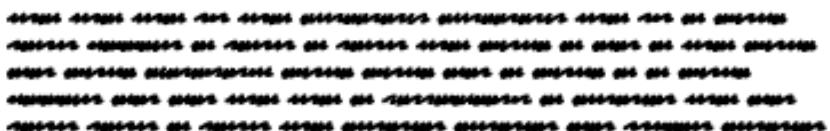
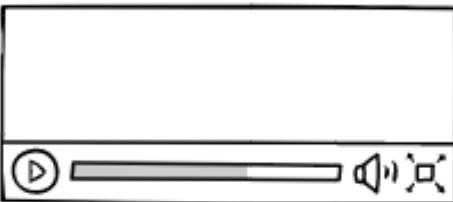
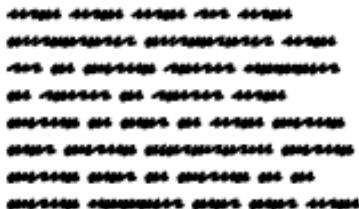
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THE CSS
TO MY
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Welcome!



Awesome image caption



Awesome image caption



Awesome image caption



Awesome image caption

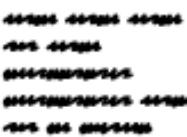


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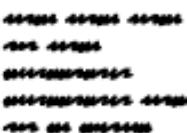


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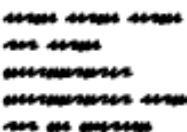
News



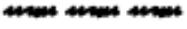
News title



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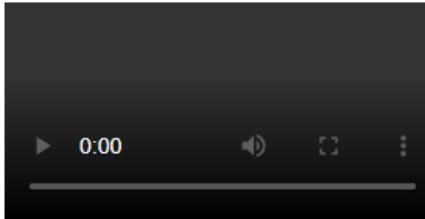
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Welcome!

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin sagittis eros a porta pretium. Phasellus at ex leo. Curabitur ut tellus accumsan, elementum magna eu, condimentum ligula. Sed metus dui, vehicula id mattis sed, pharetra in massa. Donec lacinia nunc ligula, eu aliquam lacus venenatis in. Nunc sollicitudin iaculis velit consequat malesuada. In hac habitasse platea dictumst. Integer eleifend ac erat maximus imperdiet.

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Awesome picture!



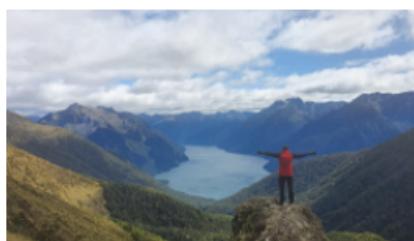
Awesome picture!



Awesome picture!



Awesome picture!



Awesome picture!

News

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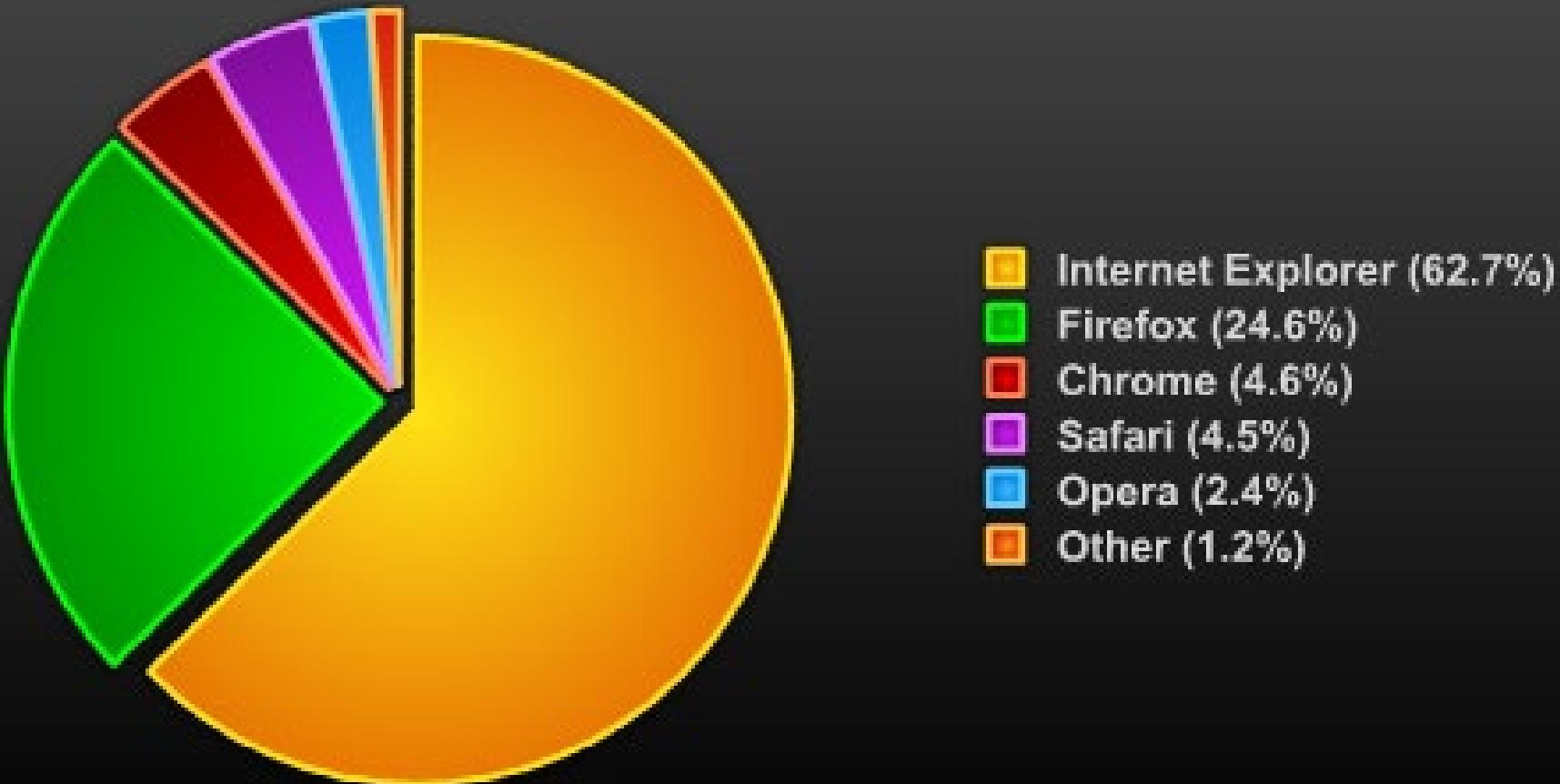


Responsiv webbutveckling





Web browser market share, December 2009



Data source: Net Applications

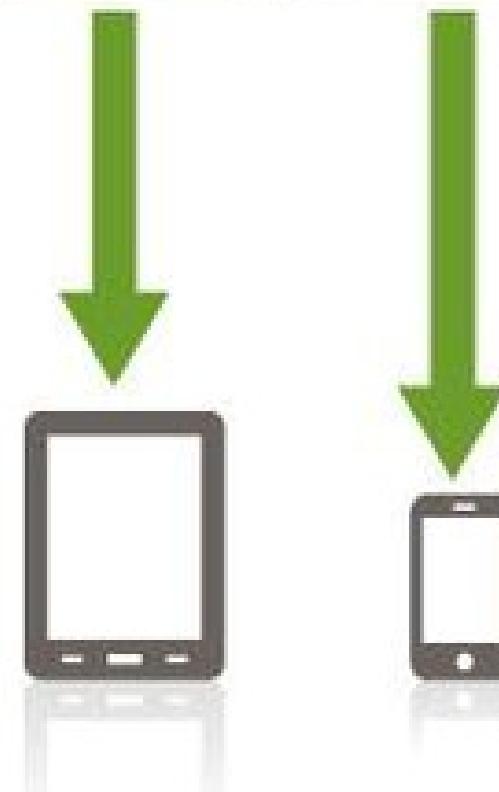
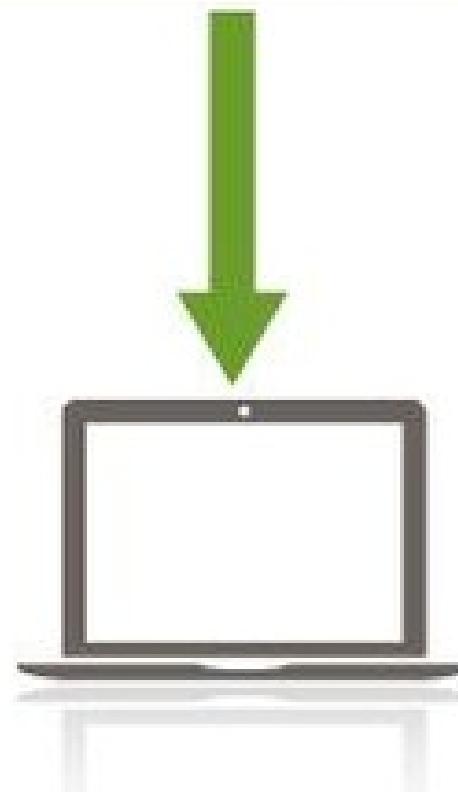
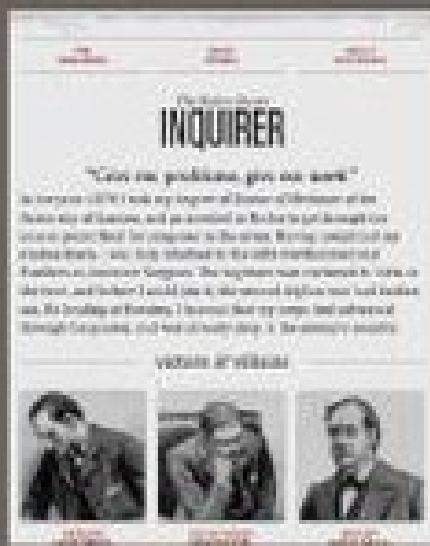
www.pingdom.com

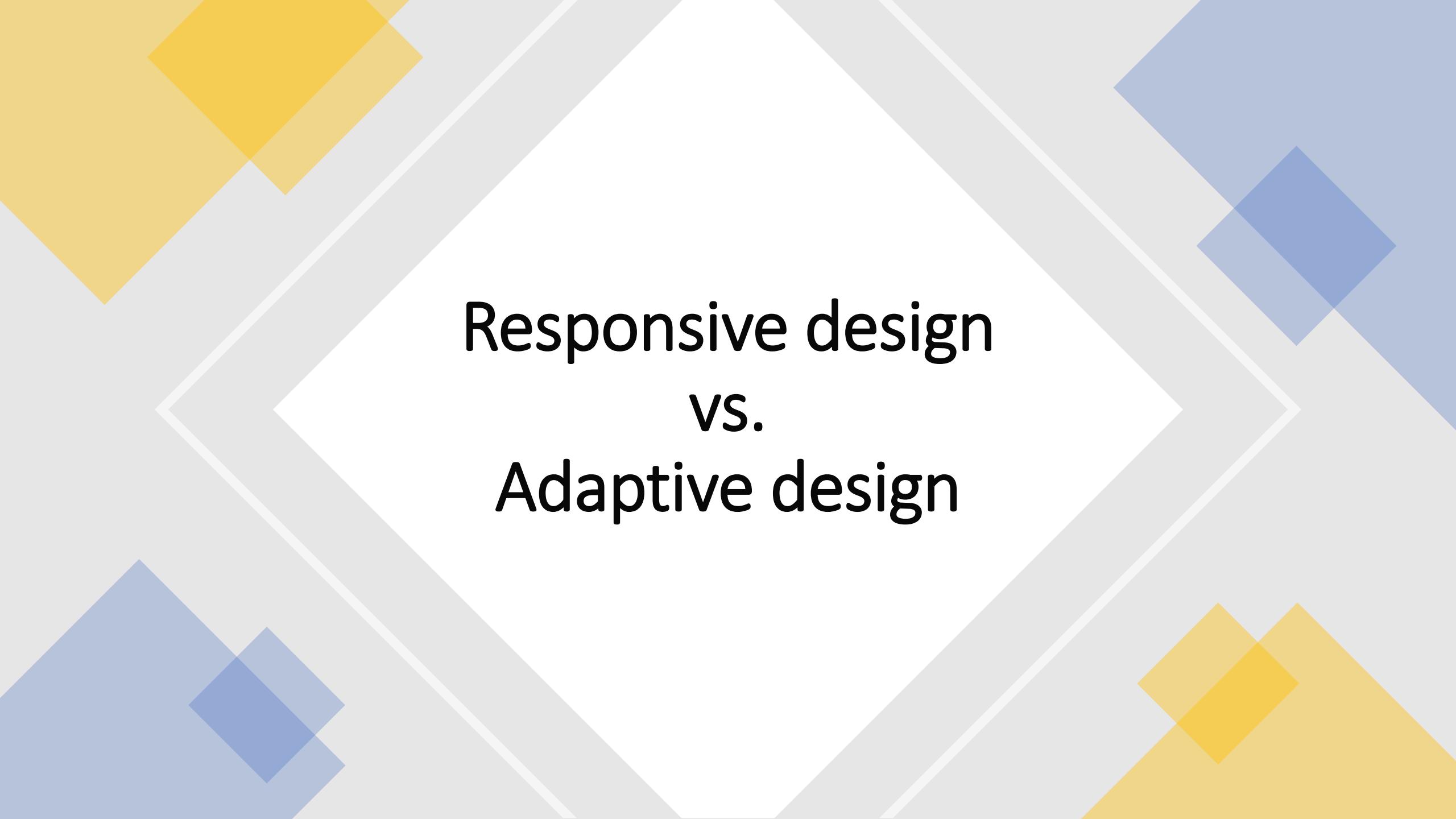


IMAGINE A WORLD



WHERE ALL SITES ARE RESPONSIVE





Responsive design
vs.
Adaptive design

Responsive v.s adaptive design



Varför är det så viktigt att fokusera på responsiv design?





Allt fler surfar med mobiler/surfplattor

Ger oss möjlighet anpassa innehållet efter det
medium som användaren använder





Många webbsidor hittas genom social media, vilket används mest på mobiler

Responsiva webbplatser prioriteras av Google vid sökningar

Multi-screen guidelines

Make sure your site's ready for mobile-friendly Google search results



NEXT: OPTIMIZATIONS FOR THE MOBILE WEB

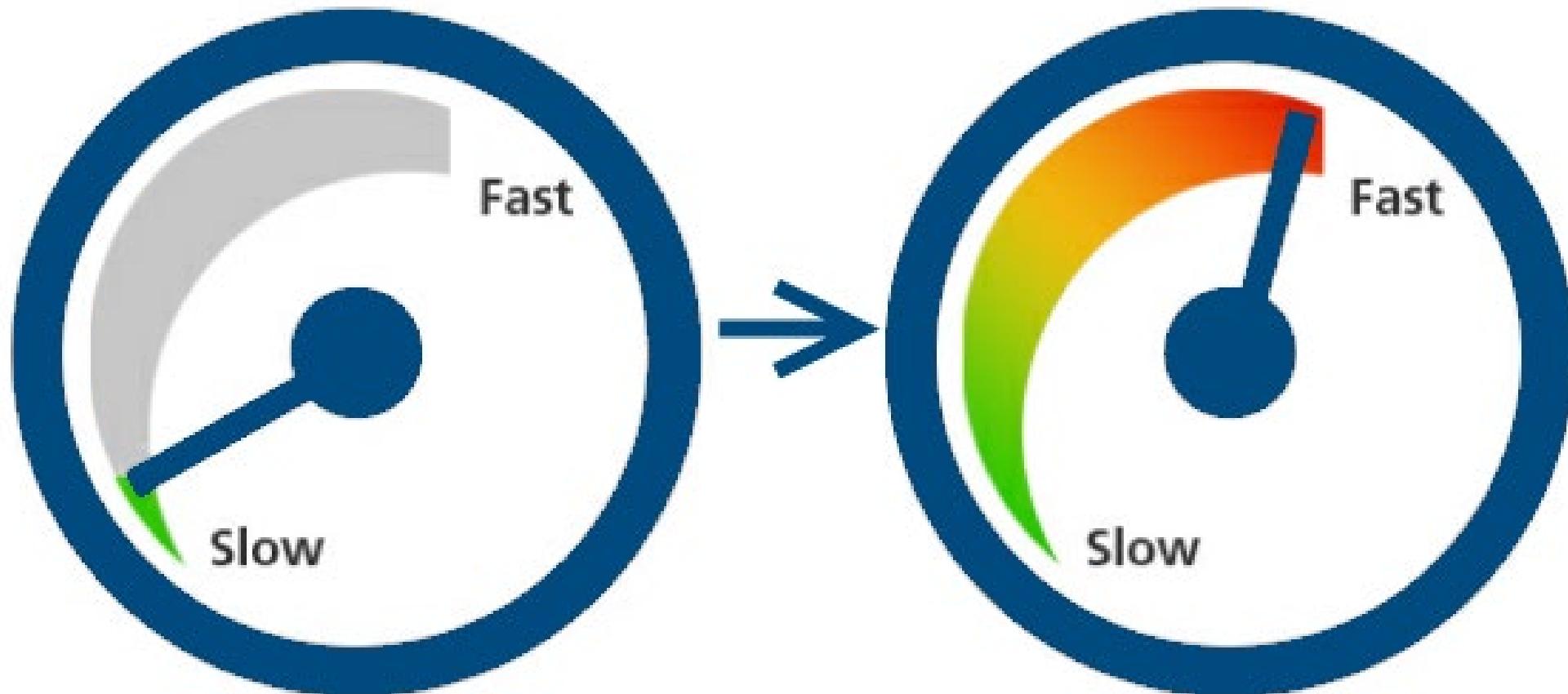


Starting April 21, 2015, Google Search will be expanding its use of mobile-friendliness as a ranking signal. This change will affect mobile searches in all languages worldwide and will have a significant impact in Google Search results. Users will find it easier to get relevant, high quality search results optimized for their devices. To help you make sure your website is ready for this search change, we've put together the following frequently asked questions:

Will this change affect my desktop traffic?

No. This change will affect mobile searches in all languages worldwide.

Responsiva webbsidor snabbar upp laddningstiderna



Sequential screening is common & mostly completed within a day

90%

Use multiple screens sequentially to accomplish a task over time



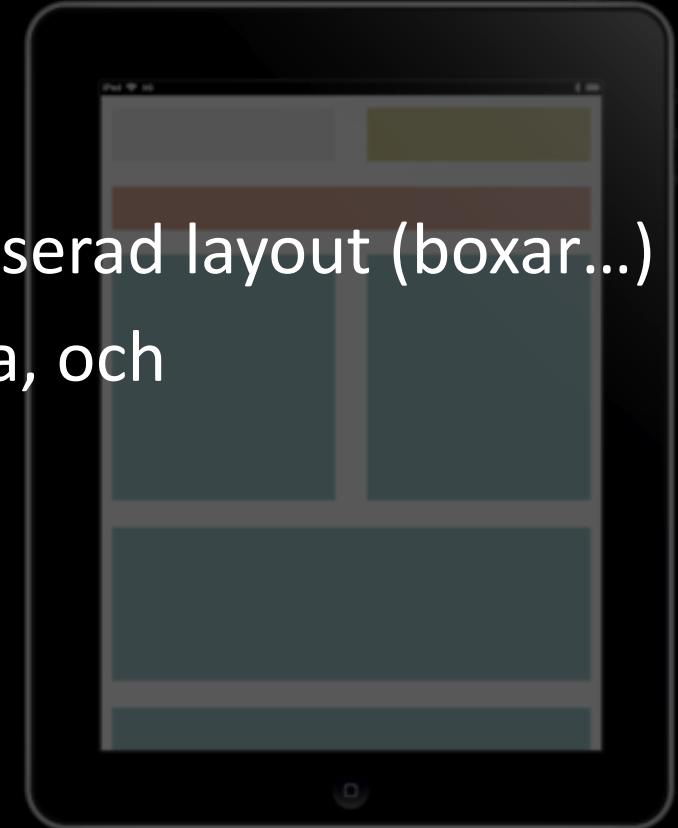
98% move between devices that same day



Med andra ord – tänk responsivt!

Vad krävs för att bli responsiv?

1. En flexibel, "grid"-baserad layout (boxar...)
2. Flexibla bilder, media, och
3. Media queries



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The Boston Globe

Bank of America hopes massive cuts will save billions

In尋找 places to cut personnel, which could save by billions a year, **Bank of America** has proposed and “we’re a much smaller company than we were yesterday.”

► **Economists** say growth forecasts

Obama urges Congress to act on jobs bill

Speaking from the White House, President Obama urged Congress to pass legislation and thereby challenged “the press, the public, on deficit.”

► **Opinion:** A \$450 billion job bill

Mixed reviews for patent law overhaul

Frequencies of a law referring to 10 patent issues and 10 could spawn a wave of accusations. Democrats claim it doesn’t go far enough.

► **Photo:** 9/11 commemoration

► **Politics, news, politics, and more**



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With \$600 billion, Hollywood retrenches its slate

The sprawling movie studio looks to cut the second half of the year, when studios are making big movies and releases often with major stars.

► **Video:** Take a full movie preview

► **Full earnings range from Chapter 16 to Chapter 20**

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The image displays three side-by-side screenshots of the Microsoft homepage, illustrating the evolution of the website's layout and content.

Left Screenshot: This version features a prominent "Discover" section on the left side, listing products like Windows, Office, and Microsoft Store. The main content area includes a "Surface" hero section and a "For home" section with links to Windows, Office, and Microsoft Store. A large "Downloads" section is also present.

Middle Screenshot: This version has a more integrated look. The "Discover" section is now part of the main navigation bar at the top. The "For home" section is more prominent, featuring a larger image of a Surface tablet. The "Downloads" section is still present but appears slightly smaller.

Right Screenshot: This version shows a significant shift towards a clean, minimalist design. The "Discover" section is no longer visible. The "For home" section is the primary focus, with a large image of a Surface tablet. The "Downloads" section is present but less prominent.

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

Kursintroduktion

Varmt välkomna till kurserna:

- DA355A - [Flerplattformsapplikationer med webbtekniker](#)
- DA344A - [Webbapplikationer för mobila enheter](#)

Som till stor del samläses under våren 2021 och kommer köras som en gemensam kurs (med några specifika moment för respektive kurs). All information kring kurserna hittar ni på denna webbplats tillsammans med Canvas.

Målet med denna kurs är att med hjälp av webbtekniker utveckla (webb)applikationer till mobila enheter. Detta genom teknikerna HTML, CSS och JavaScript med fokus på responsiv design. Kursen behandlar bland annat följande områden:

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

Kursens upplägg består veckovis av en eller två föreläsning(ar) följt av en laboration med tillhörande inlämningsuppgift och under de sista veckorna ersätts detta med projektarbete och handledning.

Kursmaterial i form av föreläsningar och uppgifter kommer att publiceras på denna webbplats allt eftersom vi har haft de olika momenten, men förhoppningsvis tidigare. **Resultat** och **meddelanden** finner ni dock fortfarande på Canvas.

Glöm inte att noga läsa igenom [kursöversikten noga](#) för detaljer om hur kursen är upplagd och hur examination sker.

Kursplaner

- DA355A - [Flerplattformsapplikationer med webbtekniker](#)
- DA344A - [Webbapplikationer för mobila enheter](#)

Schema

- DA355A - [Flerplattformsapplikationer med webbtekniker](#)
- DA344A - [Webbapplikationer för mobila enheter](#)

Kurslitteratur



Kursintroduktion

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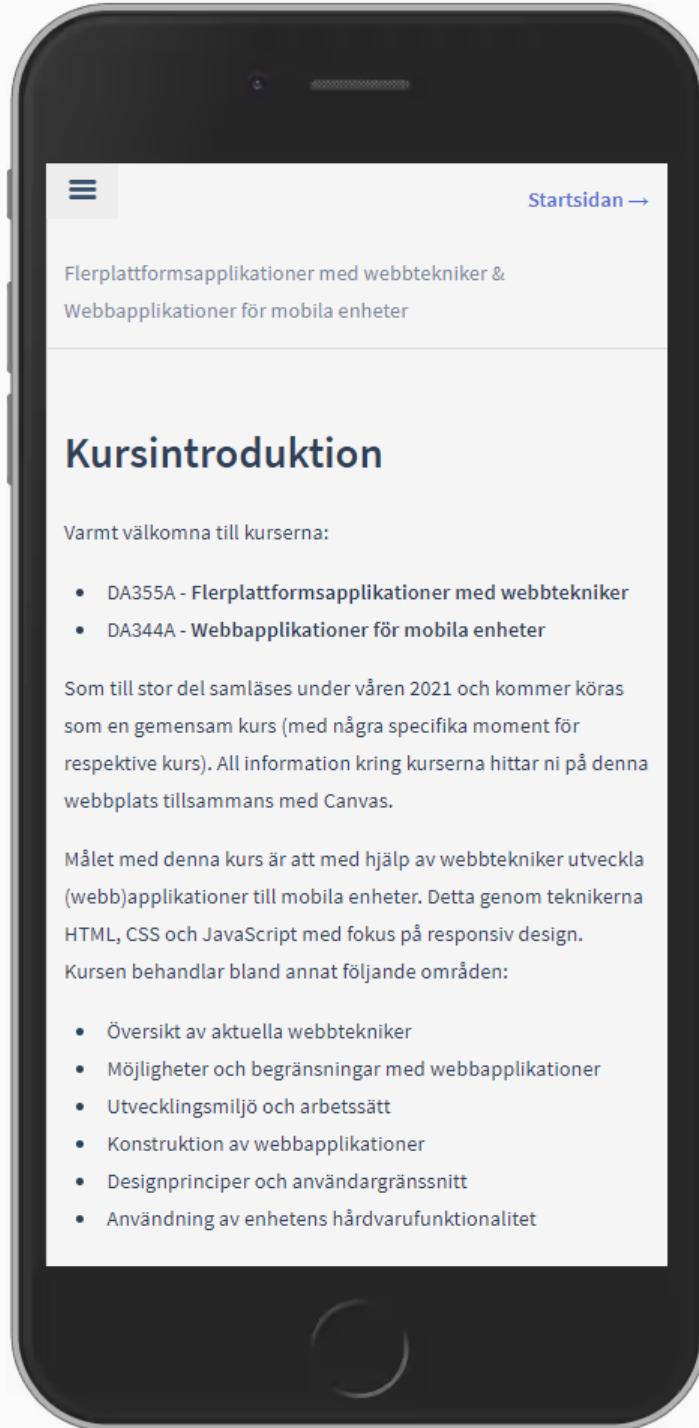
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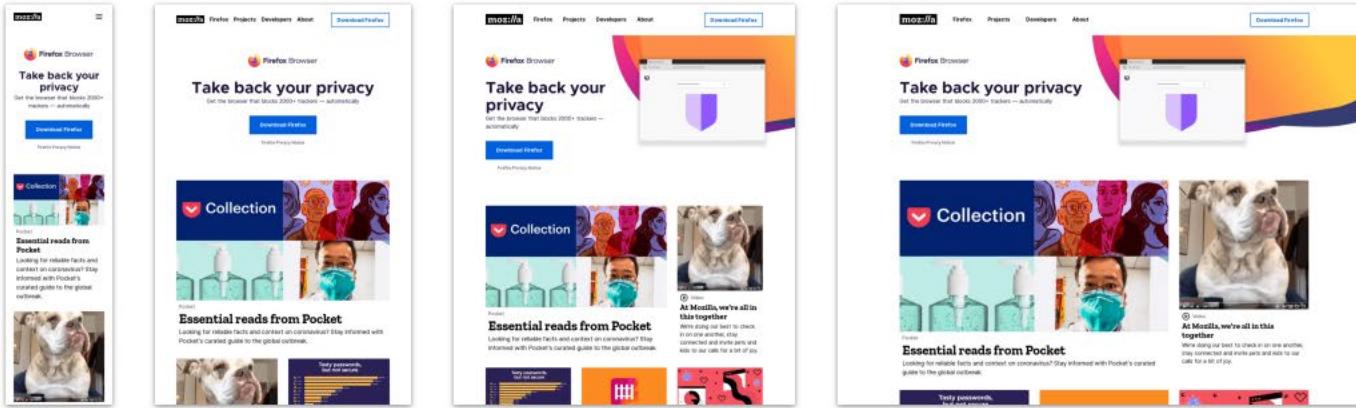
Media Queries



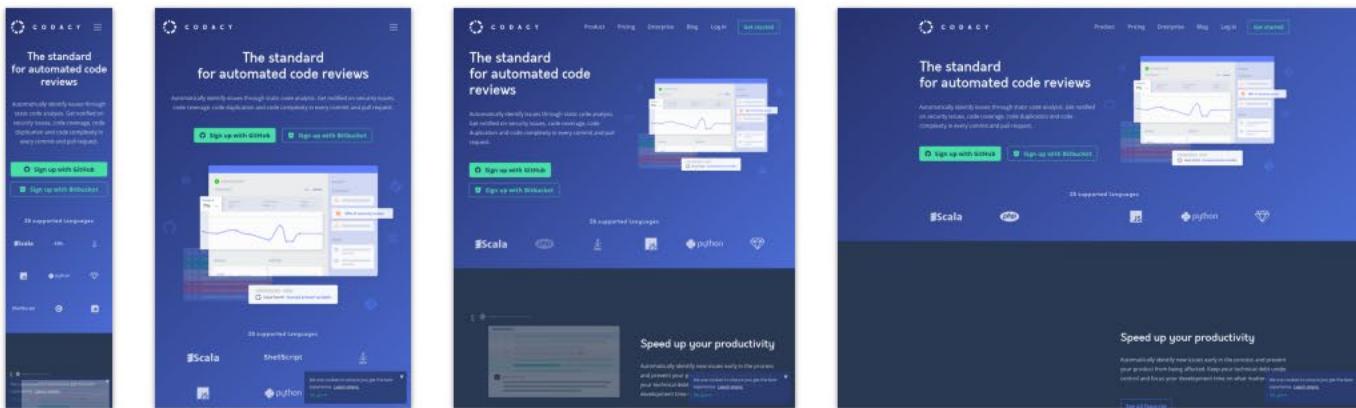
Your new development career awaits. Check out the latest listings.

ads via Carbon

Mozilla



Codacy



Code Climate





Media Queries

W3C Recommendation 19 June 2012

This Version:

<http://www.w3.org/TR/2012/REC-css3-mediaqueries-20120619/>

Latest Version:

<http://www.w3.org/TR/css3-mediaqueries/>

Latest Editor's Draft:

<http://dev.w3.org/cswwg/css3-mediaqueries/>

Previous Version:

<http://www.w3.org/TR/2012/PR-css3-mediaqueries-20120426/>

Disposition of Comments:

<http://www.w3.org/Style/2012/MediaQueriesDisposalOfComments.html>

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Daniel Glazman <daniel.glazman @disruptive-innovations.com>

Anne van Kesteren <annevk@opera.com>

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See also [translations](#).

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Abstract

HTML4 and CSS2 currently support media-dependent style sheets tailored for different *media types*. For example, a document may use sans-serif fonts when displayed on a screen and serif fonts when printed. ‘screen’ and ‘print’ are two media types that have been defined. *Media queries* extend the functionality of media types by allowing more precise labeling of style sheets.

A media query consists of a media type and zero or more expressions that check for the conditions of particular *media features*. Among the media features that can be used in media queries are ‘width’, ‘height’, and ‘color’. By using media queries, presentations can be tailored to a specific range of output devices without changing the content itself.



<http://alistapart.com/article/dao>

The web's greatest strength, I believe, is often seen as a limitation, as a defect. It is the nature of the web to be flexible, and it should be our role as designers and developers to embrace this flexibility, and produce pages which, by being flexible, are accessible to all.

—John Allsopp, 2000



Att formge olika medier

Print & Screen

Olika typer av stilmallar

```
<link rel="stylesheet" type="text/css" media="screen" href="style.css">
```

```
<link rel="stylesheet" type="text/css" media="print" href="print.css">
```



PRINT



Att styra för olika mål

```
@media screen{  
    /* Gör texten blå till webbsidan för skärmar */  
    body{  
        color: blue;  
    }  
}  
}
```



```
@media print{  
    /* Gör texten svart till utskriftsversionen av webbsidan */  
    body{  
        color: black;  
    }  
}
```



PRINT

Att styra för olika upplösningar

```
@media screen and (min-width: 900px) {  
    body{  
        background-color: blue;  
    }  
}  
  
@media screen and (max-width: 500px) {  
    body{  
        background-color: red;  
    }  
}  
  
@media screen and (min-width: 500px) and (max-width: 900px) {  
    body{  
        background-color: green;  
    }  
}
```

Att styra för olika upplösningar

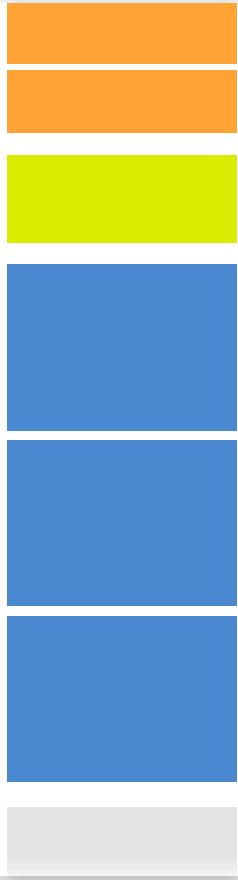
```
@media screen and (max-width:360px) {  
    /* Styling */  
}  
  
@media (min-width:480px) {  
    /* Styling */  
}  
  
@media screen and (min-device-width: 480px)  
and (orientation: landscape){  
    /* Styling */  
}
```



Demo Print & Screen



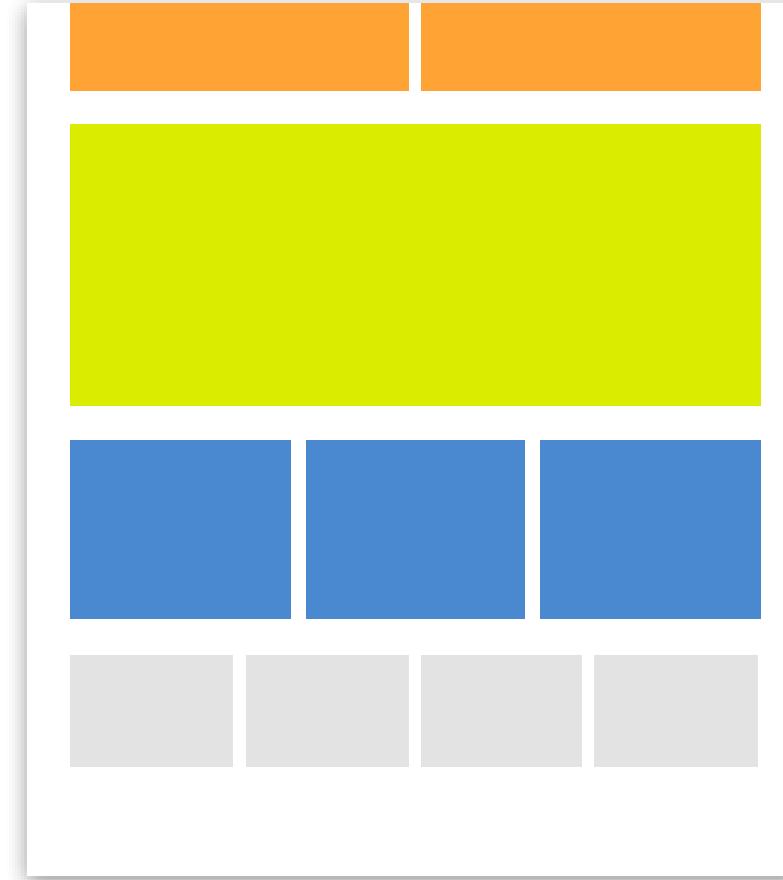
320px



768px



1024px



Flexibel layout & media

%

Absolute Lengths

The absolute length units are fixed and a length expressed in any of these will appear as exactly that size.

Absolute length units are not recommended for use on screen, because screen sizes vary so much. However, they can be used if the output medium is known, such as for print layout.

Unit	Description	
cm	centimeters	Try it
mm	millimeters	Try it
in	inches (1in = 96px = 2.54cm)	Try it
px *	pixels (1px = 1/96th of 1in)	Try it
pt	points (1pt = 1/72 of 1in)	Try it
pc	picas (1pc = 12 pt)	Try it

Relative Lengths

Relative length units specify a length relative to another length property. Relative length units scale better between different rendering mediums.

Unit	Description	
em	Relative to the font-size of the element (2em means 2 times the size of the current font)	Try it
ex	Relative to the x-height of the current font (rarely used)	Try it
ch	Relative to width of the "0" (zero)	
rem	Relative to font-size of the root element	
vw	Relative to 1% of the width of the viewport*	Try it
vh	Relative to 1% of the height of the viewport*	Try it
vmin	Relative to 1% of viewport's* smaller dimension	Try it
vmax	Relative to 1% of viewport's* larger dimension	Try it
%		



Auto

Att jobba med dynamisk bredd

% istället för pixlar

Brytpunkter? Hur var närl?

The image displays three side-by-side screenshots of the Microsoft homepage, illustrating the evolution of the website's layout and content over time.

Left Screenshot (Old Version):

- Header:** Microsoft logo, search bar, and navigation menu (Products, Downloads, Security, Support, Buy).
- Hero Section:** A large "Surface" advertisement with the tagline "Click in and do more".
- Discover Section:** A grid of links for Windows, Office, Windows Phone, IIS, Skype, and Microsoft Store.
- For home Section:** Sub-sections for Windows, Office, Windows Phone, IIS, Skype, and Microsoft Store, each with a small image and a brief description.
- Downloads Section:** Links for Windows updates, Office updates, and Microsoft Store.
- Security & updates Section:** Links for Microsoft Update, Microsoft Security Essentials, and Windows Firewall Center.
- Support Section:** Links for Microsoft Support, Microsoft Support Essentials, and Microsoft Support Center.
- Bottom News Article:** "Microsoft Announces New Surface Details" (Oct. 16, 2012 - Read all 26 comments). This article is also present in the middle screenshot.

Middle Screenshot (Intermediate Version):

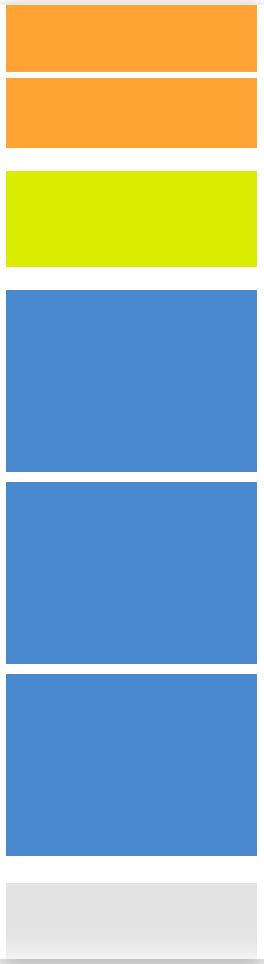
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- Downloads Section:** Links for Windows download, Office download, and Microsoft Store.
- Security & updates Section:** Links for Microsoft Update, Microsoft Security Essentials, and Windows Firewall Center.
- Support Section:** Links for Microsoft Support, Microsoft Support Essentials, and Microsoft Support Center.
- Bottom News Article:** "Microsoft Announces New Surface Details" (Oct. 16, 2012 - Read all 26 comments). This article is also present in the right screenshot.

Right Screenshot (Newest Version):

- Header:** Microsoft logo, search bar, and navigation menu (Products, Downloads, Security, Support, Buy).
- Hero Section:** A large "Surface" advertisement with the tagline "Click in and do more".
- Discover Section:** A grid of links for Windows, Office, Windows Phone, IIS, Skype, and Microsoft Store.
- For home Section:** Sub-sections for Windows, Office, Windows Phone, IIS, Skype, and Microsoft Store, each with a small image and a brief description.
- Downloads Section:** Links for Windows download, Office download, and Microsoft Store.
- Security & updates Section:** Links for Microsoft Update, Microsoft Security Essentials, and Windows Firewall Center.
- Support Section:** Links for Microsoft Support, Microsoft Support Essentials, and Microsoft Support Center.



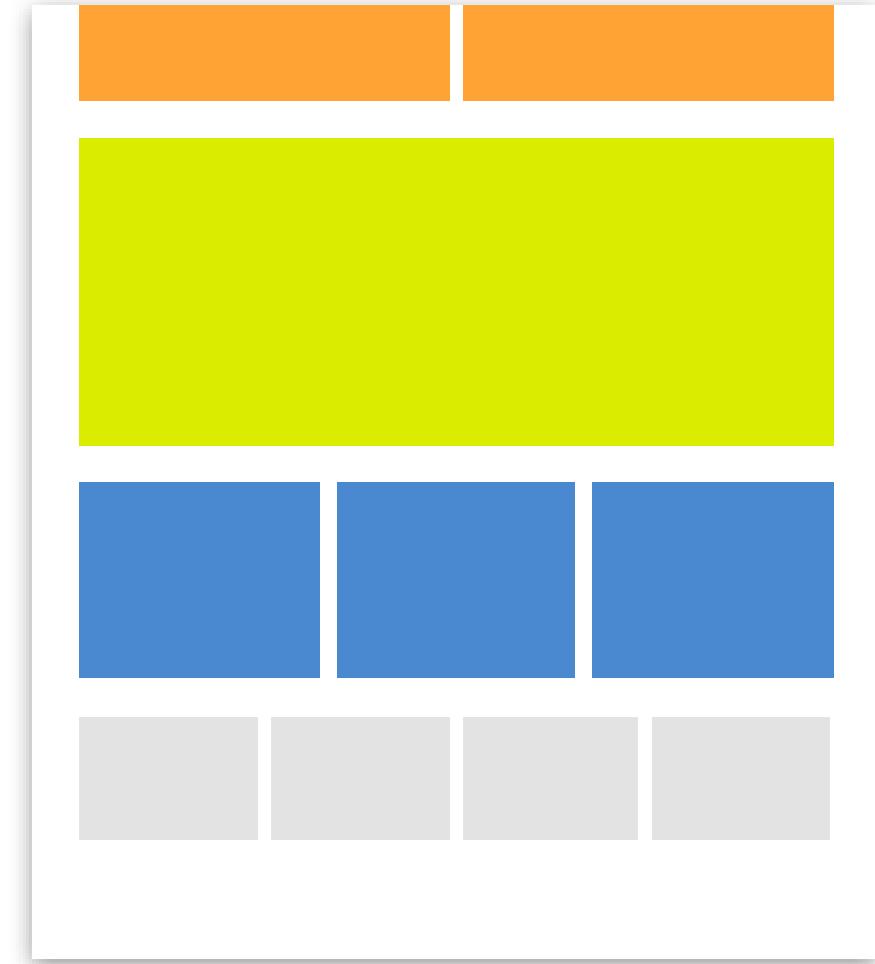
320px

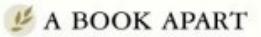


768px



1024px





Brief books for people who make websites

NO.

6

Luke Wroblewski

MOBILE FIRST

FOREWORD BY Jeffrey Zeldman



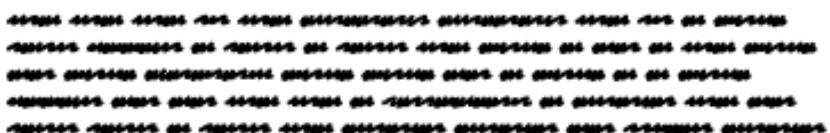
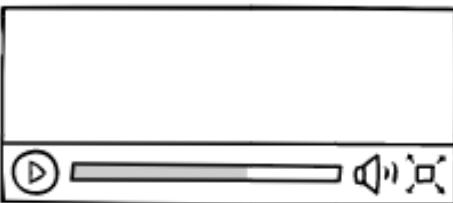
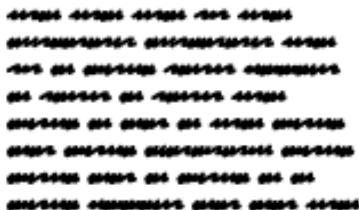
*"Start with the small screen first, then expand until it looks like *crap*. Time to insert a breakpoint!"*



My awesome website!

[Start](#) | [Courses](#) | [Links](#) | [Contact](#)

Welcome!



Awesome image caption



Awesome image caption



Awesome image caption



Awesome image caption

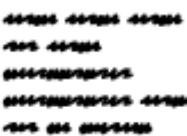


Awesome image caption

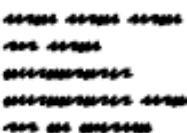


Awesome image caption

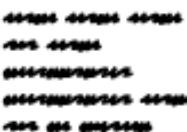
News



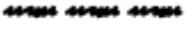
News title



News title



News title



Newsletter

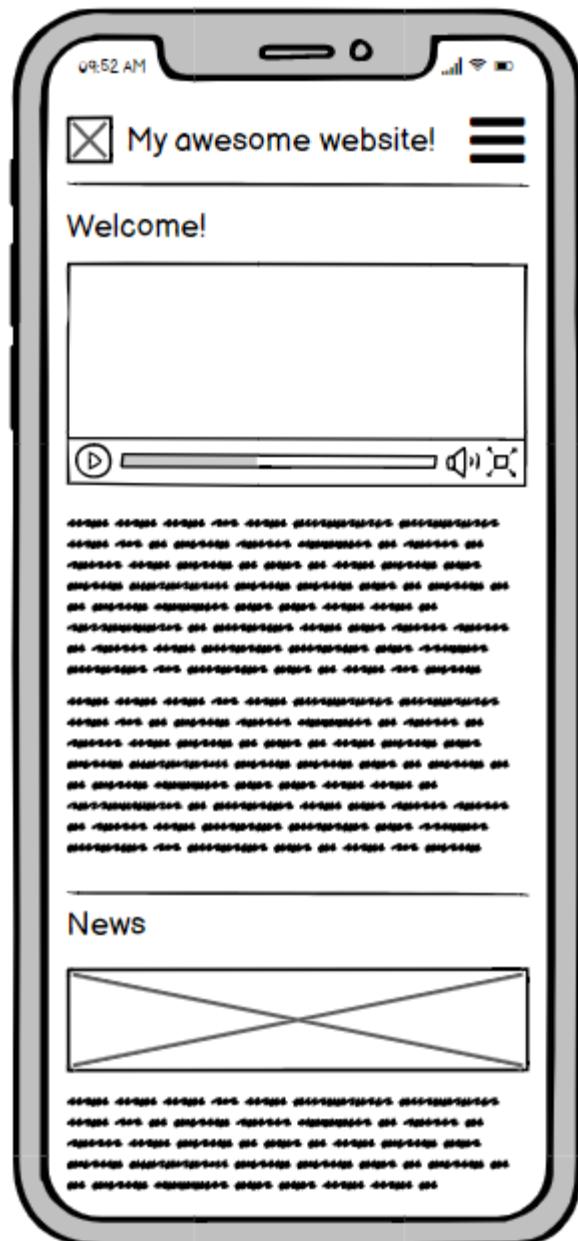
Email:

I agree!

Subscribe

Visit us here!





A Web Page
https://example.com

My awesome website!

Welcome!

News

News title

News title

News title

Newsletter

Email:

I agree!

Subscribe

Visit us here!

The main web page has a header with a navigation bar and a search bar. The main content area features a large heading "My awesome website!". Below it is a "Welcome!" section with a video player placeholder. A "News" section follows, containing three news items with titles and descriptions. To the right is a "Newsletter" sidebar with fields for email, an "I agree!" checkbox, and a "Subscribe" button. At the bottom right is a map with a green shaded area and a yellow border.



A Web Page

https://example.com

My awesome website!

Welcome!

News

Awesome image caption

News

News title

News title

News title

Newsletter

Email:

I agree!

Subscribe

Visit us here!

This wireframe illustrates a responsive website design. The desktop version features a header with a logo and navigation links (Start, Courses, Links, Contact), a main content area with a welcome message, a video player, news sections, and a newsletter sign-up form. The mobile version shows a simplified layout with a welcome message, a large video player, and a news section. Placeholder text and media icons are used throughout the wireframe.



Dags för demo!

Visa korrekt layout på mobiler

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

CSS
IS
AWESOME

A stack of open books is visible at the bottom of the image, their pages fanned out. The books are bound in the center, and the pages are a light beige color. The background is a solid dark teal.

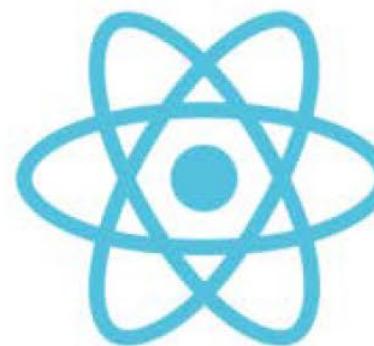
Ramverk & bibliotek
för webbutveckling



enyo



GWT



Ractive.js



Sammy.js



dojo

&



mochikit



canjs

jQuery

ember



Knockout.



ext js

METEOR

A WHOLE NEW

WORLD

**Work
Smarter
Not
Harder**

Nytt projekt, nya möjligheter!





The Imitation Game



Filmtajm

Välkomna!

På denna site kan man se vilka filmer som har beskådats, man kan även se vad filmerna handlade om och vilka betyg de fått av betraktarna tillsamman eller var och en för sig.

Trots vår stora biosalong så är det inte plats till fler ordinarie medlemmar, men pass upp plötsligt vidgarvi vyerna och bjuder in till specailarrageman.g

Titta gärna runtoch få enkänsla för varför vi anser att sista måndagen i månaden alltid är månadens höjdpunkt.



index.html ●

example-site > index.html

1

The Imitation Game



Filmtajm

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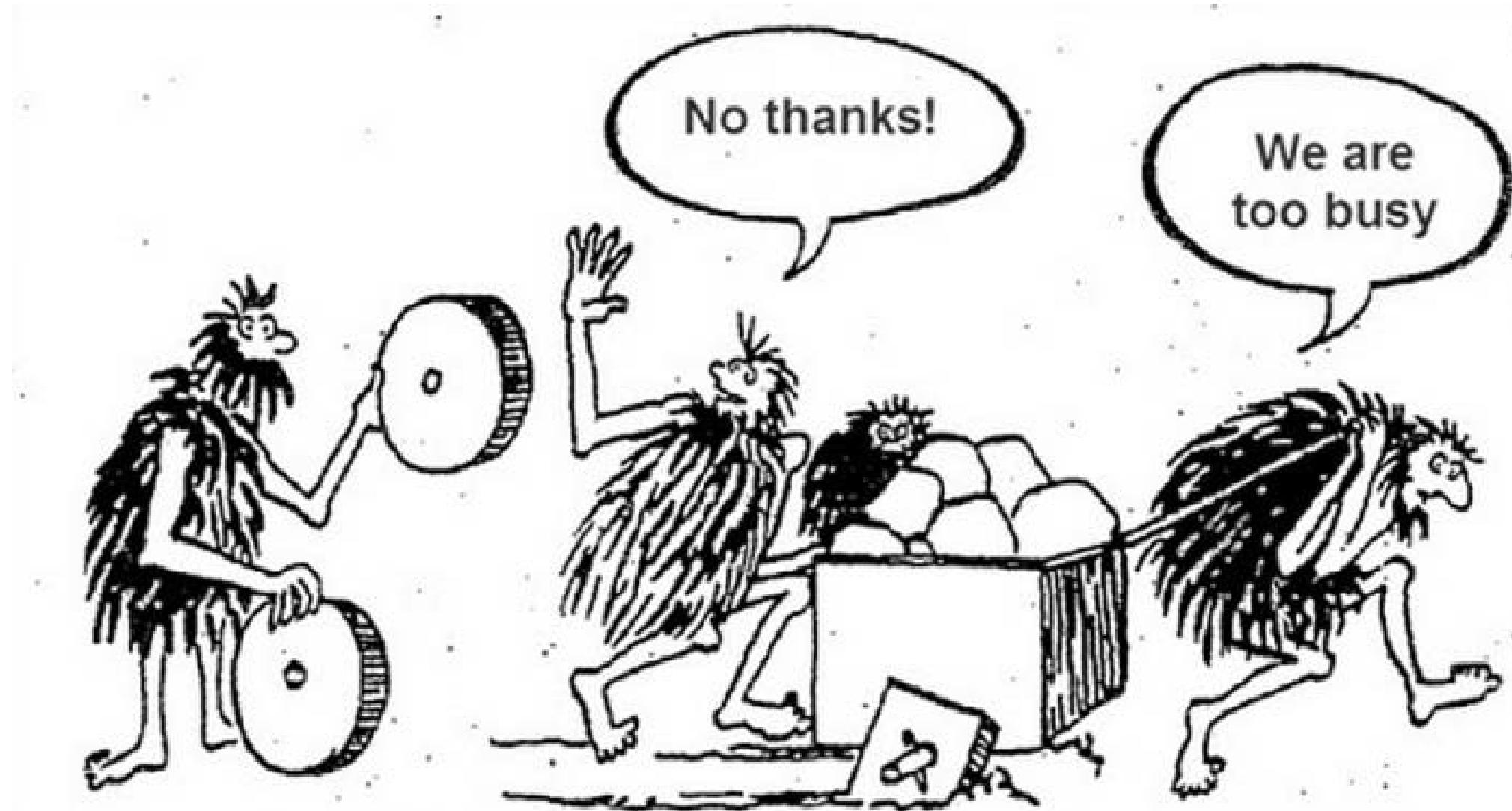
Titta gärna runtoch få enkänsla för varför vi anser att sista måndagen i månaden alltid är månadens höjdpunkt.

Hmm... en ganska lång bit kvar...

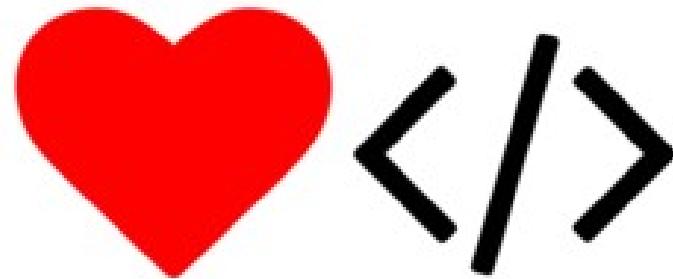




Kan vi inte vara effektivare?



Bibliotek – färdig kod att använda



Love your code.



GETTING STARTED

MATERIALIZE CSS FRAMEWORK



Bootstrap



Foundation



The modular
front-end
web framework



BULMA.io

De grundläggande tankarna bakom ramverk är enkla: Samla fungerande kod och gör den återanvändbar. Passa samtidigt på att presentera ett enhetligt sätt att skriva kod.

<http://computersweden.idg.se/2.2683/1.606077/ramverk-eller-inte-ramverk--det-ar-fragan>

Fördelar med ramverk

- Utvecklare slipper skriva kod för grundläggande uppgifter själva
- Koden i ett ramverk kan antas vara testad och tämligen felfri
- Det blir enklare att få en struktur för hur kod ska skrivas
- Medlemmar i utvecklarorganisationer och projekt kan enklare anamma ett enhetligt arbetssätt

Exempel på ramverk för webbdesign



Build fast, responsive sites with Bootstrap

Quickly design and customize responsive mobile-first sites with Bootstrap, the world's most popular front-end open source toolkit, featuring Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful JavaScript plugins.



[Get started](#)

[Download](#)

Currently v4.5.2



Adobe Creative Cloud for
Teams starting at \$33.99
per month.

ads via Carbon





1.0.0

Search



About

Getting Started

CSS

Components

JavaScript

Forms

Mobile

Showcase

Themes

updated

Materialize

A modern responsive front-end framework based on
Material Design

[GET STARTED](#)[UPGRADE FROM 0.100.2](#)

Release: 1.0.0



Adobe Creative Cloud for
Teams starting at \$33.99 per
month.

ads via Carbon

Latest Commit on Github: [824e78248b3de81e383445e76ffb04cc3264fe7d](#) 4 months ago

[GITHUB](#)

Foundation

The most advanced responsive front-end framework in the world.

[Download Foundation 6](#)

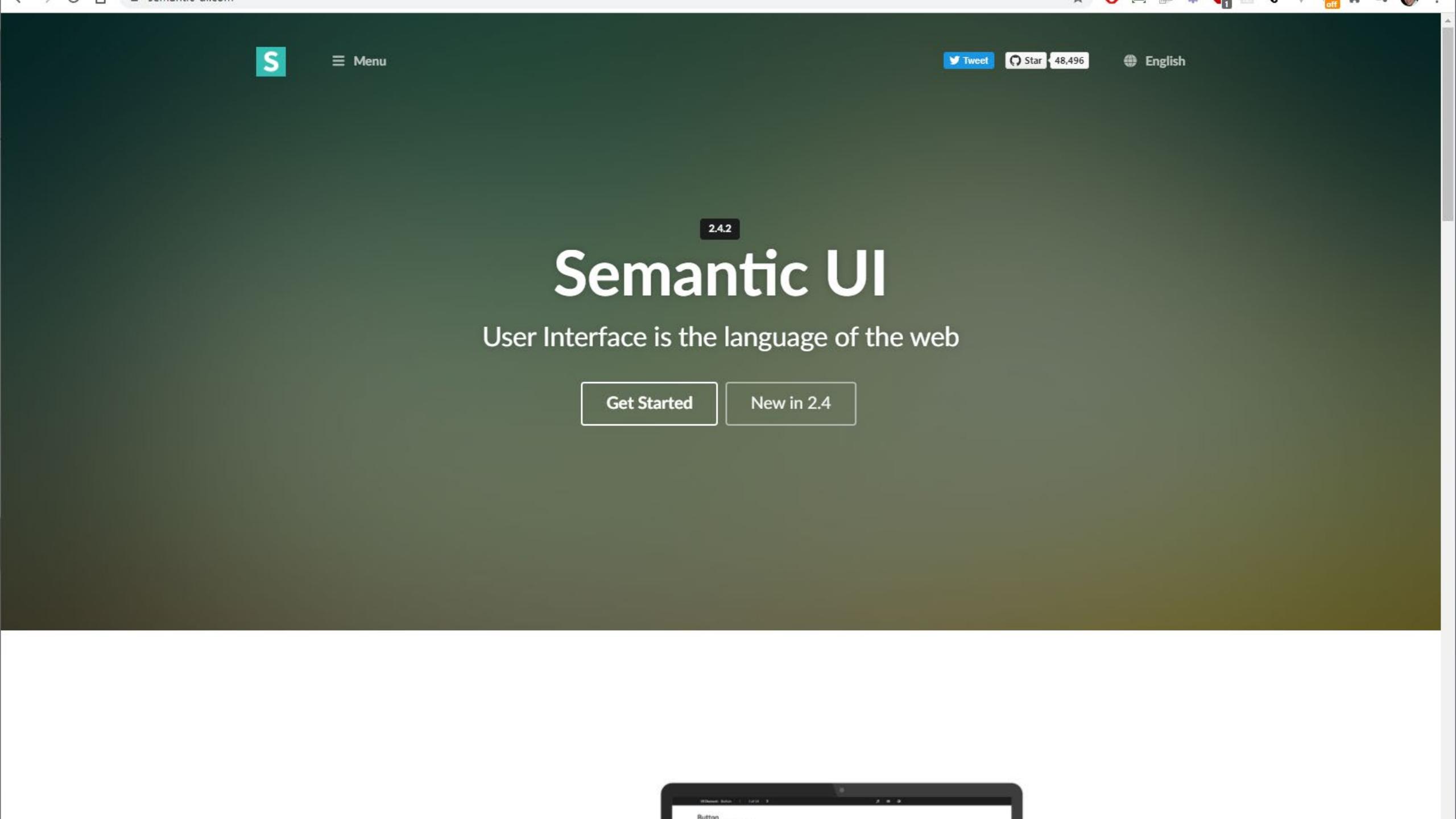
★ 21.4k GitHub stars

🐦 @FoundationCSS



Responsive design gets a whole lot faster

A Framework for any device, medium, and accessibility. Foundation is a family of responsive front-end frameworks that make it easy to design beautiful responsive websites, apps and emails that look amazing on any device. Foundation is semantic, readable, flexible, and completely customizable. We're constantly



☰ Menu

Tweet

Star 48,496

English

2.4.2

Semantic UI

User Interface is the language of the web

[Get Started](#)

[New in 2.4](#)

Får vi använda koden?

Vilken licens använder sig ramverken av?

Tips: <http://choosealicense.com/>

Choose an open source license

An open source license protects contributors and users. Businesses and savvy developers won't touch a project without this protection.

{ Which of the following best describes your situation? }



I need to work in a community.

Use the [license preferred by the community](#) you're contributing to or depending on. Your project will fit right in.

If you have a dependency that doesn't have a license, ask its maintainers to [add a license](#).



I want it simple and permissive.

The [MIT License](#) is short and to the point. It lets people do almost anything they want with your project, like making and distributing closed source versions.

[Babel](#), [.NET Core](#), and [Rails](#) use the MIT License.



I care about sharing improvements.

The [GNU GPLv3](#) also lets people do almost anything they want with your project, except distributing closed source versions.

[Ansible](#), [Bash](#), and [GIMP](#) use the GNU GPLv3.

{ What if none of these work for me? }

My project isn't software.

[There are licenses for that.](#)

I want more choices.

[More licenses are available.](#)

I don't want to choose a license.

[Here's what happens if you don't.](#)

Dokumentation?

Ett sätt att lära sig hur andras mjukvara
fungerar!

I'VE GOT SKILLS

DOCUMENTATION SKILLS, CODING SKILLS



CSS & JS-ramverk

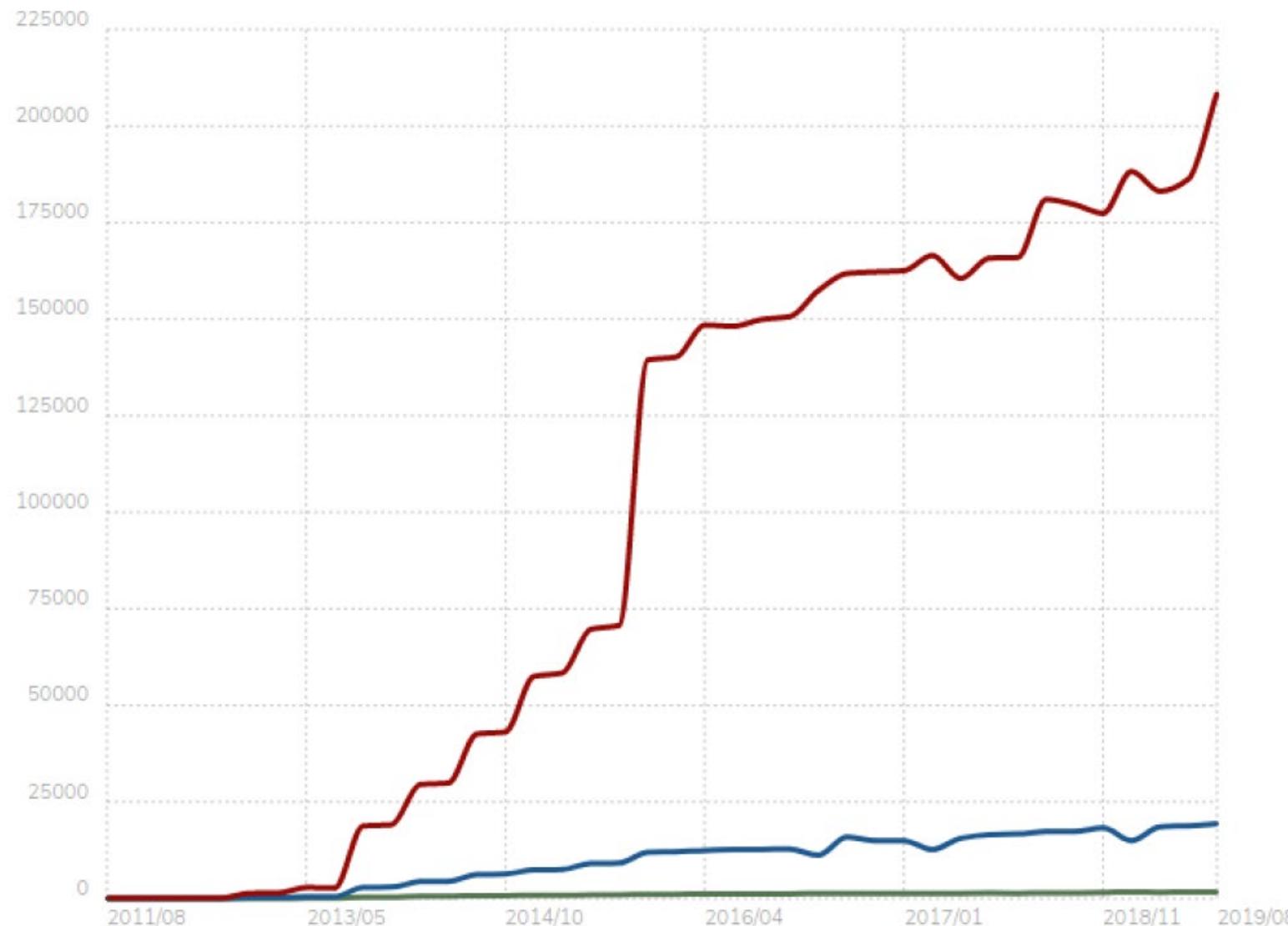
Twitter Bootstrap Usage Statistics

Top 10k •—

Top 100k •—

Top 1m •—

All Internet •—





Bibliotek för JavaScript



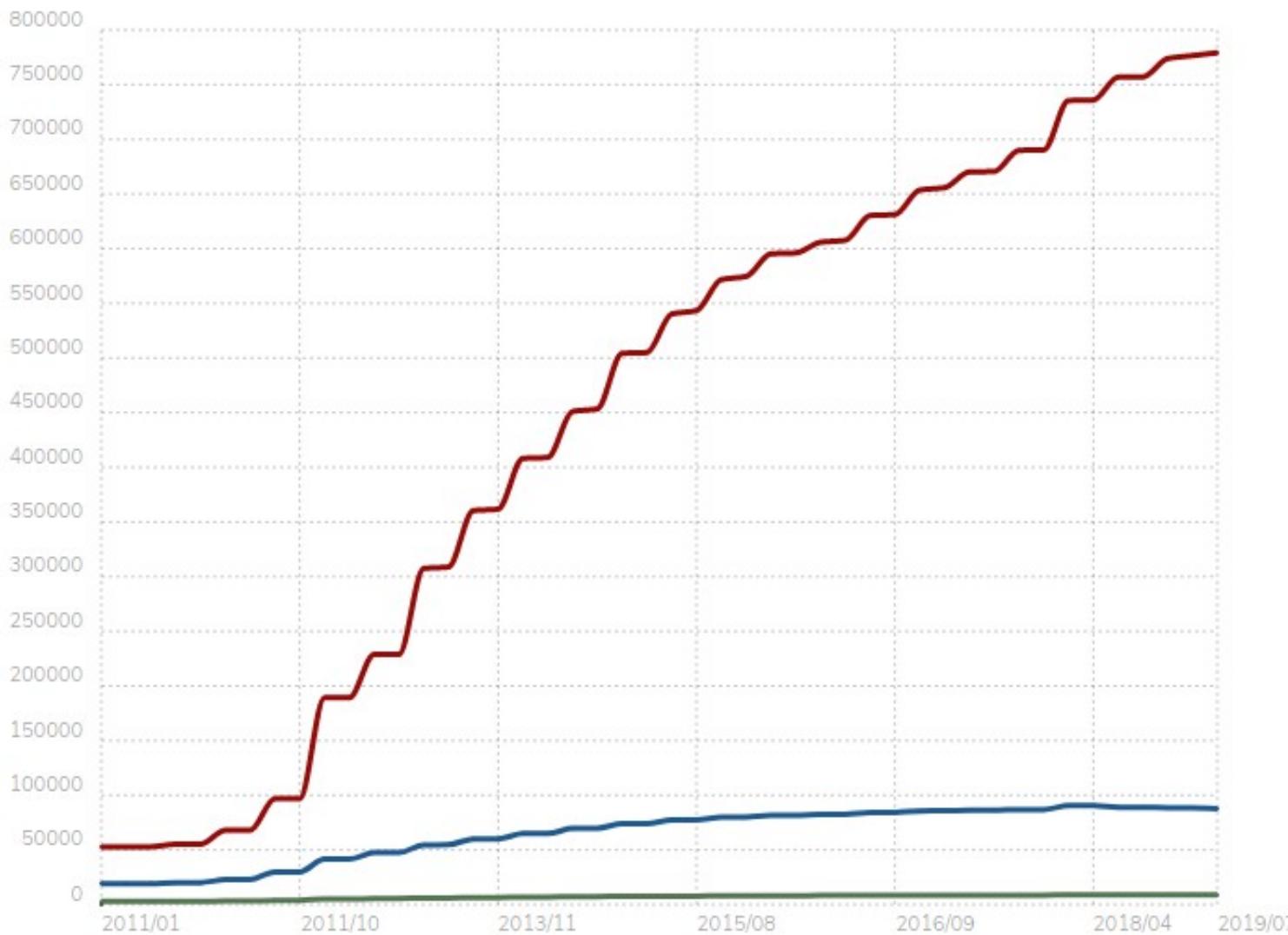
jQuery Usage Statistics

Top 10k

Top 100k

Top 1m

All Internet



Download Lead List

We know of at least 66,179,046 live websites using jQuery.

Site Totals

Total Live 66,179,046

7,159,829 additional website redirects?

Swedish Live Sites 146,067
Estimated

Top 1m 80.3%
803,049

Top 100k 87.7%
87,701

Top 10k 87.99%
8,799

United States 50,384,282*

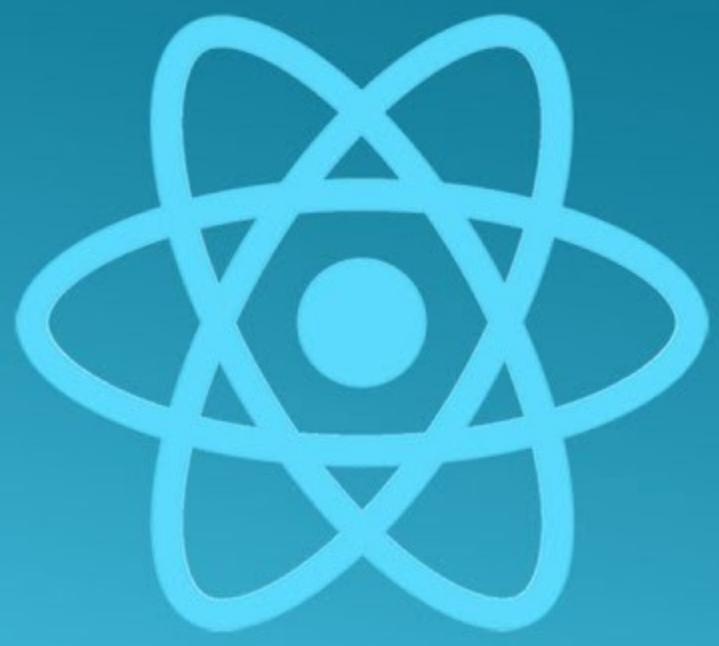
Russia 2,766,851*

United Kingdom 2,132,005*

India 1,780,878*

Canada 1,257,401*

Ramverk för JavaScript



Hur använder man ett ramverk?

Getting started

Introduction

Download

Contents

Browsers & devices

JavaScript

Theming

Build tools

Webpack

Accessibility

Layout

Content

Components

Utilities

Extend

Migration

About

Introduction

[View on GitHub](#)

Get started with Bootstrap, the world's most popular framework for building responsive, mobile-first sites, with BootstrapCDN and a template starter page.



Limited time offer: Get 10 free Adobe Stock images.
ads via Carbon

Quick start

CSS

JS

Starter template

Important globals

HTML5 doctype

Responsive meta tag

Box-sizing

Reboot

Community

Quick start

Looking to quickly add Bootstrap to your project? Use BootstrapCDN, provided for free by the folks at StackPath. Using a package manager or need to download the source files? [Head to the downloads page.](#)

CSS

Copy-paste the stylesheet `<link>` into your `<head>` before all other stylesheets to load our CSS.

```
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" integrity="sha384-JcKb8q3iqJ61"
```

Copy

JS

Many of our components require the use of JavaScript to function. Specifically, they require [jQuery](#), [Popper.js](#), and our own JavaScript plugins. Place the following `<script>`s near the end of your pages, right before the closing `</body>` tag, to enable them. jQuery must come first, then Popper.js, and then our JavaScript plugins.

We use [jQuery's slim build](#), but the full version is also supported.

```
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-DfgJHh0HJyTTNGo8aAF9fYfCvuuL8Z2zHQA&lt;/script>
```

Copy

Är det ”fusk” att använda ramverk?

Dags att kolla in ramverk!
- Bootstrap

<https://getbootstrap.com>

Build fast, responsive sites with Bootstrap

Quickly design and customize responsive mobile-first sites with Bootstrap, the world's most popular front-end open source toolkit, featuring Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful JavaScript plugins.



[Get started](#)

[Download](#)

Currently v4.5.2



Adobe Creative Cloud for
Teams starting at \$33.99
per month.

ads via Carbon



HTML



JS



CSS



Search...

Starter template

Be sure to have your pages set up with the latest design and development standards. That means using an HTML5 doctype and including a viewport meta tag for proper responsive behaviors. Put it all together and your pages should look like this:

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" integrity="sha384-JcKb8q3i

      <title>Hello, world!</title>
    </head>
    <body>
      <h1>Hello, world!</h1>

      <!-- Optional JavaScript -->
      <!-- jQuery first, then Popper.js, then Bootstrap JS -->
      <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-DfXdz2htPH0lsSS5nCTpuj/zY4C+OGpamoFVy38MVBnE+Ib
      <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js" integrity="sha384-9/reFTGAW83EW2RDu2S0VKaIzap3
      <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js" integrity="sha384-B4gt1jrGC7Jh4AgTP5dUtOBvfo
    </body>
  </html>
```

That's all you need for overall page requirements. Visit the [Layout docs](#) or our official examples to start laying out your site's content and components.

Important globals

Bootstrap employs a handful of important global styles and settings that you'll need to be aware of when using it, all of which are almost exclusively geared towards the *normalization* of cross browser styles. Let's dive in.

Precompiled Bootstrap

Once downloaded, unzip the compressed folder and you'll see something like this:

```
bootstrap/
  ├── css/
  │   ├── bootstrap-grid.css
  │   ├── bootstrap-grid.css.map
  │   ├── bootstrap-grid.min.css
  │   ├── bootstrap-grid.min.css.map
  │   ├── bootstrap-reboot.css
  │   ├── bootstrap-reboot.css.map
  │   ├── bootstrap-reboot.min.css
  │   ├── bootstrap-reboot.min.css.map
  │   ├── bootstrap.css
  │   ├── bootstrap.css.map
  │   ├── bootstrap.min.css
  │   └── bootstrap.min.css.map
  └── js/
      ├── bootstrap.bundle.js
      ├── bootstrap.bundle.js.map
      ├── bootstrap.bundle.min.js
      ├── bootstrap.bundle.min.js.map
      ├── bootstrap.js
      ├── bootstrap.js.map
      ├── bootstrap.min.js
      └── bootstrap.min.js.map
```

[Copy](#)[Precompiled Bootstrap](#)[CSS files](#)[JS files](#)[Bootstrap source code](#)

Getting started

[Introduction](#)[Download](#)

Contents

[Browsers & devices](#)[JavaScript](#)[Theming](#)[Build tools](#)[Webpack](#)[Accessibility](#)

Layout

Content

Components

Utilities

Extend

Migration

About

This is the most basic form of Bootstrap: precompiled files for quick drop-in usage in nearly any web project. We provide compiled CSS and JS (`bootstrap.*`), as well as compiled and minified CSS and JS (`bootstrap.min.*`). [source maps](#) (`bootstrap.*.map`) are available for use with certain browsers' developer tools. Bundled JS files (`bootstrap.bundle.js`) and minified `bootstrap.bundle.min.js` include [Popper](#), but not [jQuery](#).

CSS files

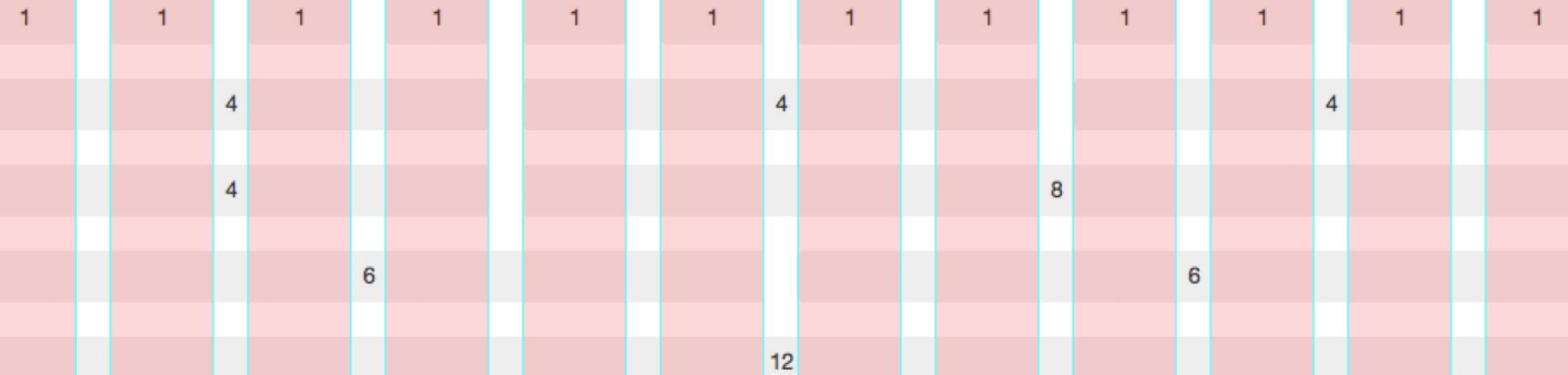
Bootstrap includes a handful of options for including some or all of our compiled CSS.

Vad ingår i Bootstrap?

Vad ingår i Bootstrap?

- Layout
 - Responsiv layout genom "grids"
 - Grundläggande CSS
 - Typografi
 - Tabeller
 - Figurer
 - Bilder
 - Etc.
- Komponenter
 - Olika visuella / funktionella komponenter så som menyer/knappar/bildspel/etc.
- Hjälpmedel för att skräddarsy sin webbsida

Label	Layout width	Column width	Gutter width
Smartphones	480px and below	Fluid columns, no fixed widths	
Smartphones to tablets	767px and below	Fluid columns, no fixed widths	
Portrait tablets	768px and above	42px	20px
Default	980px and up	60px	20px
Large display	1200px and up	70px	30px



Getting started

An overview of Bootstrap, how to download and use, basic templates and examples, and more.



Become an engineer - join MakerSquare's 12-week immersive JavaScript classes.
ads via Carbon

9 Columns

Download

Bootstrap (currently v3.3.5) has a few easy ways to quickly get started, each one appealing to a different skill level and use case. Read through to see what suits your particular needs.

Bootstrap

Compiled and minified CSS, JavaScript, and fonts. No docs or original source files are included.

[Download Bootstrap](#)

Source code

Source Less, JavaScript, and font files, along with our docs. Requires a Less compiler and some setup.

[Download source](#)

Sass

Bootstrap ported from Less to Sass for easy inclusion in Rails, Compass, or Sass-only projects.

[Download Sass](#)

[Download](#)

[What's included](#)

[Compiling CSS and JavaScript](#)

[Basic template](#)

[Examples](#)

[Tools](#)

[Community](#)

[Disabling responsiveness](#)

[Migrating from 2.x to 3.0](#)

[Browser and device support](#)

[Third party support](#)

[Accessibility](#)

[License FAQs](#)

[Translations](#)

[Back to top](#)

3 Columns

Bootstrap CDN

The folks over at MaxCDN graciously provide CDN support for Bootstrap's CSS and JavaScript. Just use these [Bootstrap CDN](#) links.

```
<!-- Latest compiled and minified CSS -->
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">

<!-- Optional theme -->
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap-theme.min.css">
```

[Copy](#)

Låt oss ta en närmre titt! =)

<https://getbootstrap.com>