



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?

---

V.	Måndag	Tisdag	Onsdag	Torsdag	Fredag	L	S
13		F: Kursintro	F: Video: HTML/CSS F: Repetition JS	L: Repetition HTML/CSS & JS			
14	F: JavaScript & DOM	D: R1 & R2	L: JavaScript & DOM				
			F: RWD & CSS-ramverk D: Inl. 1	L: RWD & CSS-ramverk	D: Peer-review (Inl. 1.b)		
16	F: jQuery & Ajax		D: Inl. 2	L: jQuery & Ajax	D: Peer-review (Inl. 2.b)		
17	F: Store & Locate		D: Inl. 3	L: Store & Locate	D: Peer-review (Inl. 3.b)		
18			F: Utvecklingsmetodik D: Inl. 4	L: Utvecklingsmetodik	D: Peer-review (Inl. 4.b)		
19	F: JS-Ramverk		D: Inl. 5	L: JS-Ramverk			
20	Projekthandledning			Projekthandledning D: Inl. 6			
21	Projekthandledning			Projekthandledning			
22				Projektredovisning (1)	Projektredovisning (2)	D: Projekt	

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

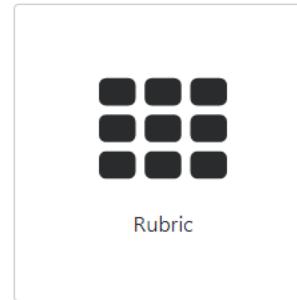
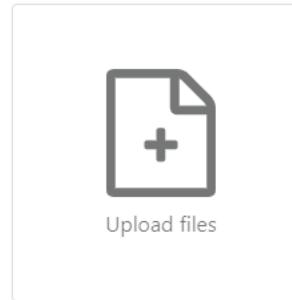
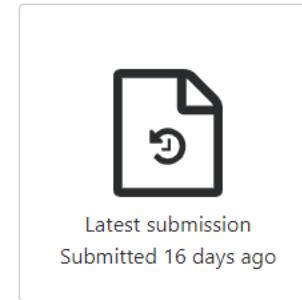
#### Inlämningsuppgift 1.b - JavaScript: DOM

Due at 2021-04-12 00:59

Course feedback



Codegrade



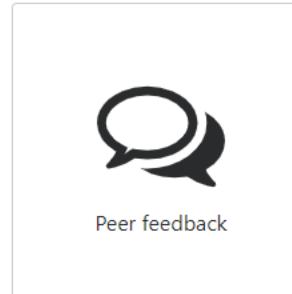
Du kan inte se alla kommentarer just nu eftersom uppgiften håller på att bedömas

Lägg till en kommentar:

Mediakommentar

Bifoga fil

Spara



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## 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  

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

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

← → -04-09 16:26 ⚙️ ⬇️

Code Feedback Overview AutoTest CF

1.  
2.  
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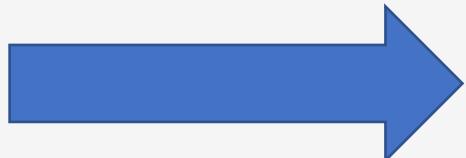
assignment\_1.css  
assignment\_1.html  
**assignment\_1.js**  
assignment\_2.css

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

Lägg till en kommentar:

Mediakommentar Bifoga fil

Spara



## 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

*I mällarna som ni laddat ned ovan (det är filerna [assignment\\_1\\_\\*](#), som är relevanta för denna del) finns en HTML-fil*

## Vanliga fel

---

Vid inlämningsuppgifter



Files

Feedback

-  
  - assignment\_1.css
  - assignment\_1.html
  - assignment\_1.js
  - assignment\_2.css
  - assignment\_2.html
  - assignment\_2.js
  - assignment\_3.css
  - assignment\_3.html
  - assignment\_3.js

Files

Feedback

-  
  -  \_MACOSX
  -  assignment-1b-start-kit
    - assignment\_1.css
    - assignment\_1.html
    - assignment\_1.js
    - assignment\_2.css
    - assignment\_2.html
    - assignment\_2.js
    - assignment\_3.css
    - assignment\_3.html
    - assignment\_3.js



# 1. Uppladdning av mappstruktur

---

2



## Event: preventDefault() method

The `preventDefault()` method of the [Event](#) interface tells the [user agent](#) that if the event does not get explicitly handled, its default action should not be taken as it normally would be.

2. Glömmer att  
förhindra att  
formular  
skickas iväg



COLOR SLIDES

# Dagens Agenda

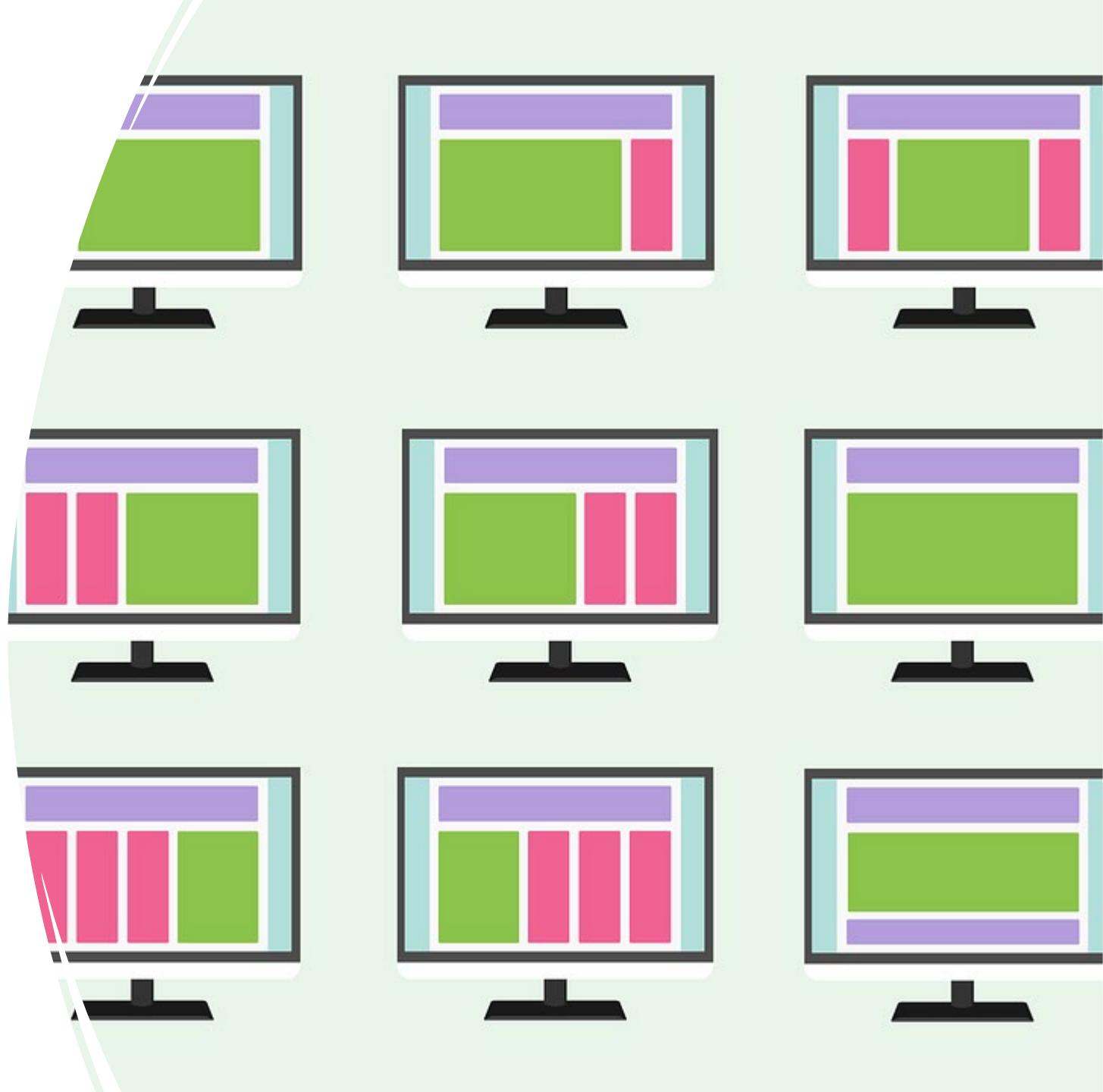
- HTML & CSS: Skapa layout
  - CSS Flexbox
  - CSS Grid
- Responsiv webbdesign
  - Designa för olika enheter
    - Dator
    - Surfplatta
    - Mobiltelefon
  - CSS Breakpoints
- Video: CSS (och JS) Ramverk
  - Bootstrap
    - Layout
    - Komponenter
  - + Andra ramverk



CSS  
IS  
AWESOME

# Layout

---

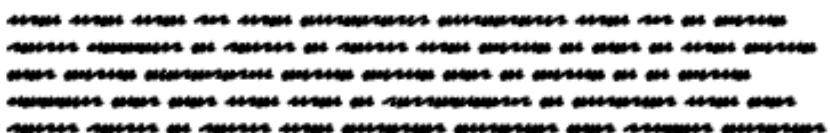
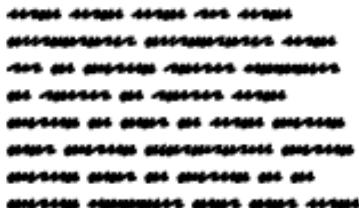




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Awesome image caption



Awesome image caption



Awesome image caption

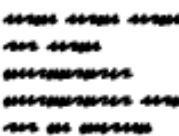


Awesome image caption

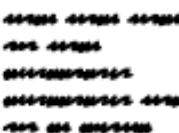


Awesome image caption

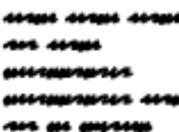
News



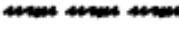
News title



News title



News title



Newsletter

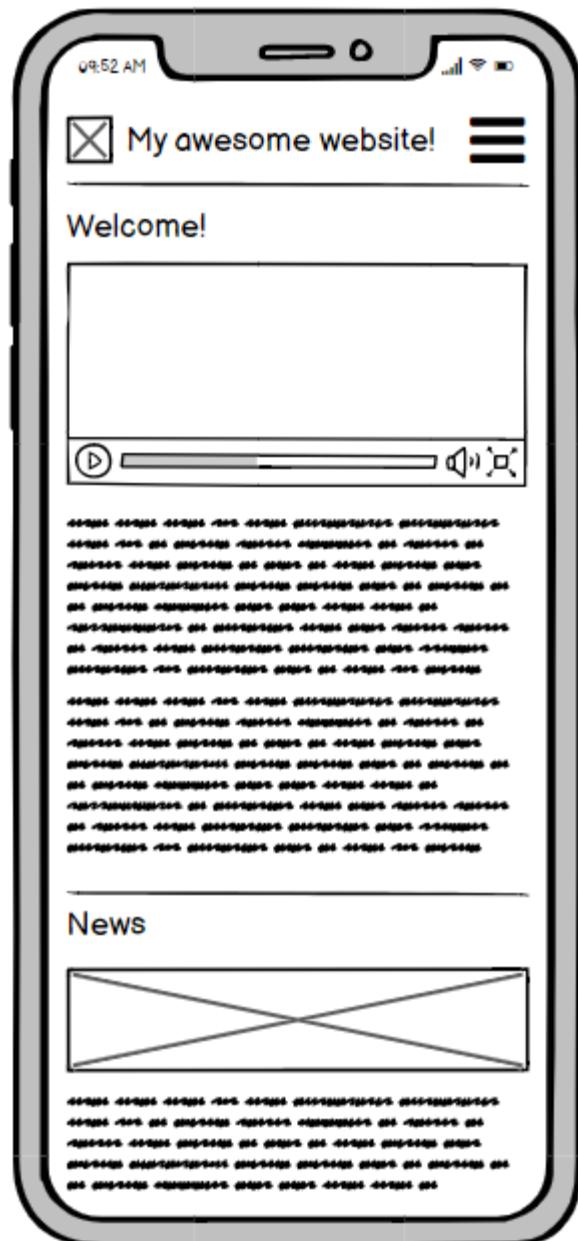
Email:

I agree!

Subscribe

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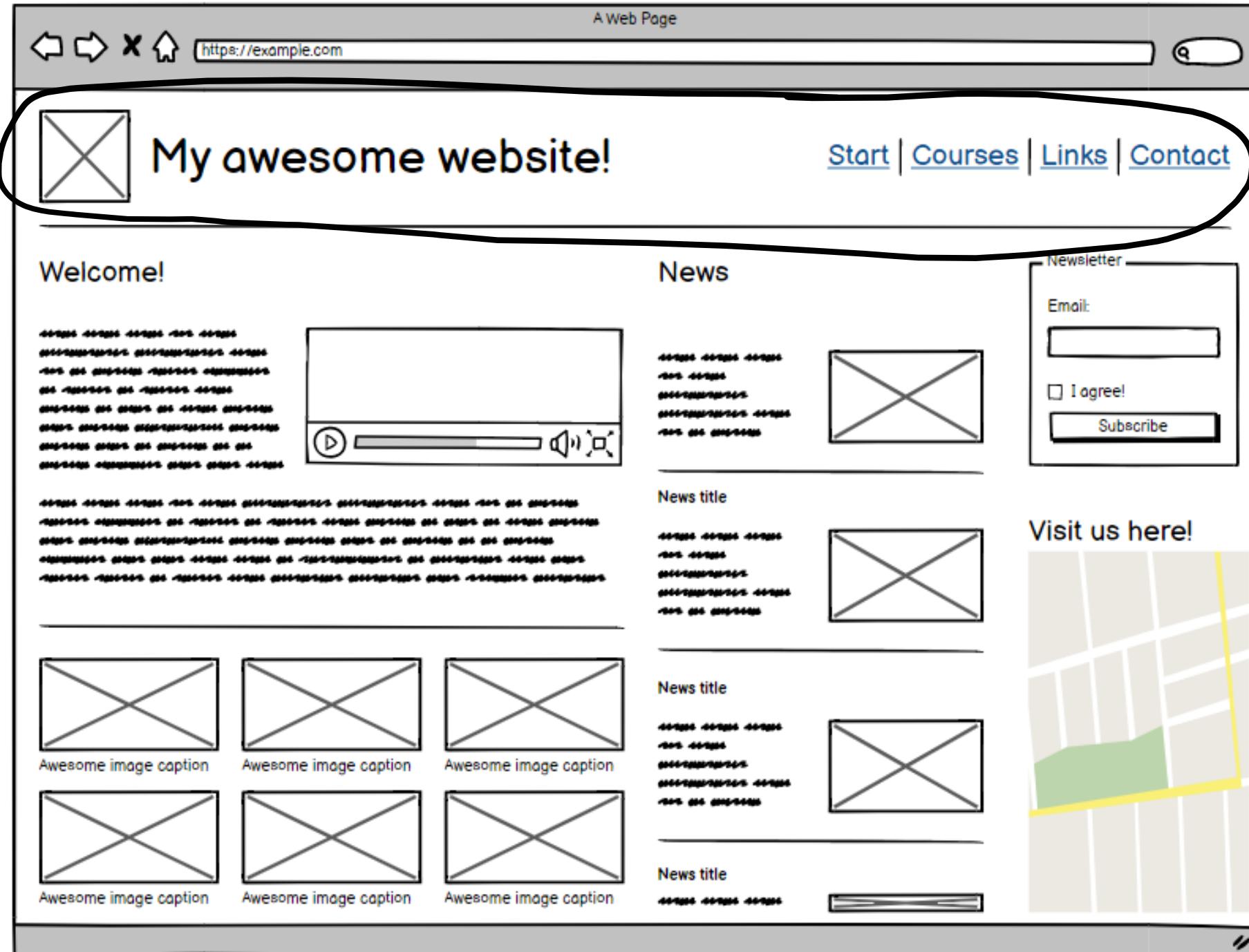




A wireframe of a web browser window titled "A Web Page". The address bar shows the URL <https://example.com>. The page content includes:

- Header:** A logo icon (cross shape) followed by the text "My awesome website!" and a navigation bar with links: [Start](#) | [Courses](#) | [Links](#) | [Contact](#).
- Welcome Section:** The text "Welcome!" followed by two video placeholders with play and volume icons. Below them is a large block of placeholder text consisting of numerous small, illegible characters.
- News Section:** The word "News" followed by three news items. Each news item has a thumbnail placeholder (cross shape), a title placeholder (cross shape), and a short text snippet placeholder (cross shape).
- Newsletter Form:** A sidebar with the heading "Newsletter". It contains fields for "Email:" (with a placeholder box), a checkbox labeled "I agree!", and a "Subscribe" button.
- Map Section:** A map with a green shaded area and a yellow border, accompanied by the text "Visit us here!".

Sid huvud →

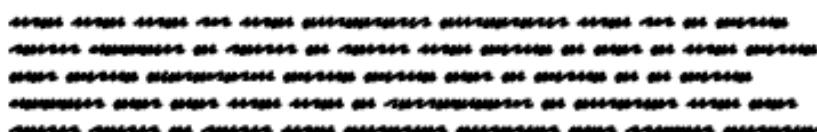
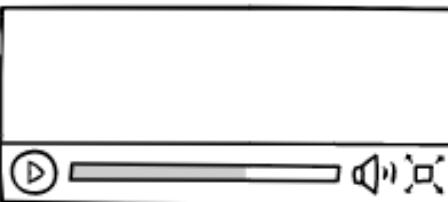
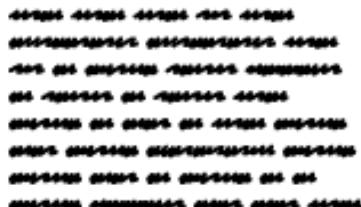




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Awesome image caption



Awesome image caption



Awesome image caption



Awesome image caption

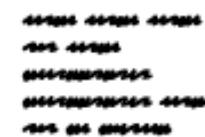


Awesome image caption

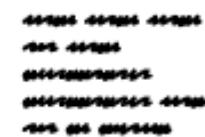


Awesome image caption

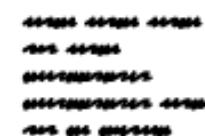
News



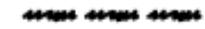
News title



News title



News title



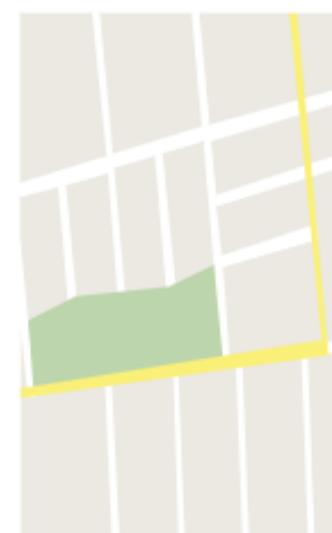
Newsletter

Email:

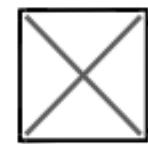
I agree!

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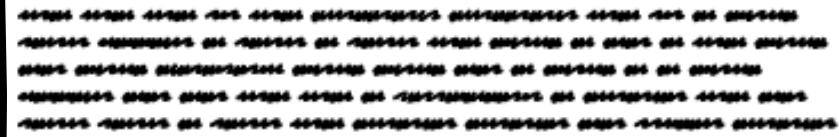
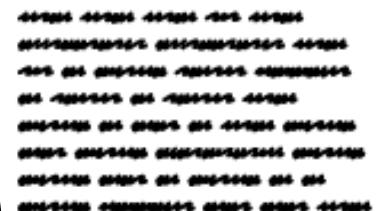
← Navigation



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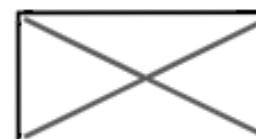
Welcome!



Awesome image caption



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Awesome image caption

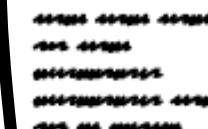


Awesome image caption

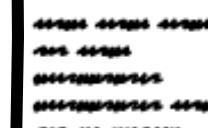
News



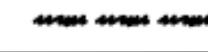
News title



News title



News title



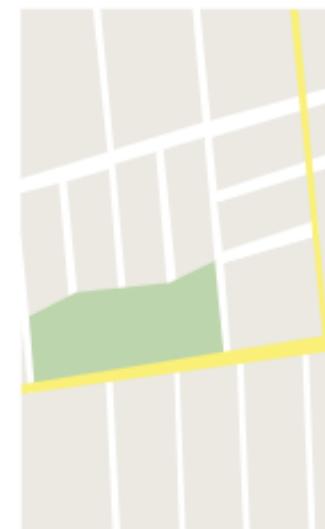
Newsletter

Email:

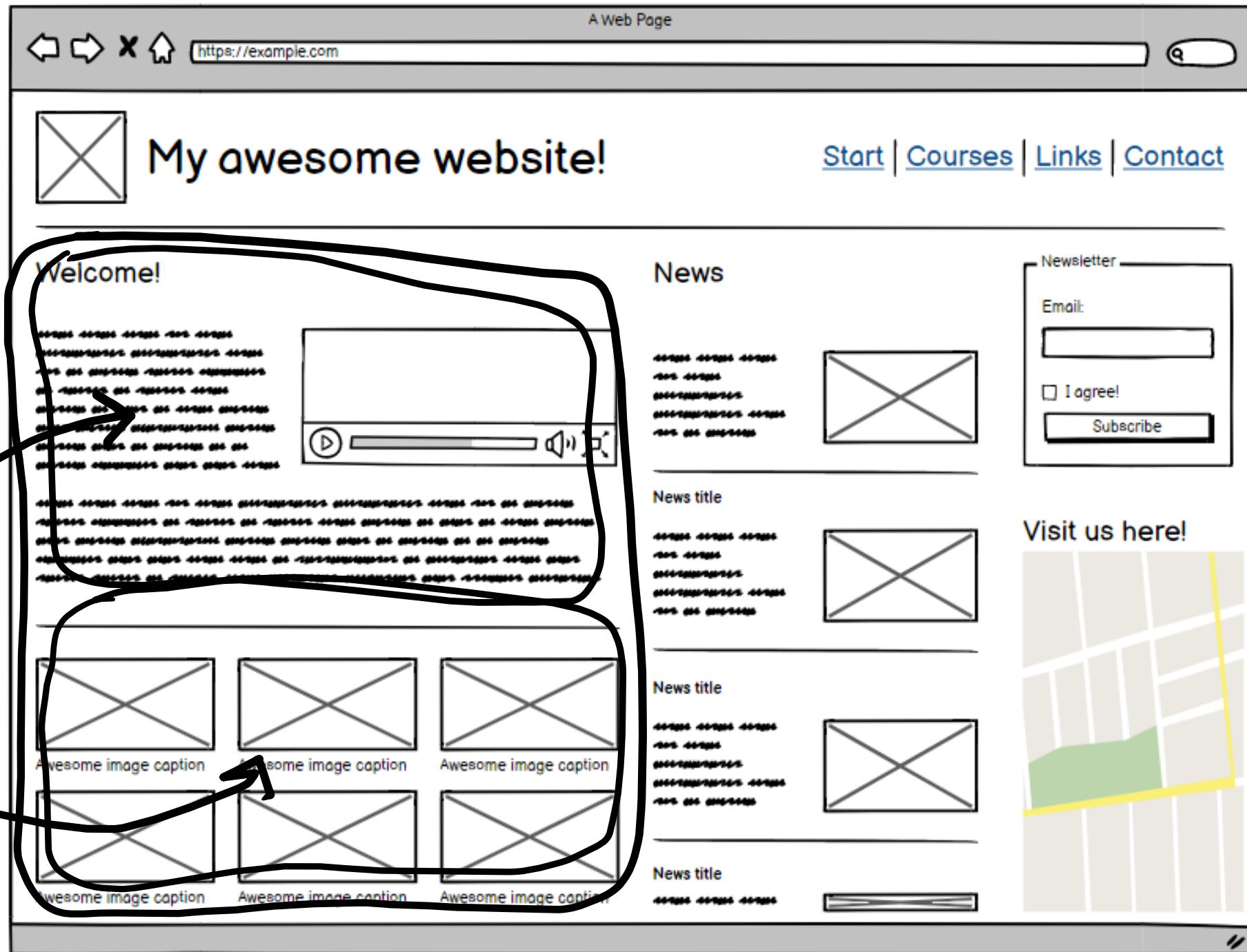
I agree!

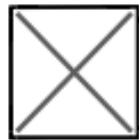
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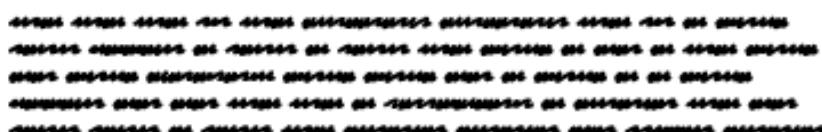
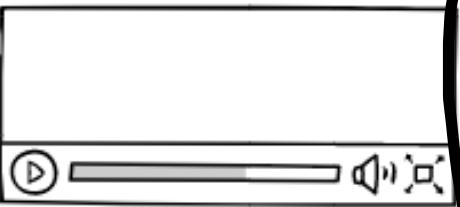
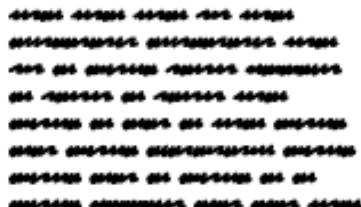
Huvudinnehåll





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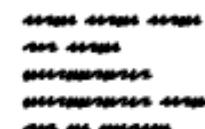


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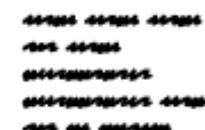


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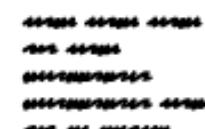
## News



News title



News title



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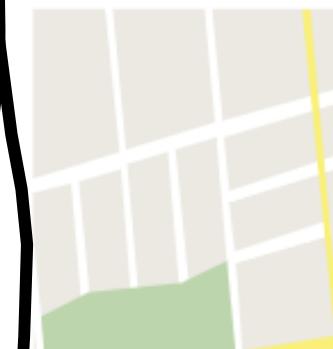
Newsletter

Email:

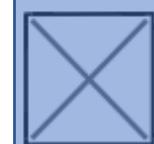
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News



## News title



## News title



## News title



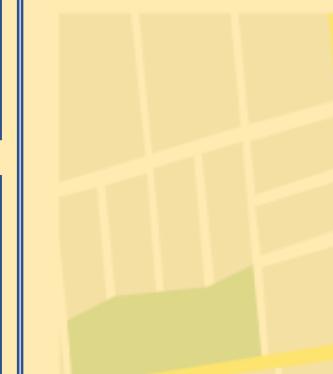
Email

1

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1

1

# <header>

# <main>

## <aside>

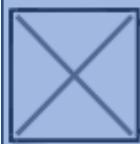
## <nav>

# <article>

# <section>

# CSS - Grid

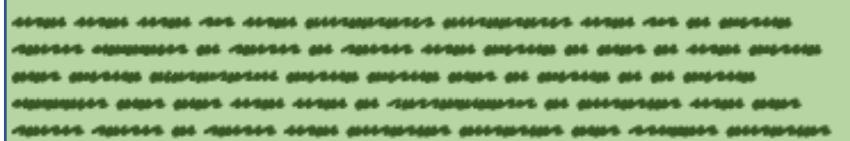
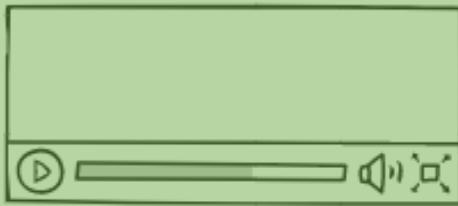
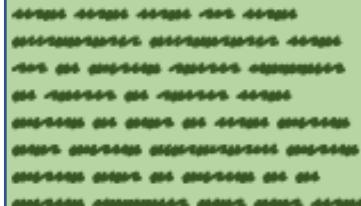
Designa webbsidor enligt ett rutnät (rader & kolumner)



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Awesome image caption



Awesome image caption



Awesome image caption



Awesome image caption



Awesome image caption

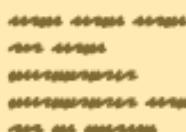
News



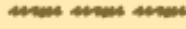
News title



News title



News title



Newsletter

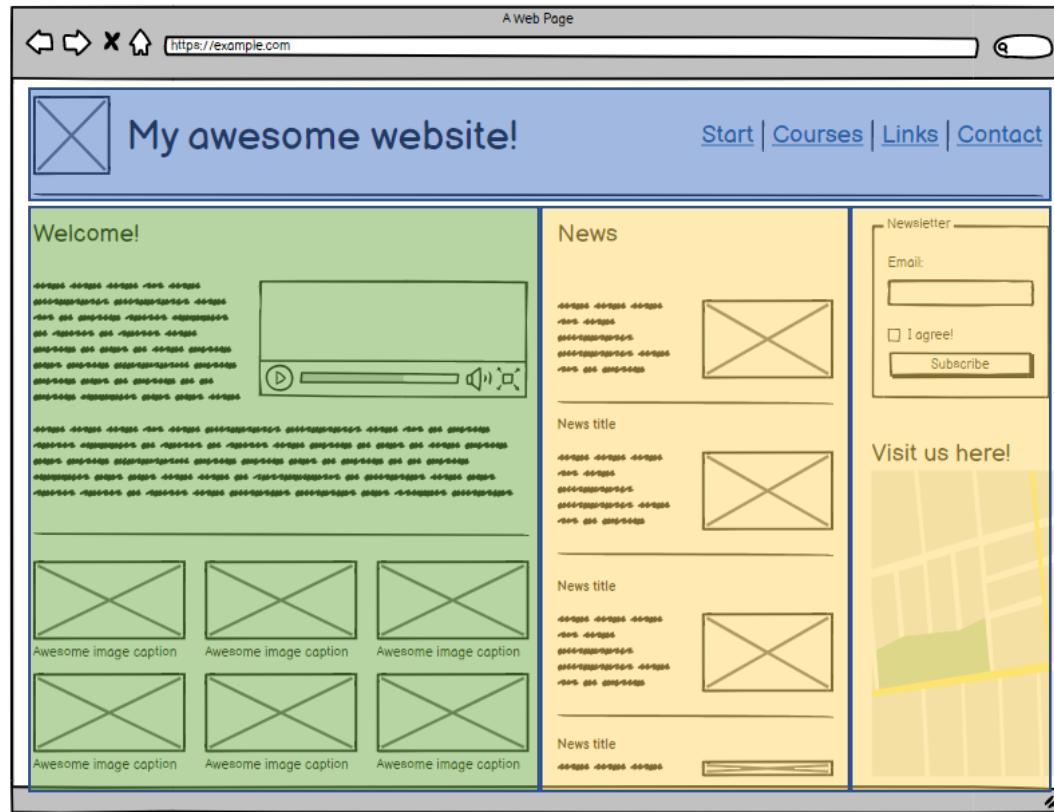
Email:

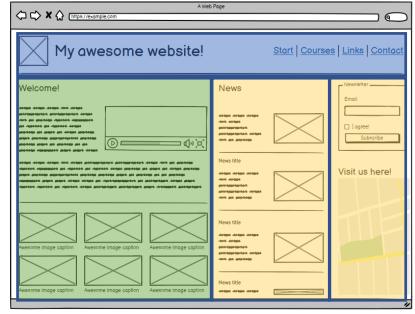
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3 kolonner

# Sidhuvud

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 downwards, creating a sense of motion. The overall effect is modern and minimalist.

# 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!

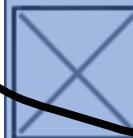
Reference this guide a lot? Pin a copy up on the office wall.

[Buy Poster](#)



# CSS - Flexbox

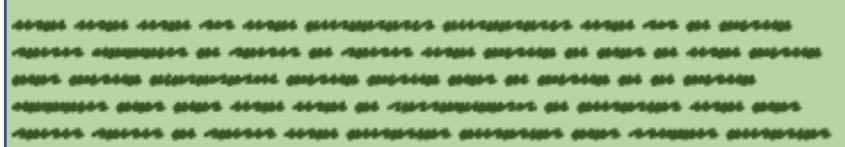
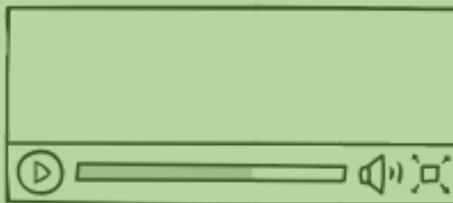
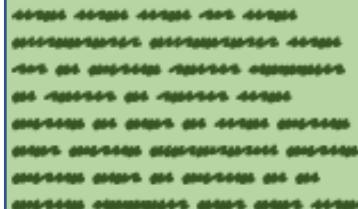
Placera en samling element enligt givna regler



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Awesome image caption



Awesome image caption



Awesome image caption



Awesome image caption

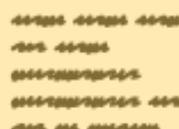


Awesome image caption



Awesome image caption

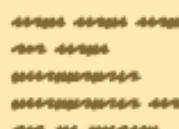
News



News title



News title



News title



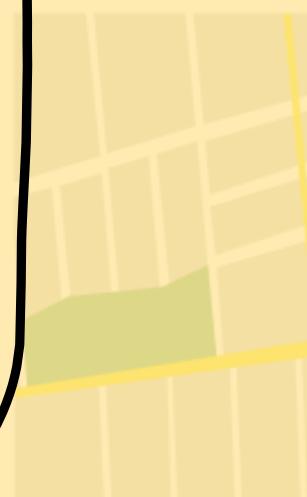
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Email:

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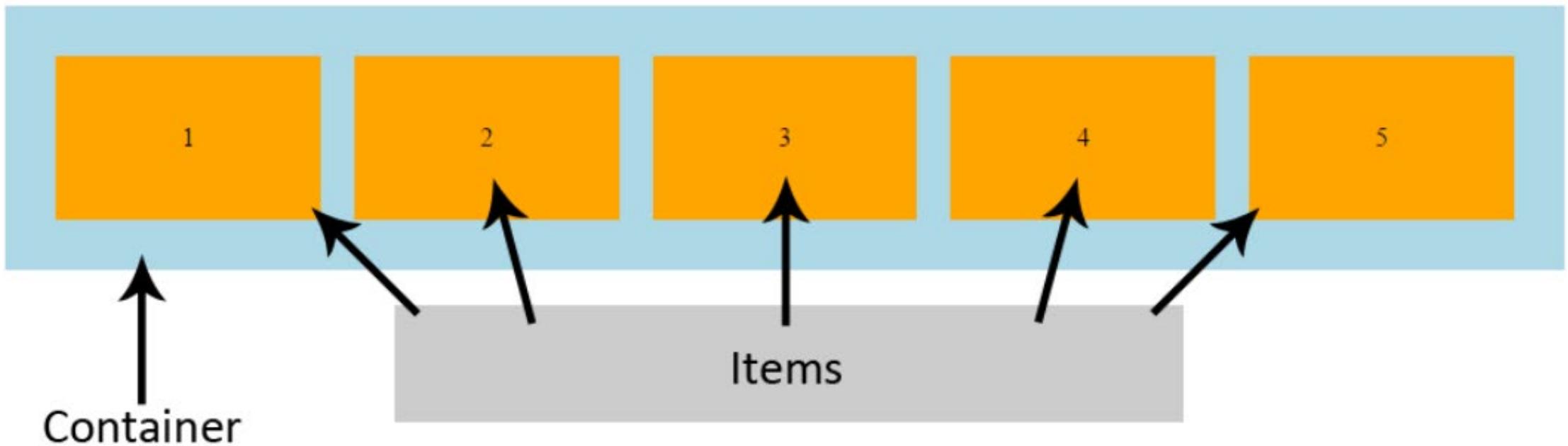
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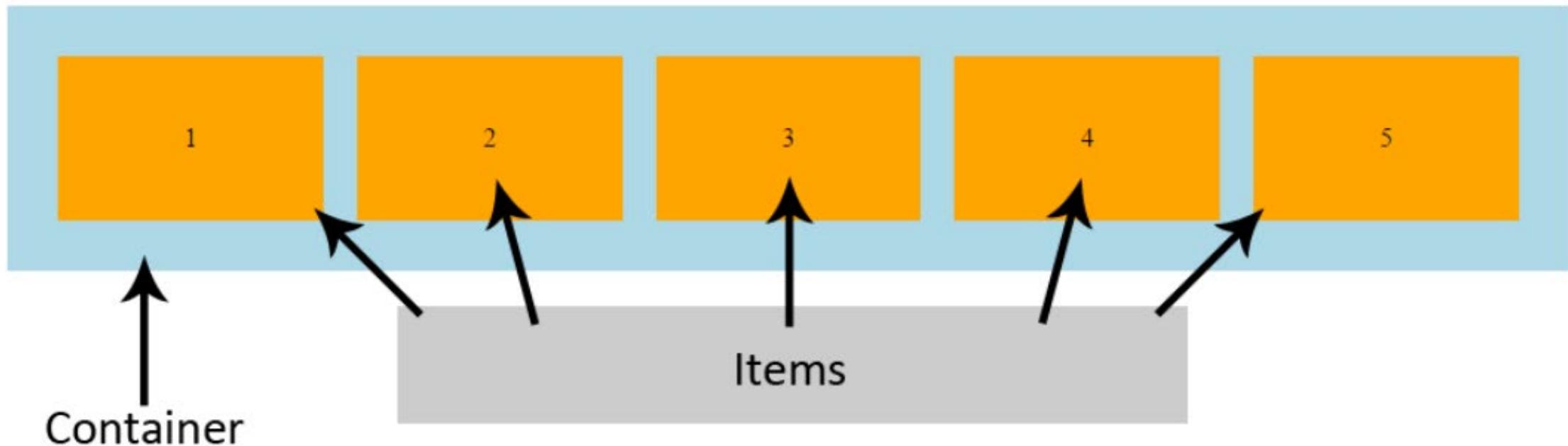
# Vad är flexbox?

- 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.



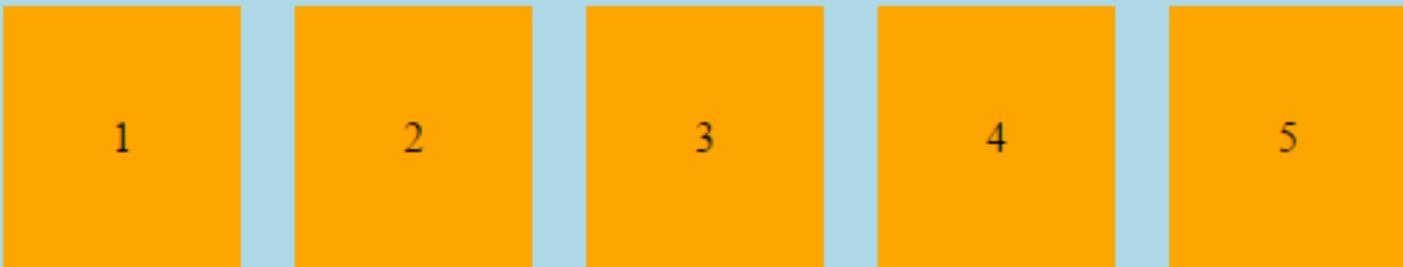
```
<div id="container">  
  <div class="item">1</div>  
  <div class="item">2</div>  
  <div class="item">3</div>  
  <div class="item">4</div>  
  <div class="item">5</div>  
</div>
```

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



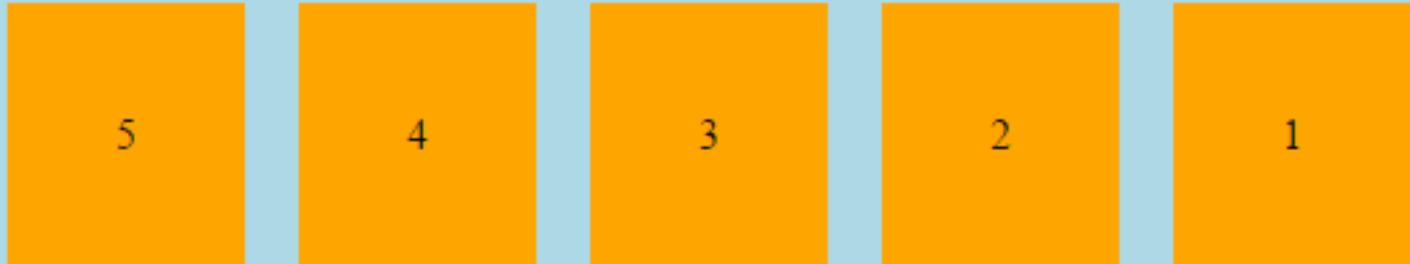
#container

*flex-direction*



`flex-direction: row;`

`flex-direction: row-reverse;`



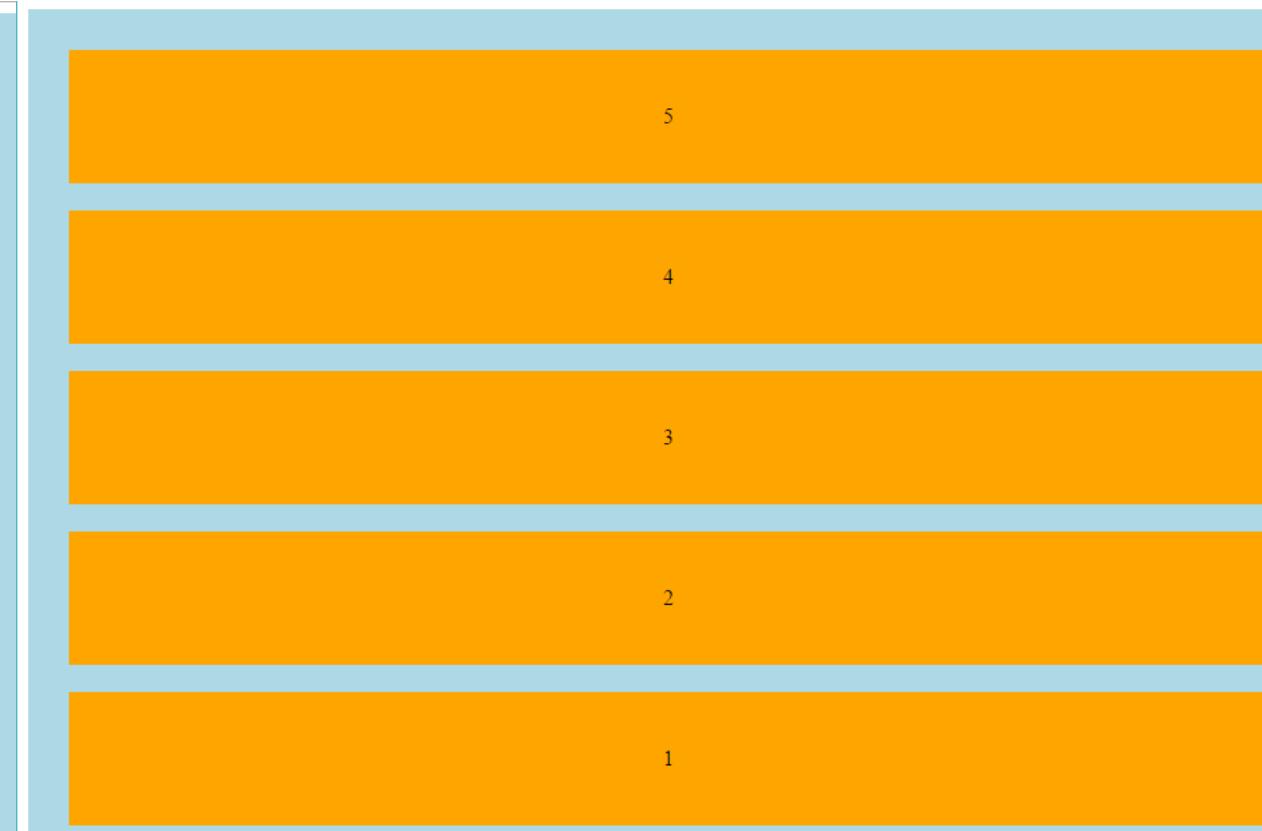
#container

`flex-direction: column;`



*flex-direction*

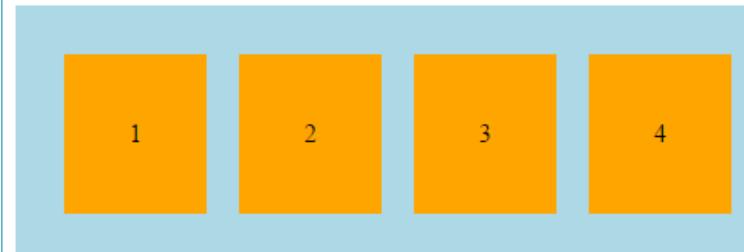
`flex-direction: column-reverse;`



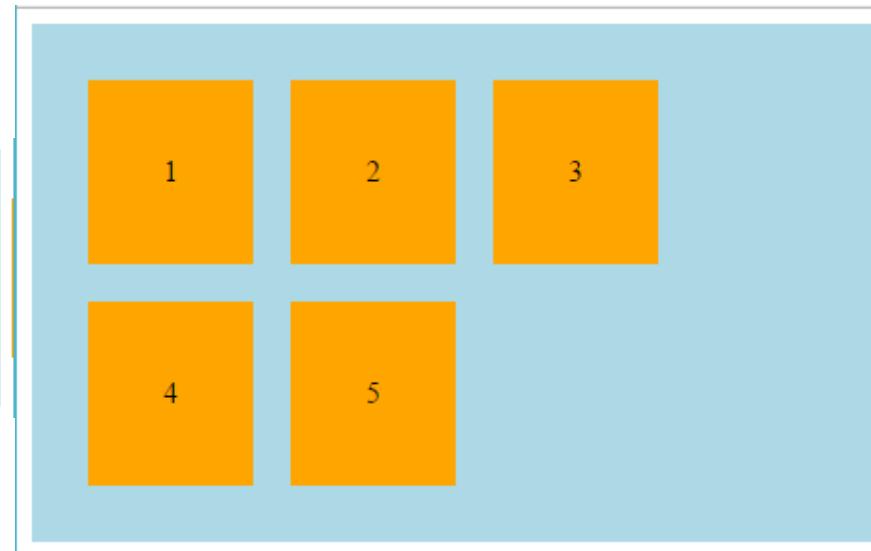
# #container

*flex-wrap*

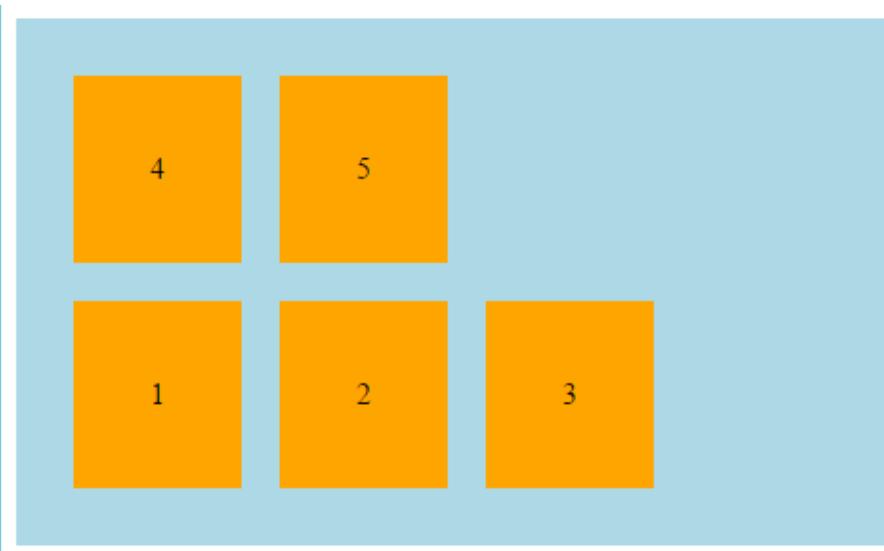
**flex-wrap: nowrap;**



**flex-wrap: nowrap;**

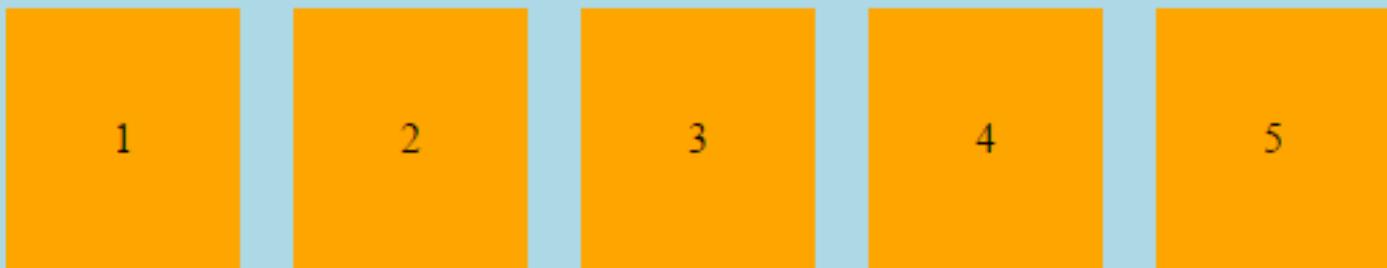


**flex-wrap: nowrap-reverse;**



# #container

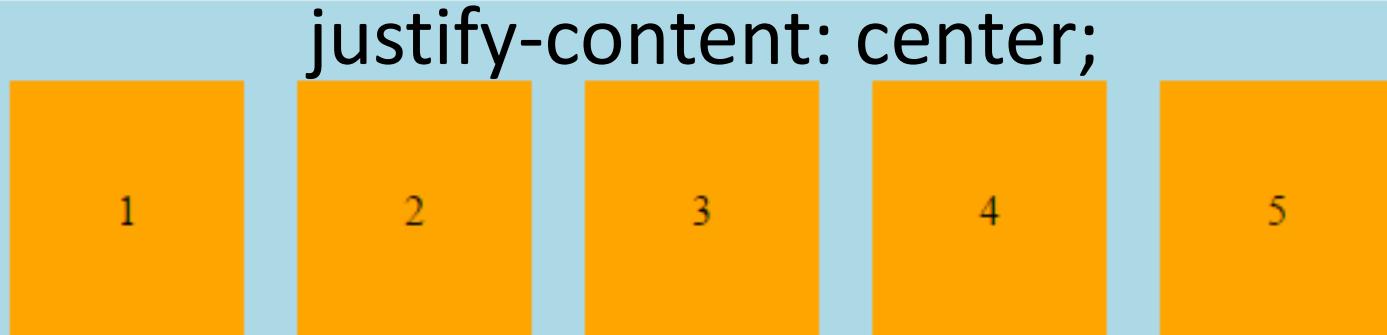
*justify-content*



`justify-content: flex-start;`



`justify-content: flex-end;`



`justify-content: center;`

#container

*justify-content*

justify-content: space-between;

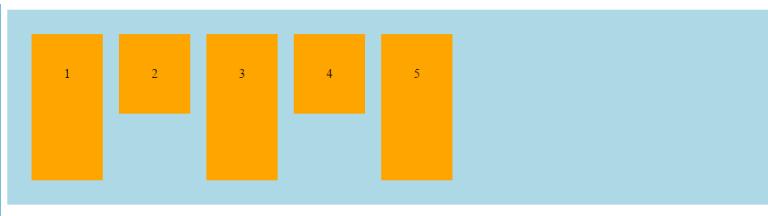


justify-content: space-around;

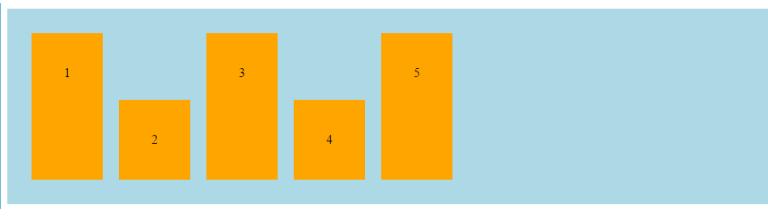


# #container

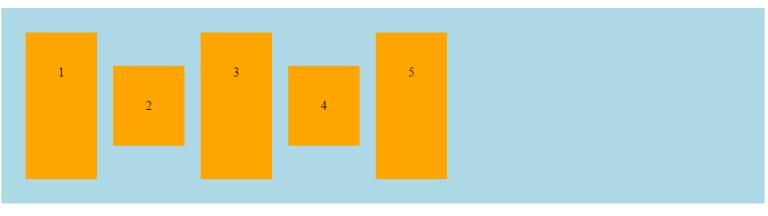
- align-items: flex-start;



- align-items: flex-end;



- align-items: flex-end;

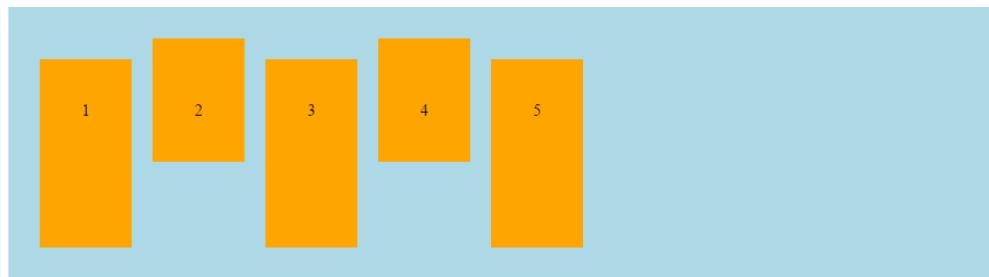


# align-items

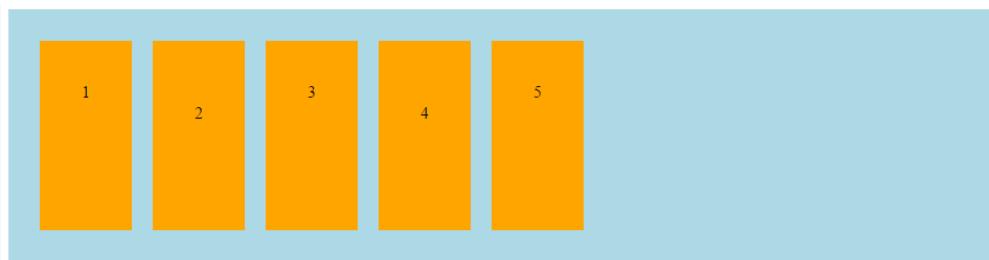
```
#container{  
    background-color: lightblue;  
    padding: 20px;  
    /* Egenskaper för flexbox */  
    display: flex;  
    align-items: flex-start;  
}  
  
.item{  
    text-align: center;  
    background-color: orange;  
    margin: 10px;  
    padding: 40px;  
}  
  
.item:nth-child(odd){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

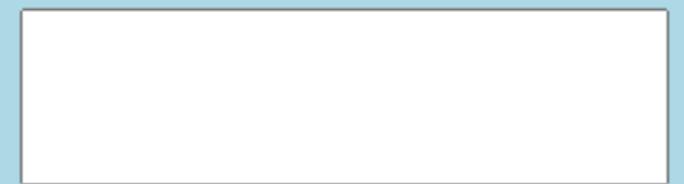
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HOME / GUIDES /

# 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



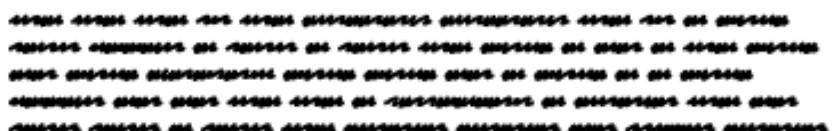
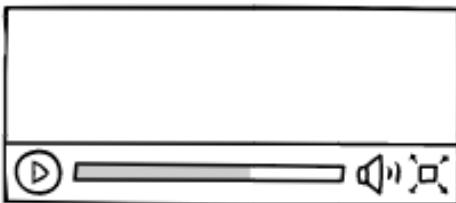
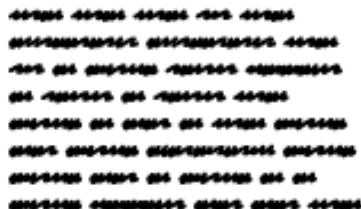
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THE CSS  
TO MY  
HTML**



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Awesome image caption



Awesome image caption



Awesome image caption

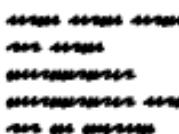


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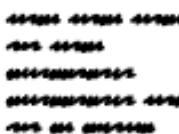


Awesome image caption

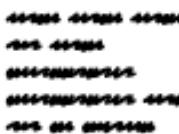
News



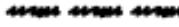
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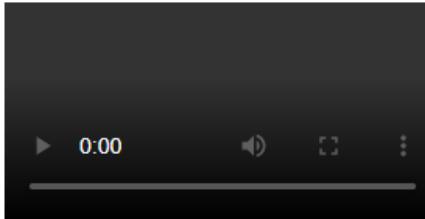
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Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Duis suscipit volutpat posuere. Sed turpis velit, placerat ullamcorper est a, ultrices convallis urna. Suspendisse eu placerat dolor, nec imperdiet quam. Nulla nec tempus tortor. Pellentesque in risus risus. Maecenas ut quam sodales orci tempor mattis.



Awesome picture!



Awesome picture!



Awesome picture!



Awesome picture!



Awesome picture!

## News

### News title

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### News title

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## Newsletter

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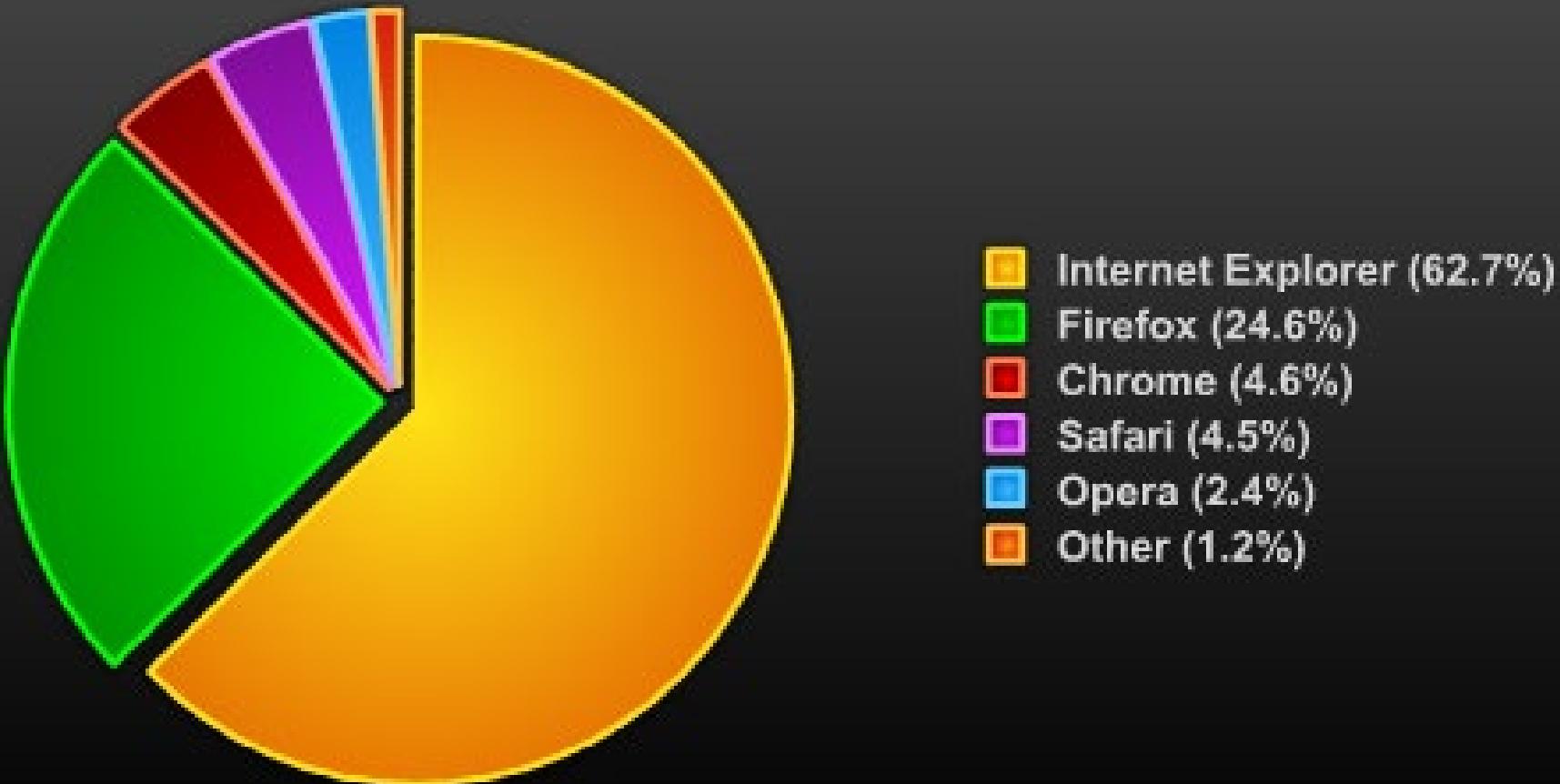


# Responsiv webbutveckling





## Web browser market share, December 2009



Data source: Net Applications

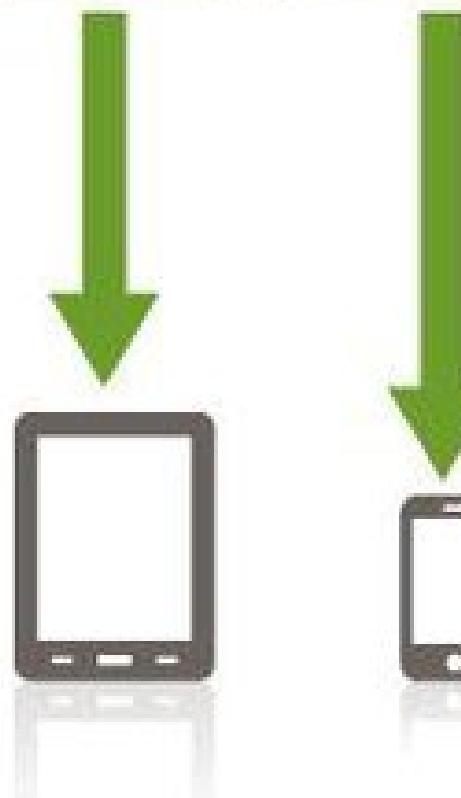
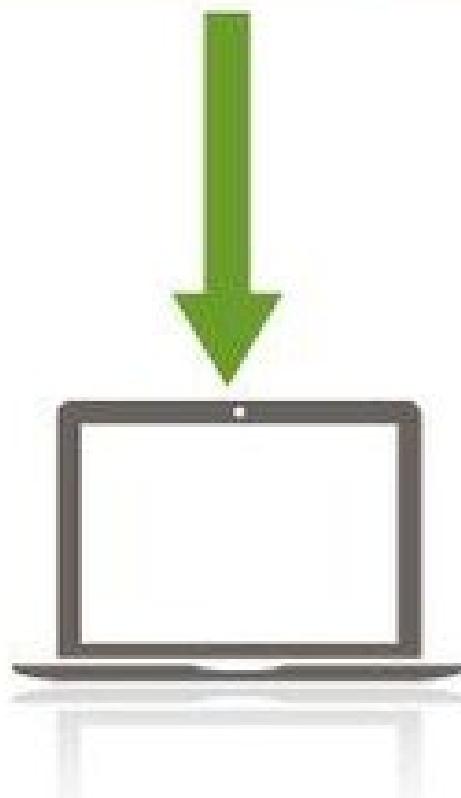
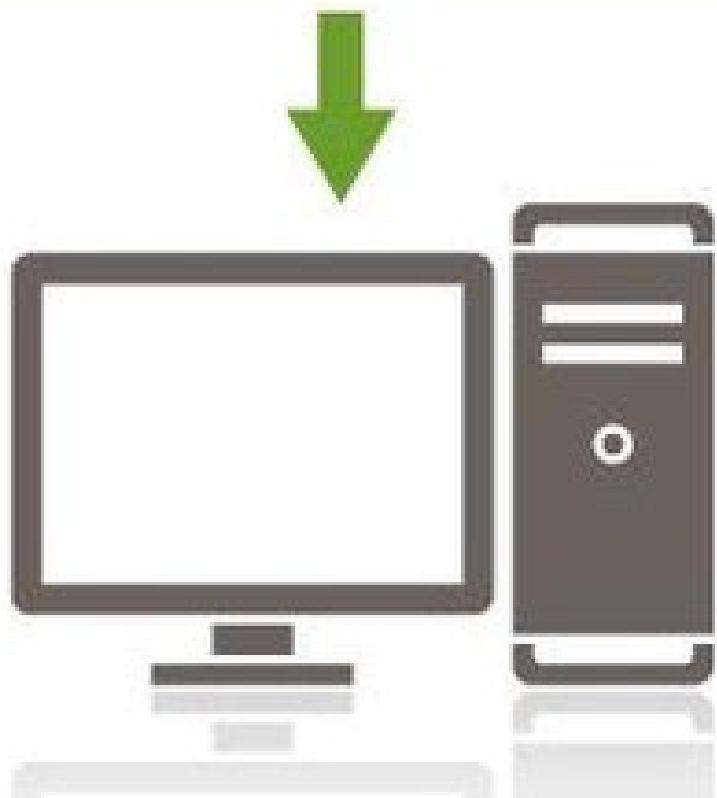
[www.pingdom.com](http://www.pingdom.com)

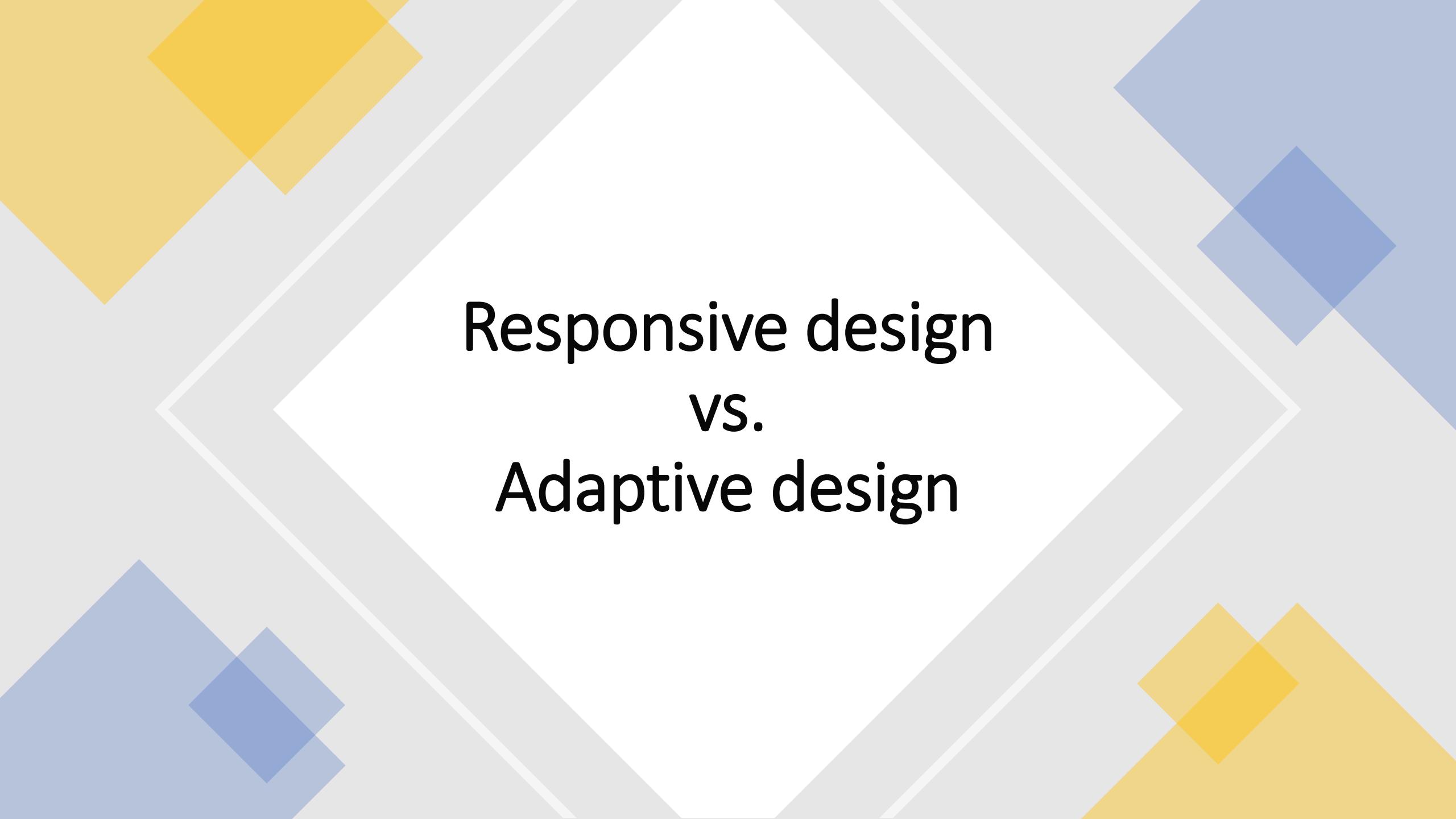


# IMAGINE A WORLD



# 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

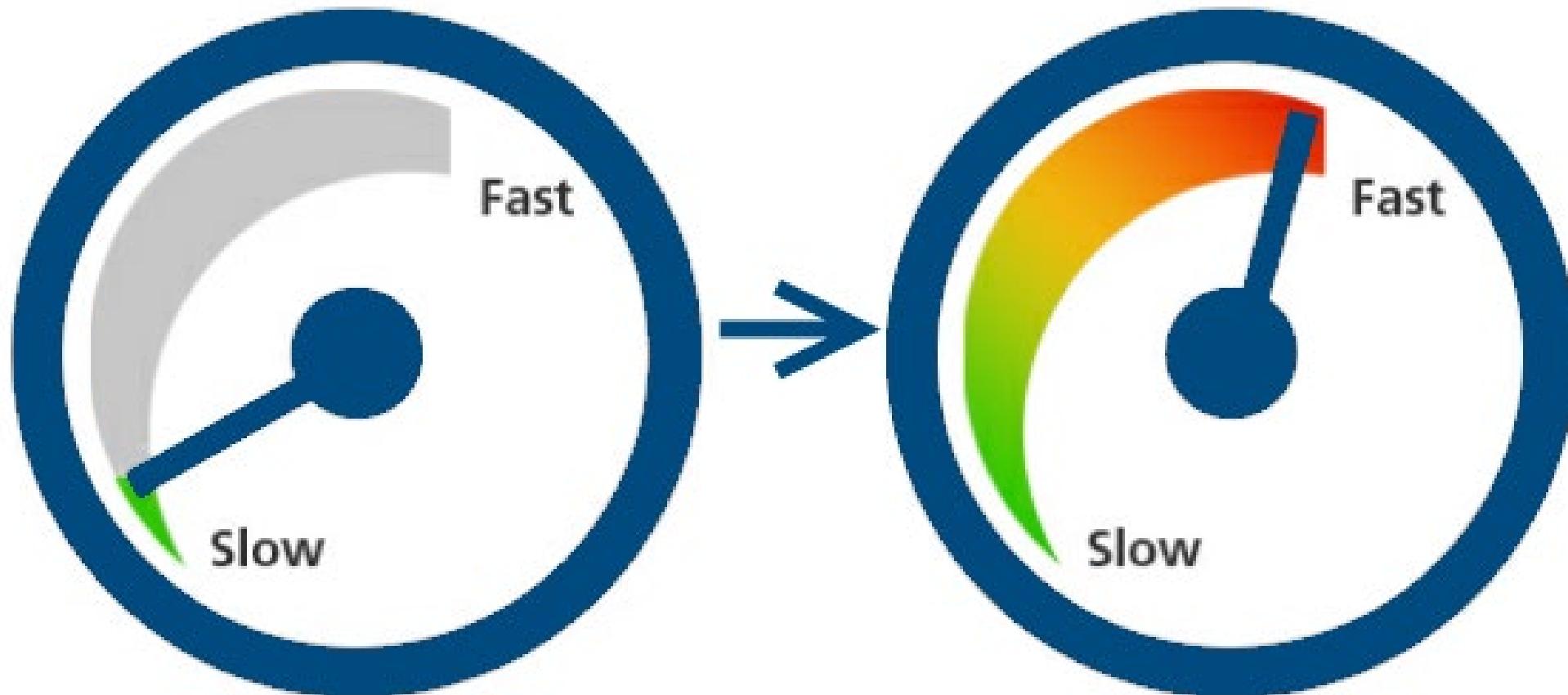


Starting April 21, 2015, Google Search will be expanding its use of mobile-friendliness as a ranking signal. This change will affect mobile searches in all languages worldwide and will have a significant impact in Google Search results. Users will find it easier to get relevant, high quality search results 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



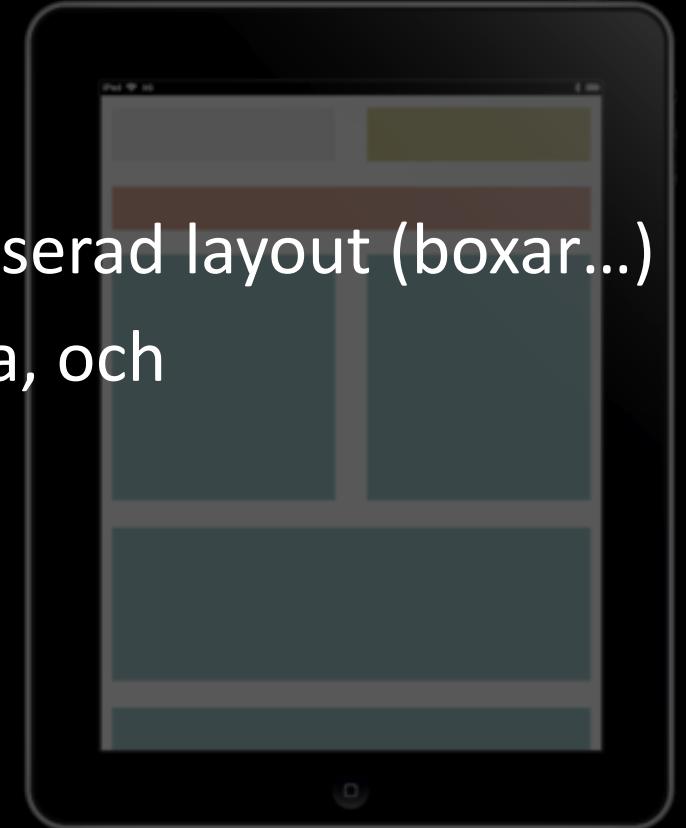
**98%** move between devices that same day



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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**Obama urges Congress to act on jobs bill**

Speaking from the Rose Garden, President Obama urged Congress to pass a bill to help families and business challenged "by the economy, or politics, or defense."

- ▶ **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.)

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**With \$600 value, Hollywood retrenches its slate**

The upcoming movie season looks like the second half of the Lettuce, when studios were making big financial and creative, often with mixed results.

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- ▶ **Full earnings range from Chapter 16 to Chumpagne**
- ▶ **2013: Commedia has turned to the big budget**
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More than one people of various religious faiths have come to the Boston Center of Jewish Education to communicate the 21st-century message.

- ▶ **Photo: A 21st-century message**
- ▶ **Process, fees, pain, and honor**



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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



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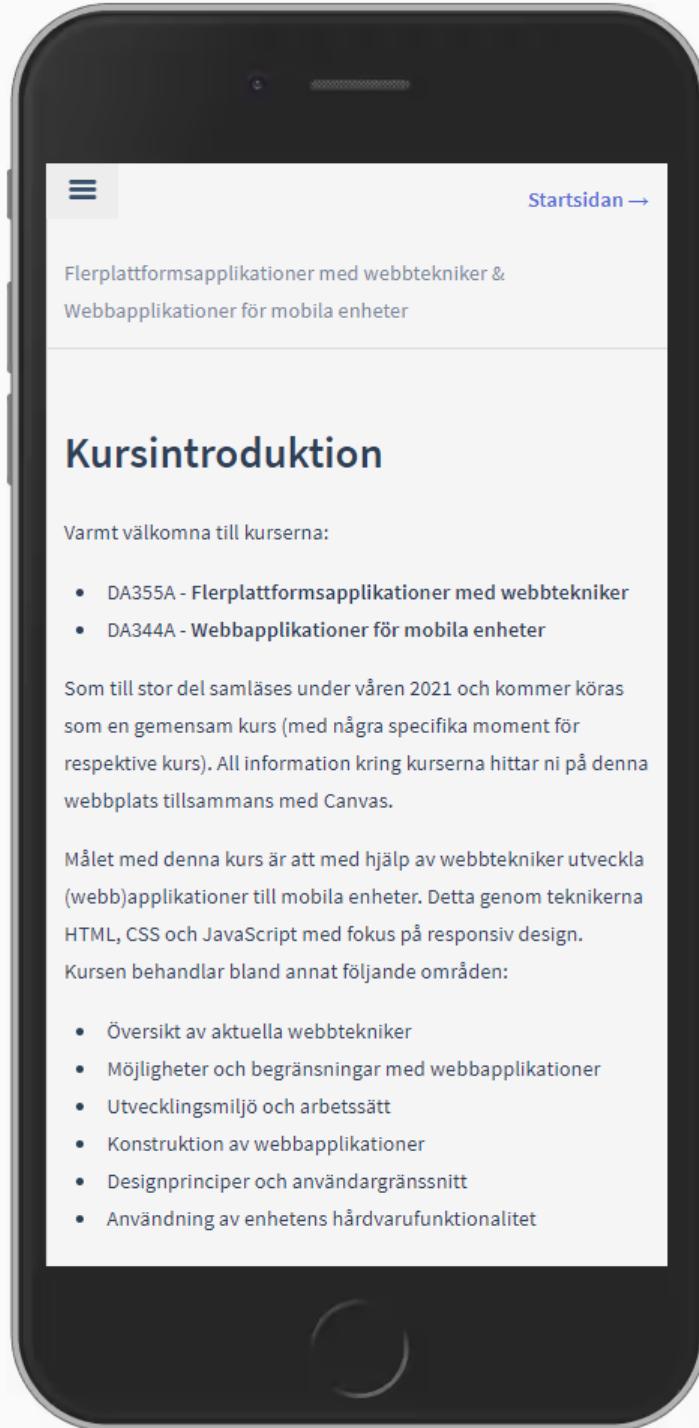
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- Användning av enhetens hårdvarufunktionalitet

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.



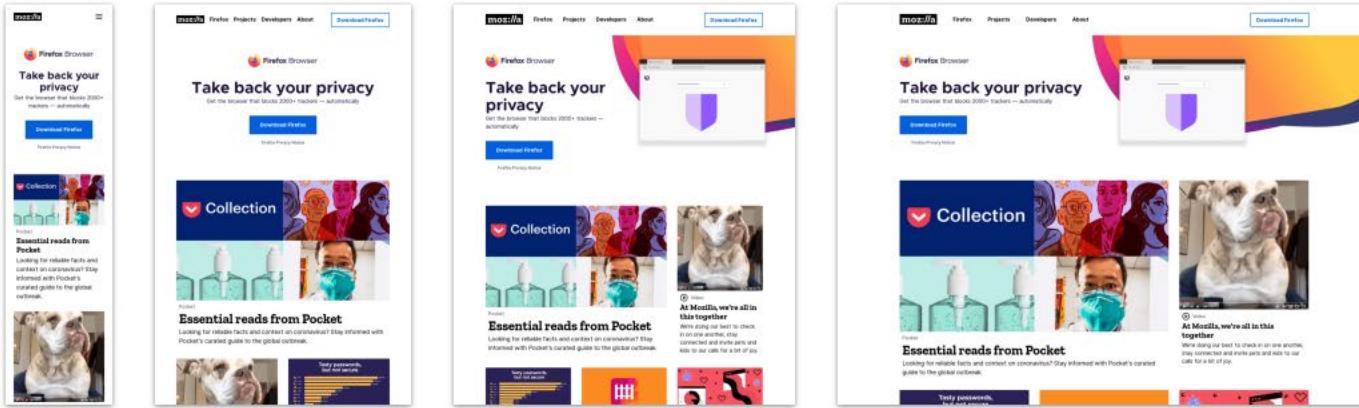
# Media Queries



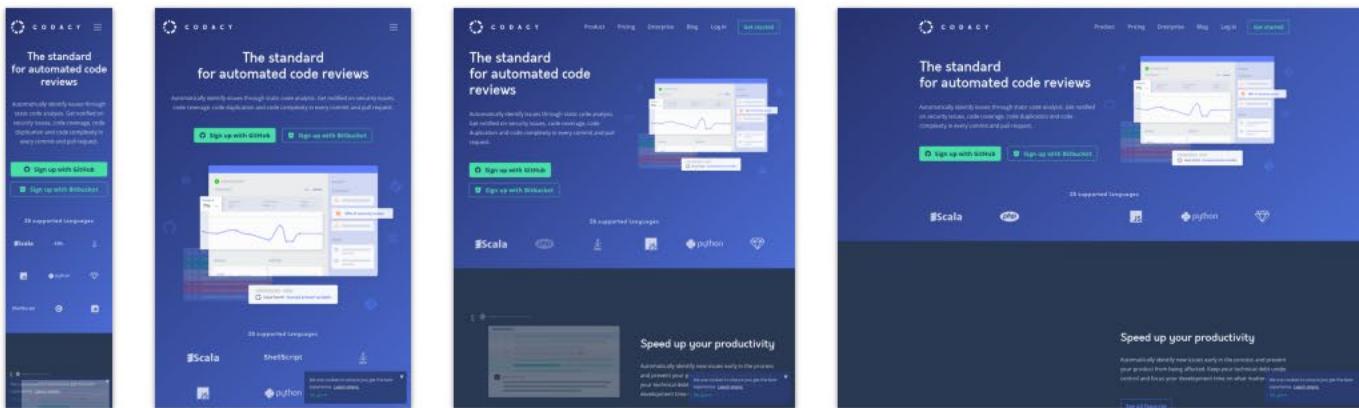
Your new development career awaits. Check out the latest listings.

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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Anne van Kesteren <annevk@opera.com>

Please refer to the [errata](#) for this document, which may include some normative corrections.

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 */  
}
```



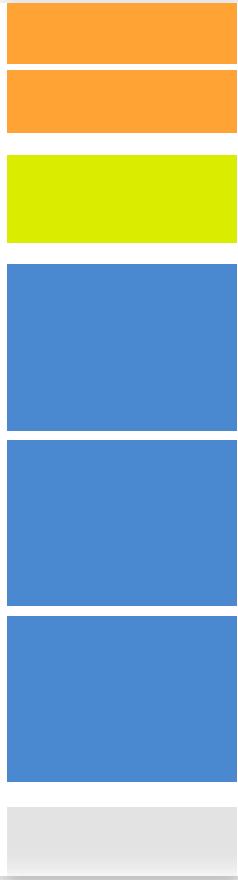
---

# Demo Print & Screen

---



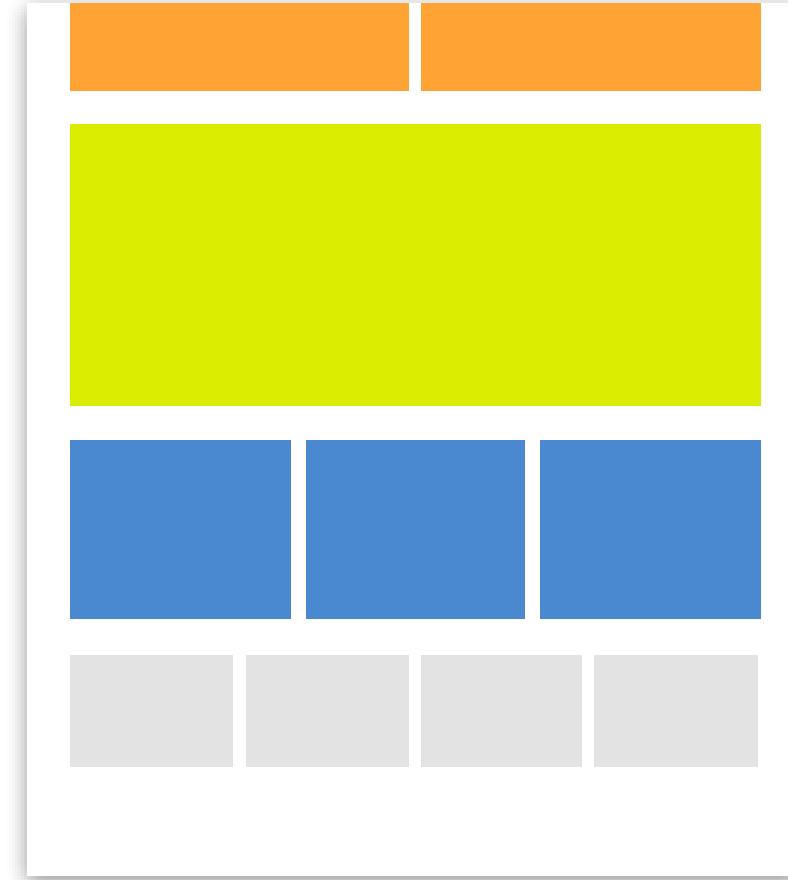
320px



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	<a href="#">Try it</a>
mm	millimeters	<a href="#">Try it</a>
in	inches (1in = 96px = 2.54cm)	<a href="#">Try it</a>
px *	pixels (1px = 1/96th of 1in)	<a href="#">Try it</a>
pt	points (1pt = 1/72 of 1in)	<a href="#">Try it</a>
pc	picas (1pc = 12 pt)	<a href="#">Try it</a>

# 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)	<a href="#">Try it</a>
ex	Relative to the x-height of the current font (rarely used)	<a href="#">Try it</a>
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*	<a href="#">Try it</a>
vh	Relative to 1% of the height of the viewport*	<a href="#">Try it</a>
vmin	Relative to 1% of viewport's* smaller dimension	<a href="#">Try it</a>
vmax	Relative to 1% of viewport's* larger dimension	<a href="#">Try it</a>
%		



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 (Older 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 thumbnail image.
- 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):**

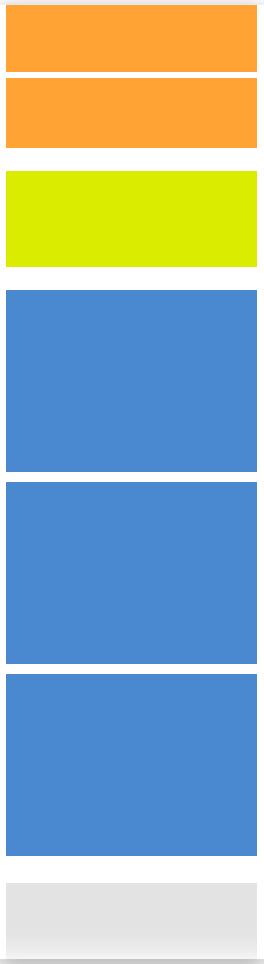
- Header:** Microsoft logo, search bar, and navigation menu (Products, Downloads, Security, Support, Buy).
- Hero Section:** A large "Surface" advertisement with the tagline "Click in and do more".
- Discover Section:** A grid of links for Windows, Office, Windows Phone, IIS, Skype, and Microsoft Store.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

**Right Screenshot (Latest 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 thumbnail image.
- 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.



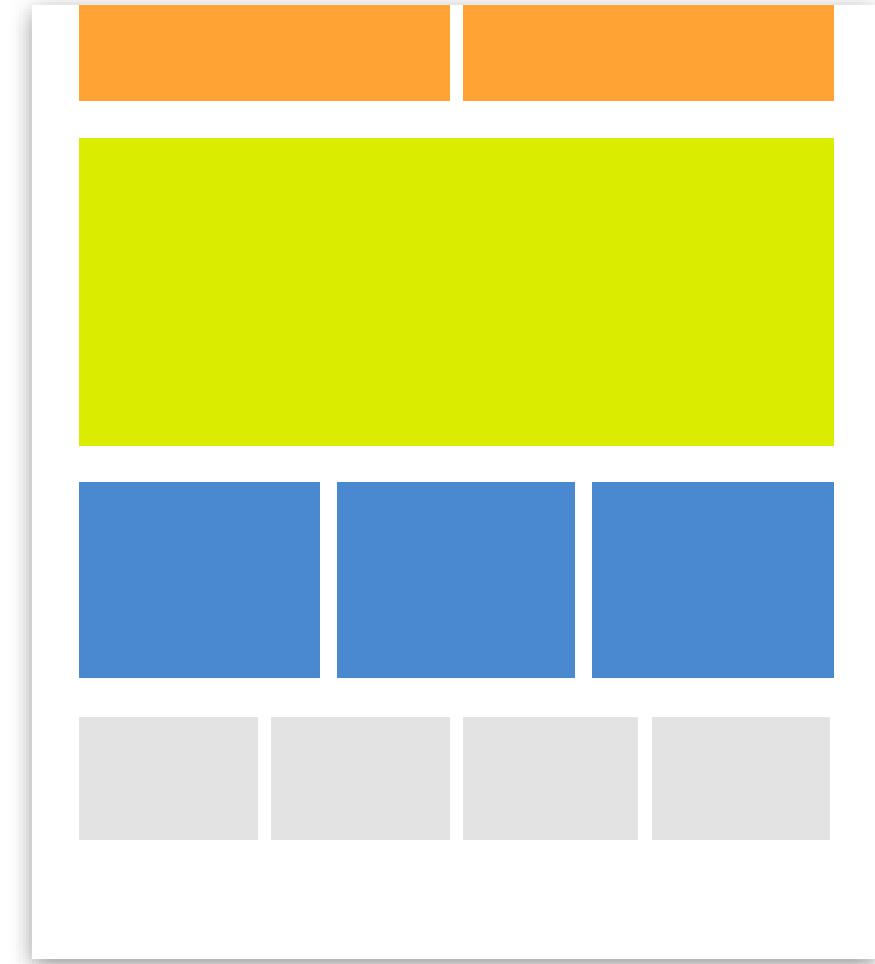
320px



768px



1024px





*Brief books for people who make websites*

NO.

6

Luke Wroblewski

# MOBILE FIRST

FOREWORD BY Jeffrey Zeldman



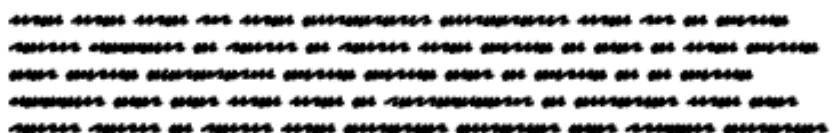
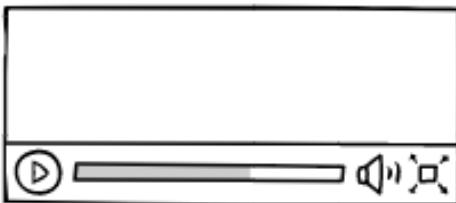
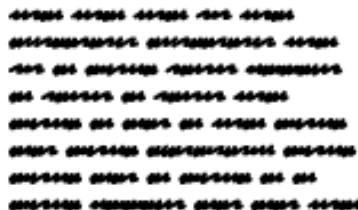
*"Start with the small screen first, then expand until it looks like \*crap\*. Time to insert a breakpoint!"*



# My awesome website!

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

Welcome!



Awesome image caption



Awesome image caption



Awesome image caption



Awesome image caption



Awesome image caption

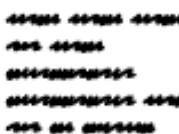


Awesome image caption

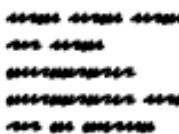
News



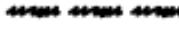
News title



News title



News title



Newsletter

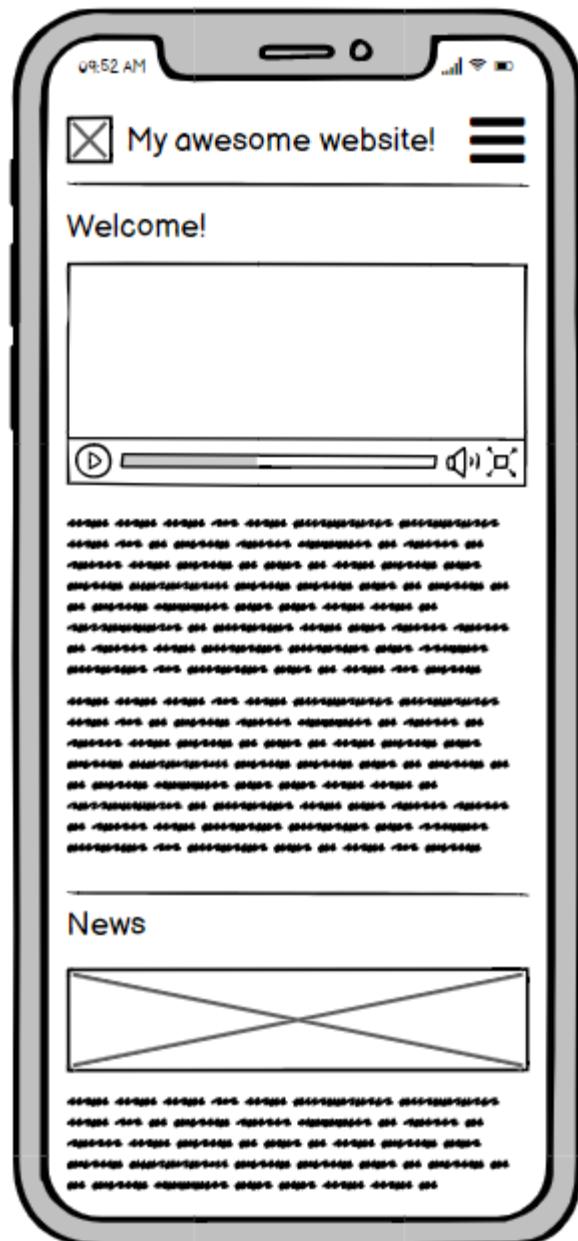
Email:

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 navigation icons, a title "My awesome website!", and a "Start | Courses | Links | Contact" menu. The "Welcome!" section contains two video placeholders. The "News" section has three news items, each with a title and a large placeholder box. To the right, there's a "Newsletter" sidebar with fields for email, an "I agree!" checkbox, and a "Subscribe" button. A "Visit us here!" section features 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 video player, and a news section. Placeholder text and media elements are marked with a large 'X' to indicate they are not yet implemented.



Dags för demo!

# Visa korrekt layout på mobiler

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

CSS  
IS  
AWESOME

