

Responsiv webbdesign

Genom *media queries*





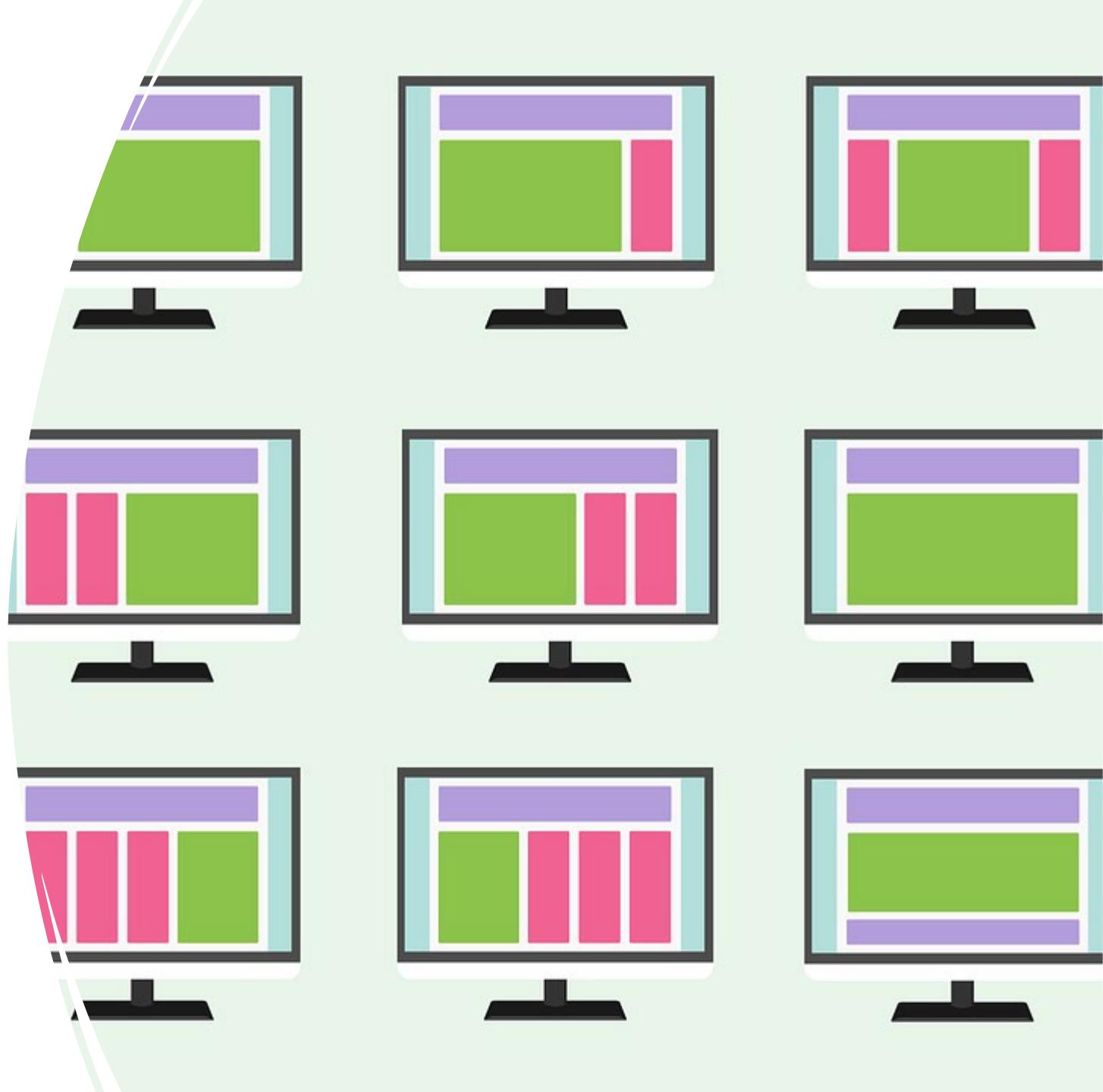
Dagens agenda

- Repetition: layout
- Vad är responsiv design?
- Media queries
- Att designa för olika enheter



CSS
IS
AWESOME

Layout

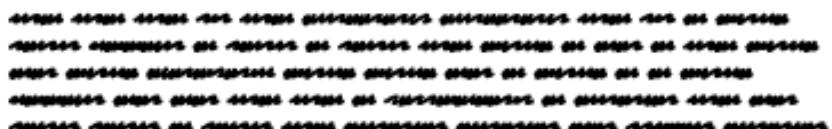
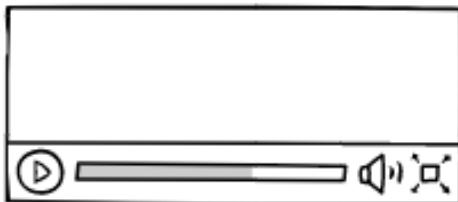
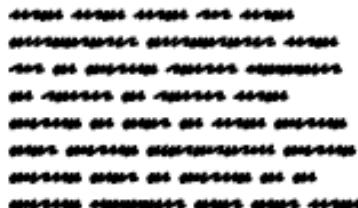




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Welcome!



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Awesome image caption



Awesome image caption



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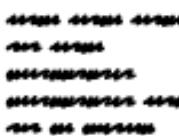


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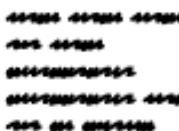


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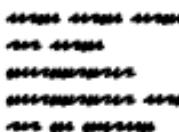
News



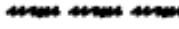
News title



News title



News title



Newsletter

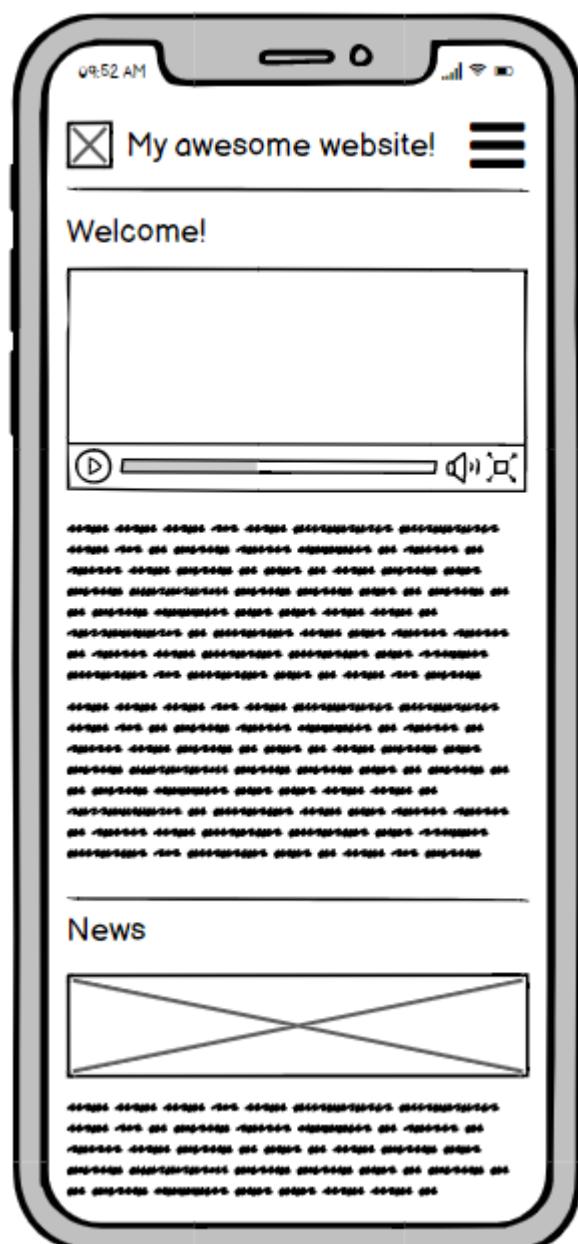
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A Web Page
https://example.com

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Welcome!

News

News title

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Newsletter

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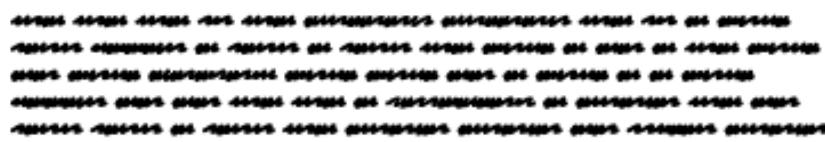
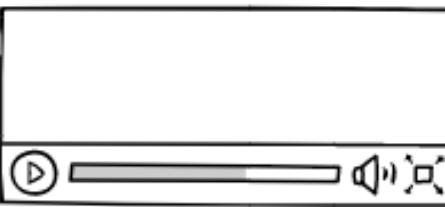
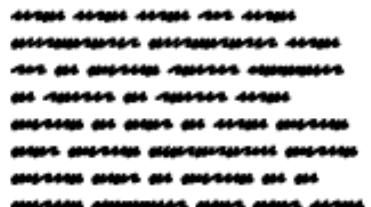
The main web page has a header with a navigation bar and a search bar. The main content area includes a "Welcome!" section, a "News" section with three news items, and a "Newsletter" sidebar. The "News" section features a large video player placeholder and several image placeholders with captions like "Awesome image caption". The "Newsletter" sidebar includes fields for email, a checkbox for agreeing to terms, and a "Subscribe" button. A "Visit us here!" section shows a map with a green shaded area and a yellow border.



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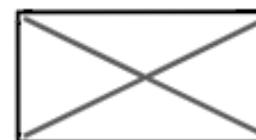
Welcome!



Awesome image caption



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Awesome image caption



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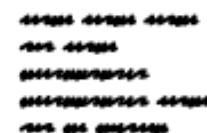


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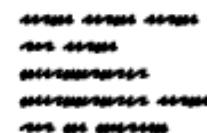


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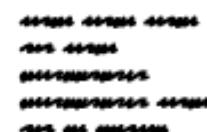
News



News title



News title



News title



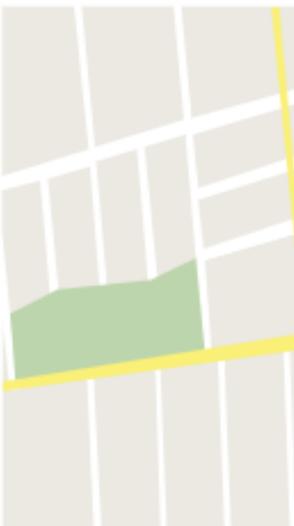
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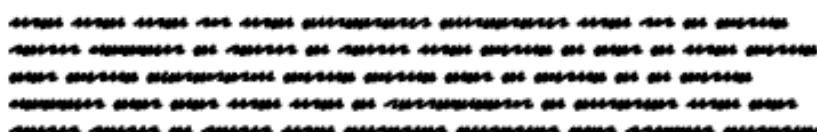
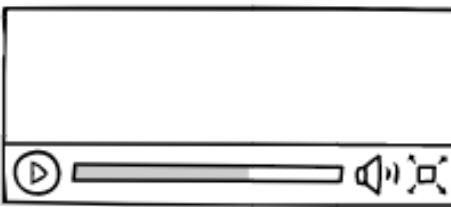
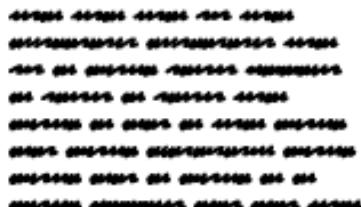




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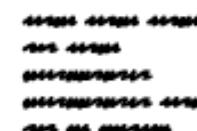


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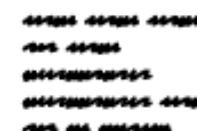


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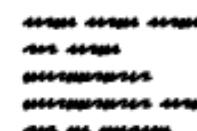
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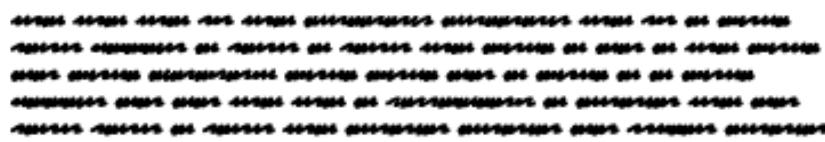
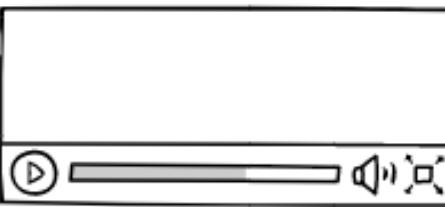
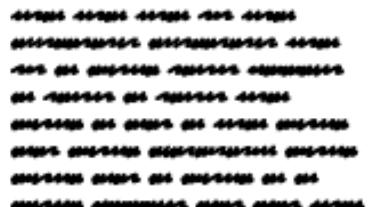




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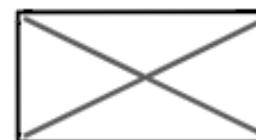
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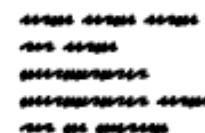


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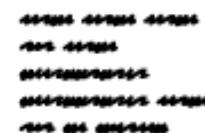


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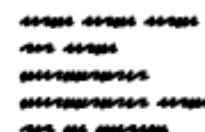
News



News title



News title



News title



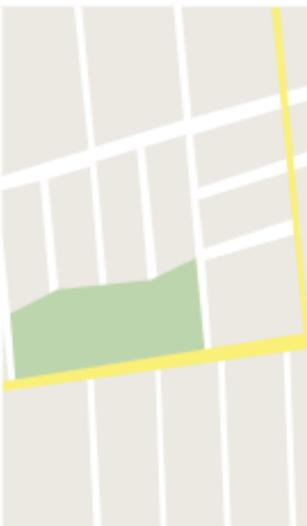
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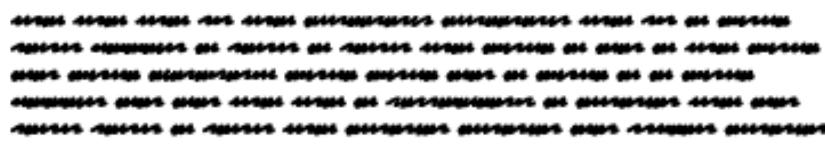
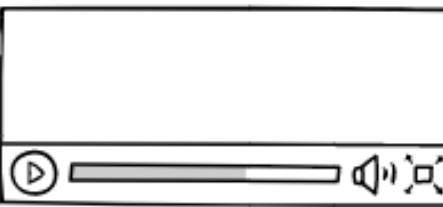
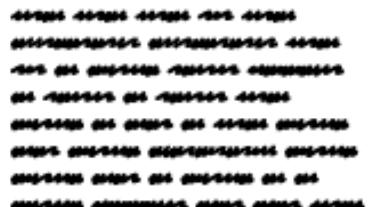




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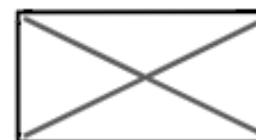
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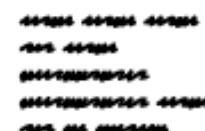


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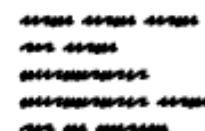


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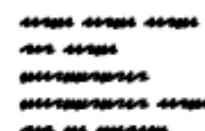
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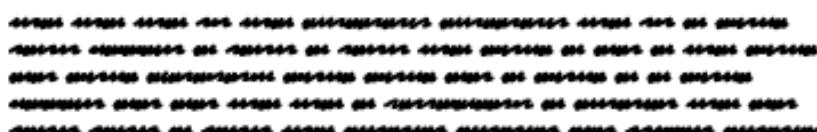
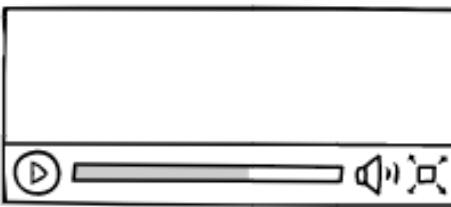
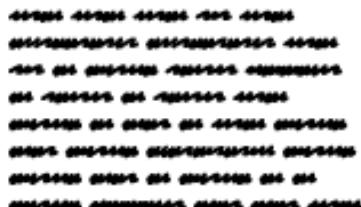




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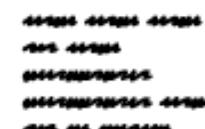


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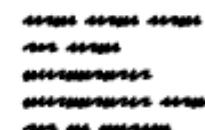


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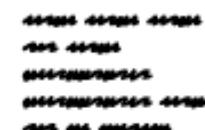
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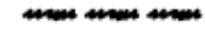
News title



News title



News title



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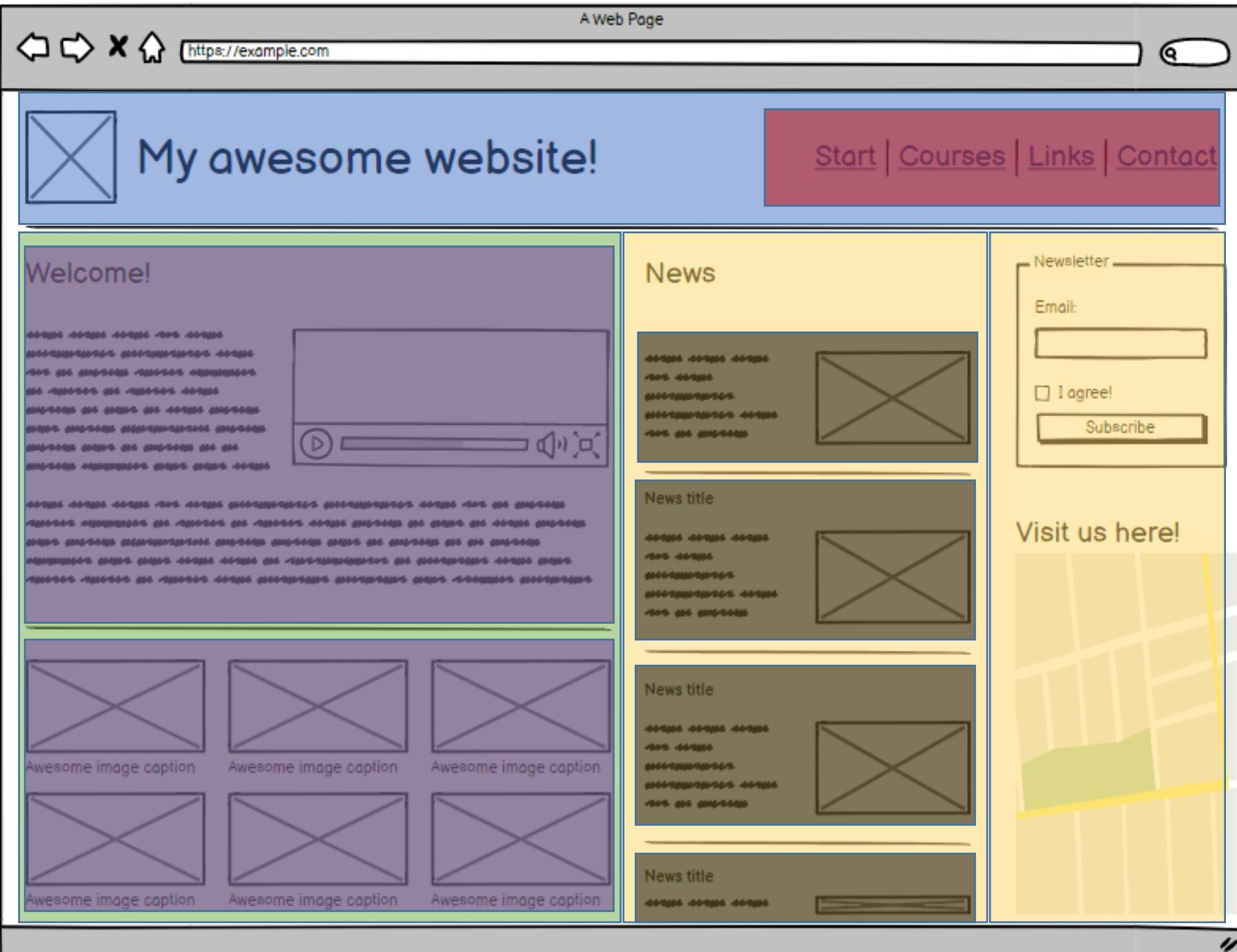
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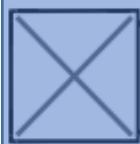
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CSS - Grid

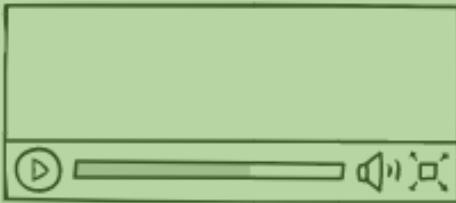
Designa webbsidor enligt ett rutnät (rader & kolumner)



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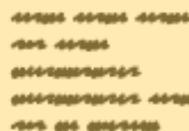


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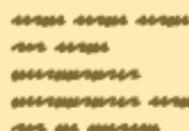
News



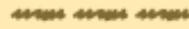
News title



News title



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Newsletter

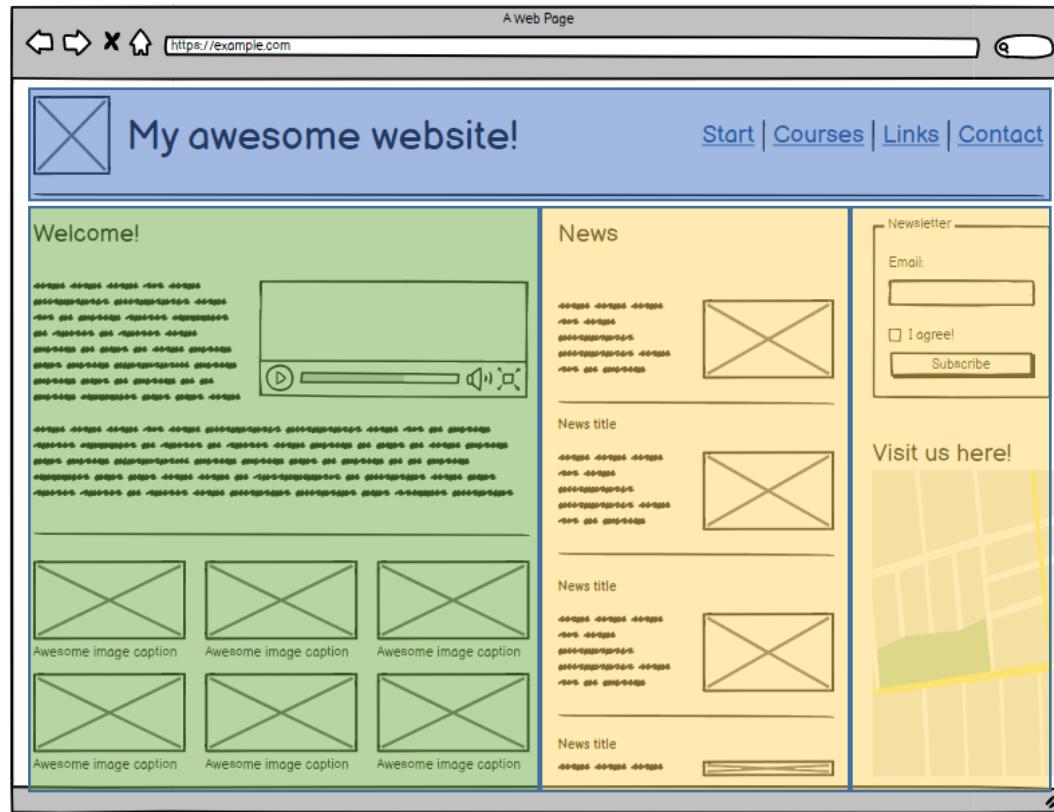
Email:

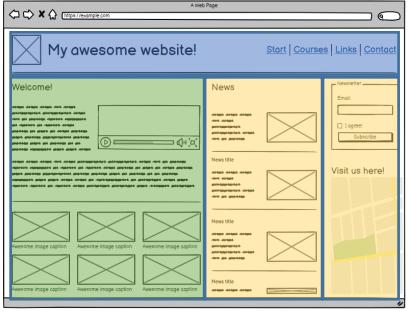
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Nyheter

Övrigt

CSS - Flexbox

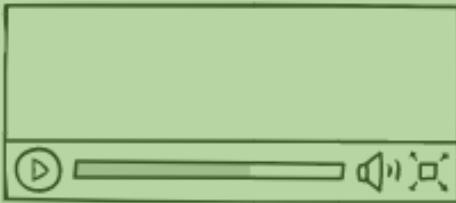
Placera en samling element enligt givna regler



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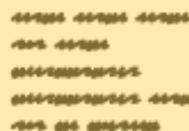


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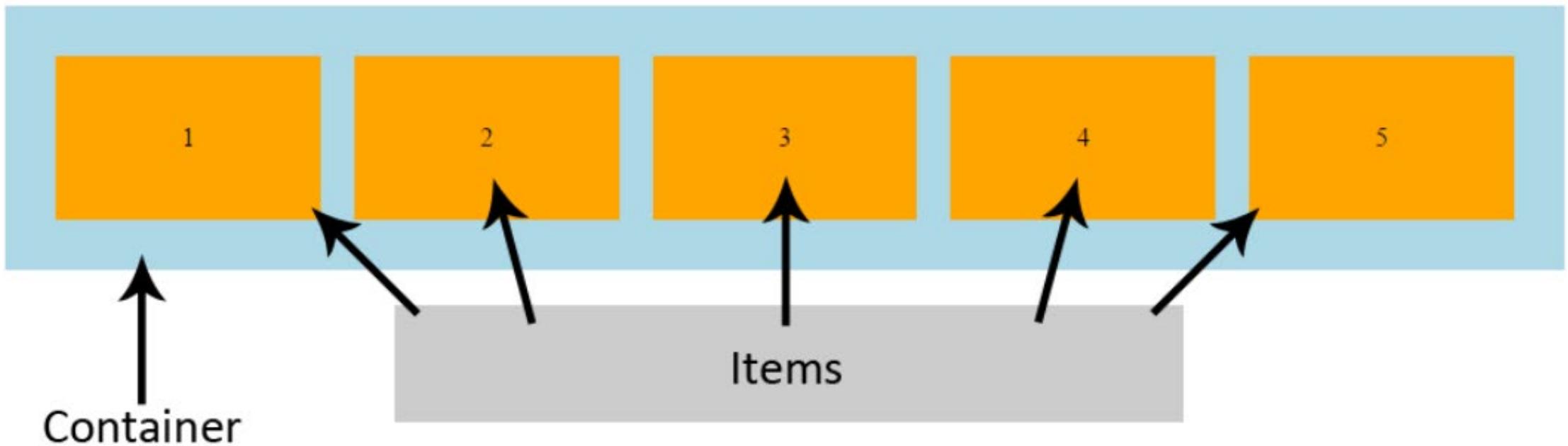
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Vad är flexbox?

- 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.



Exempel på
användning av flexbox

Länk

Länk

Länk

Länk



Log in

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Enter password here...

Logga in





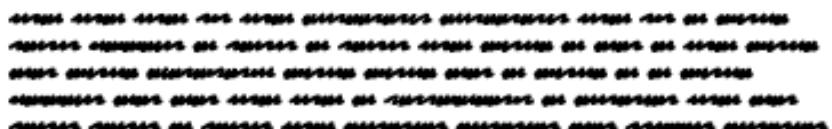
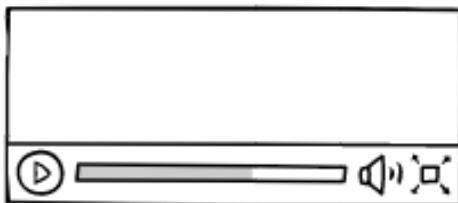
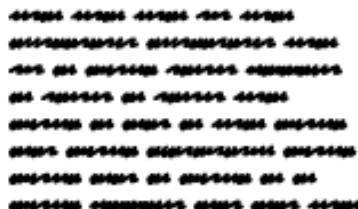
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THE CSS
TO MY
HTML**



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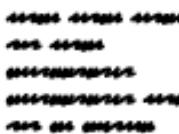


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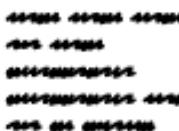


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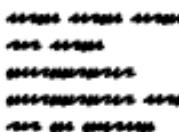
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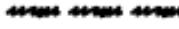
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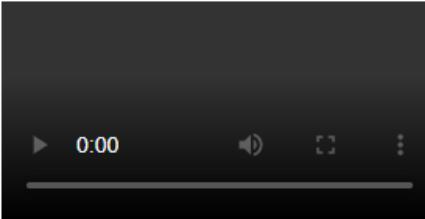
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Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Duis suscipit volutpat posuere. Sed turpis velit, placerat ullamcorper est a, ultrices convallis urna. Suspendisse eu placerat dolor, nec imperdiet quam.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



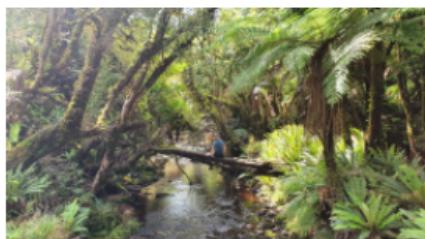
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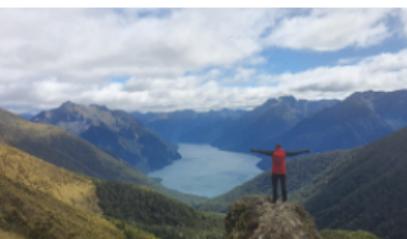
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Awesome picture!



Awesome picture!

News

News title

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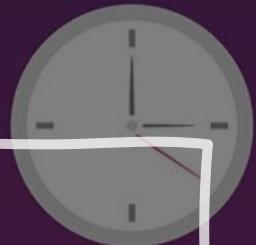
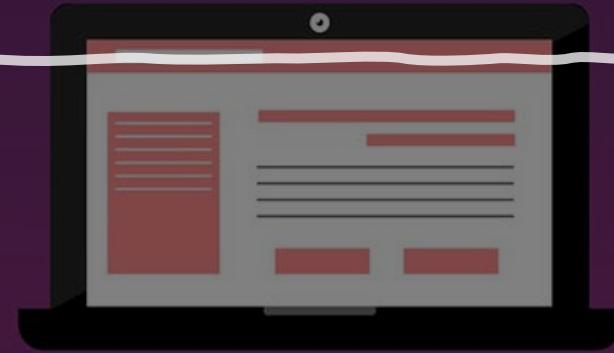
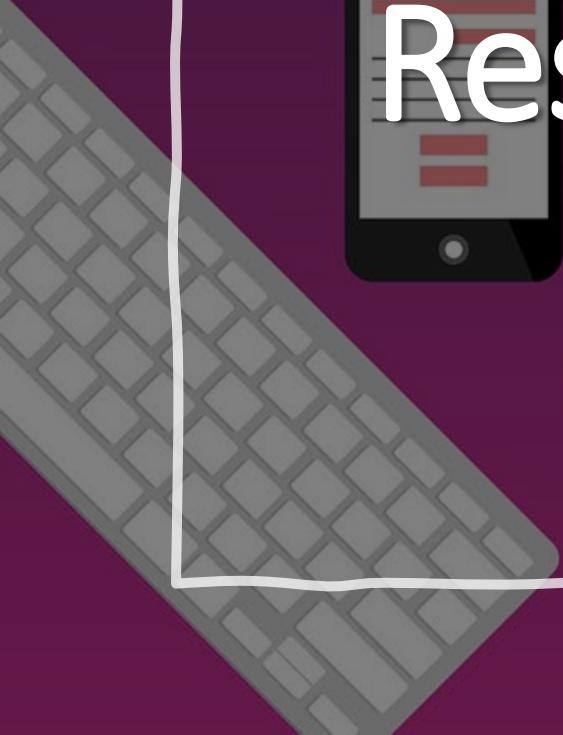
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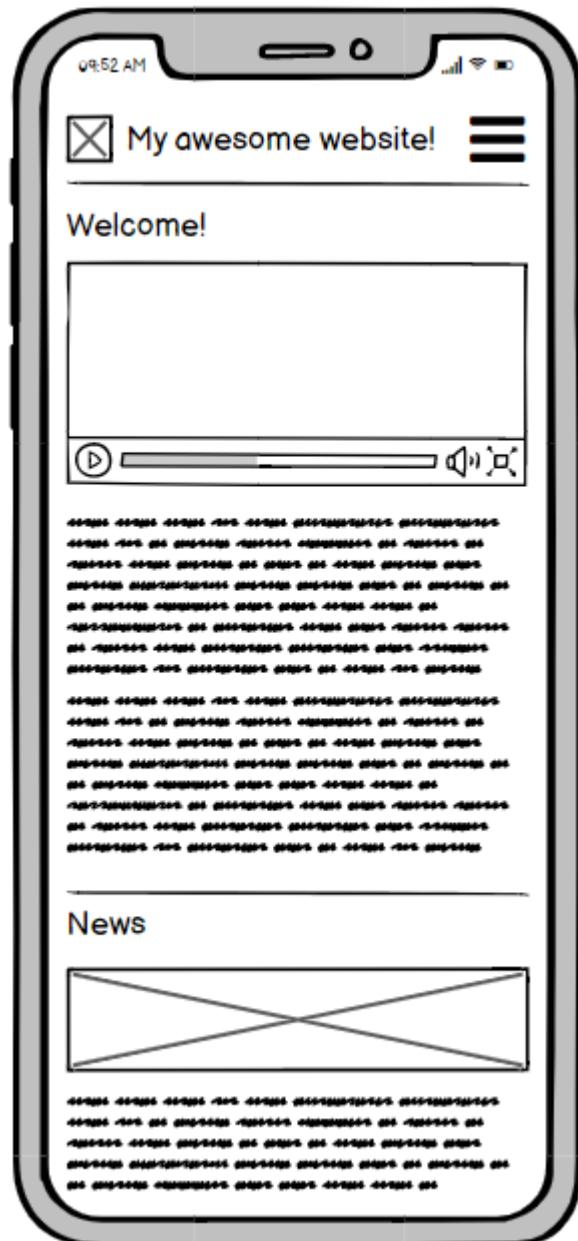
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https://example.com

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The wireframe for a desktop web page titled "My awesome website!". The page includes a header with a logo (crossed-out square), the site name, and navigation links ("Start", "Courses", "Links", "Contact"). The main content features a "Welcome!" section with a video player placeholder and a "News" section with three news items, each with a title and a large crossed-out image placeholder. To the right is a sidebar for a newsletter sign-up, and at the bottom right is a map placeholder with a green and yellow highlighted area.



Vilken enhet använder ni när ni surfar på webben?



IMAGINE A WORLD

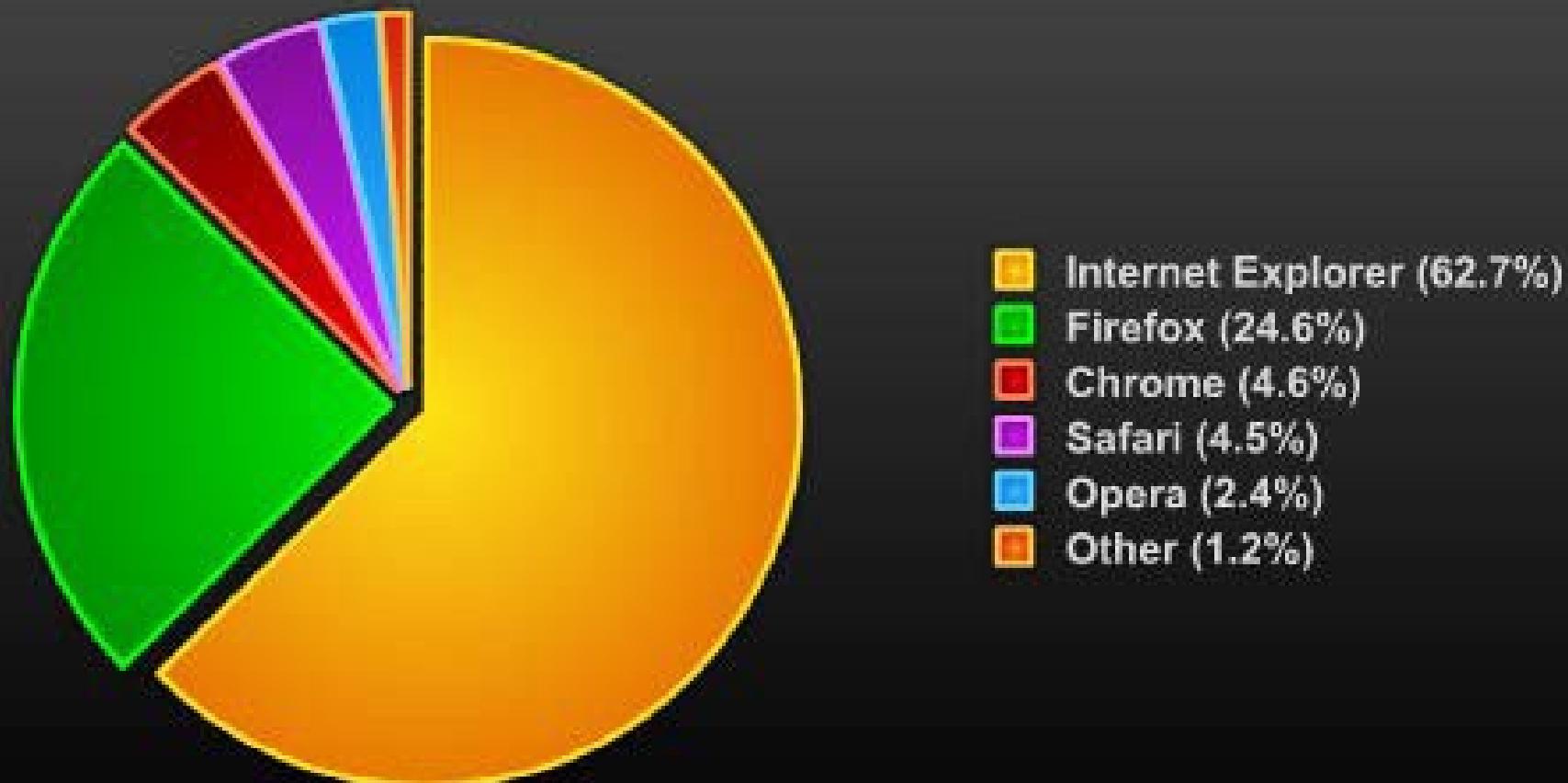


WHERE ALL SITES ARE RESPONSIVE



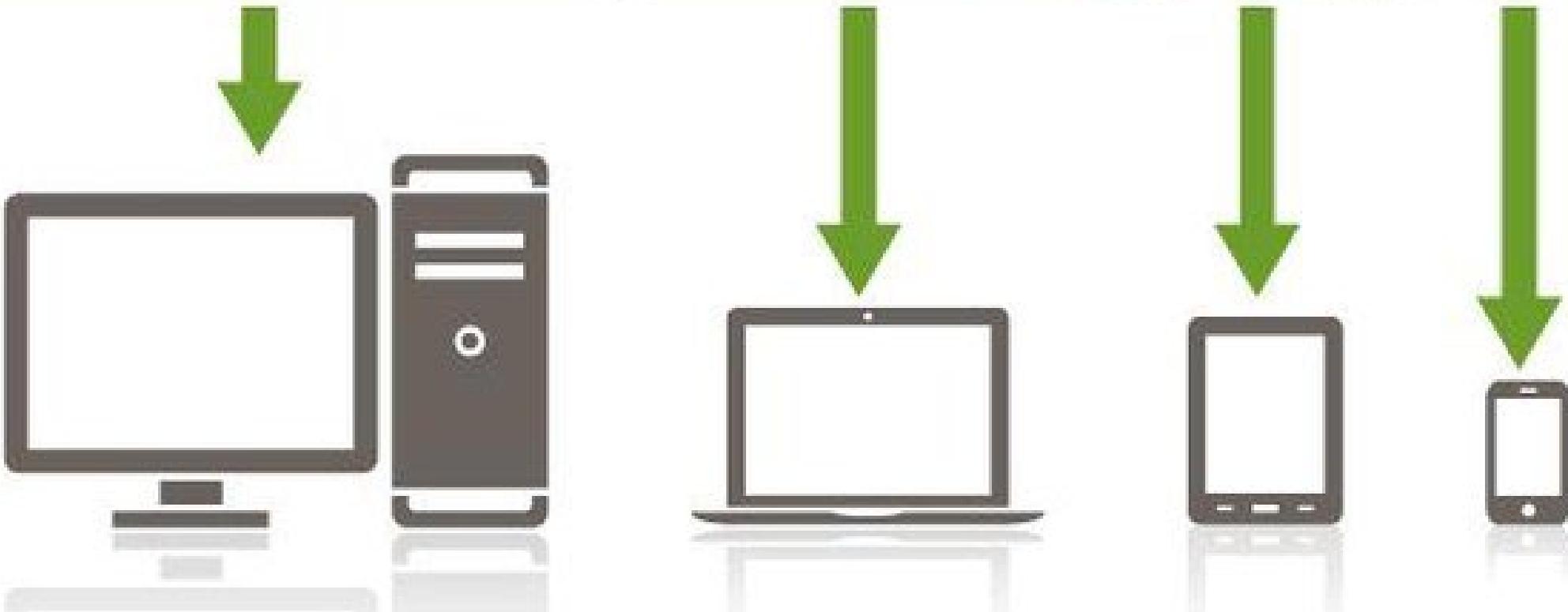


Web browser market share, December 2009



Data source: Net Applications

www.pingdom.com



Tillbaka till 2009...

- *Webbplatser hade fasta bredder, så var det.*
- Vad hände sedan?
 - Våra skärmar blev större och större
 - Användare med mobiltelefoner började alltmer besöka våra webbplatser
- Resan från **960px** breda webbplatser, till **responsiva**

Reponsiv webbdesign?

A screenshot of a web browser displaying the A List Apart website. The URL in the address bar is alistapart.com/article/responsive-web-design. The page features a large, bold title "A LIST APART". Below the title is a black and white illustration of a soccer team standing in a line, with one player lying on the ground. To the right, a coach stands holding a megaphone. A red circular badge in the bottom left corner reads "Issue No 306". The main article title is "Responsive Web Design" by Ethan Marcotte, published on May 25, 2010. The text below the article starts with the quote: "The control which designers know in the print medium, and often desire in the".

alistapart.com/article/responsive-web-design

ARTICLES COLUMNS BLOG EVENTS TOPICS WRITE FOR US

A LIST APART

Issue No
306

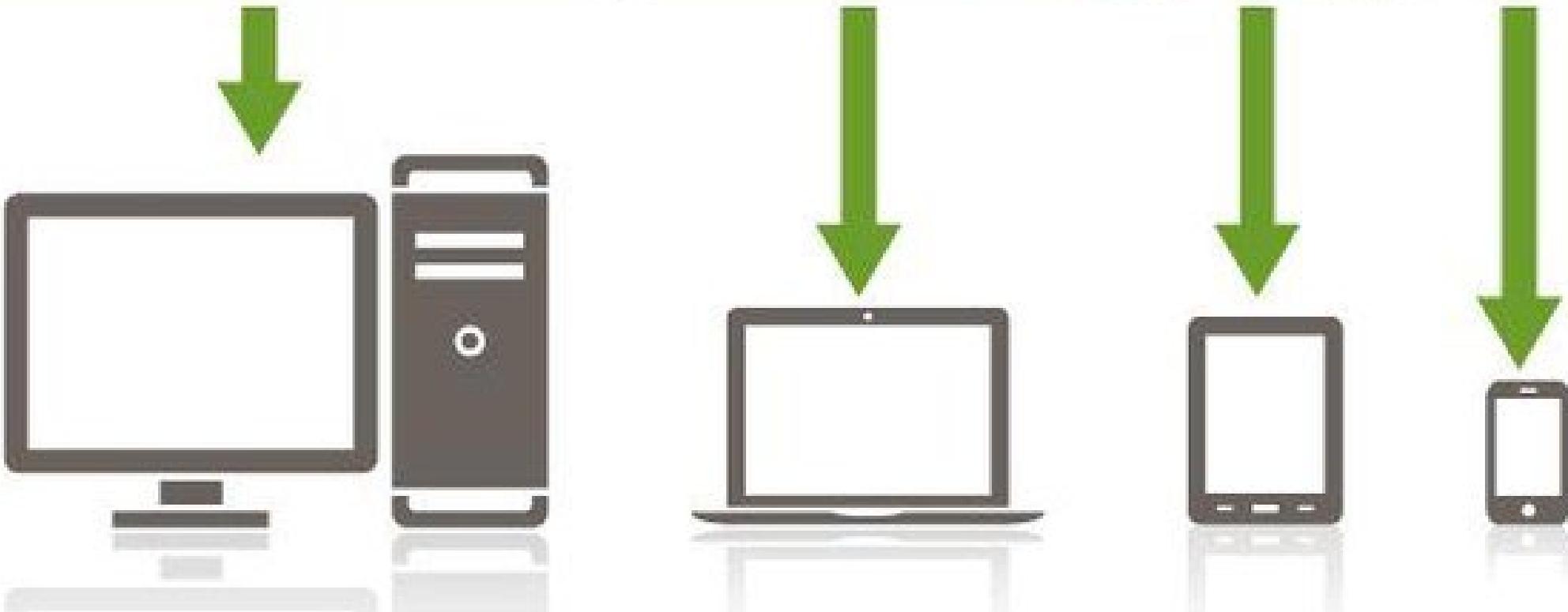
Responsive Web Design

by Ethan Marcotte · May 25, 2010

Published in CSS, Layout & Grids, Mobile/Multidevice, Responsive Design, Interaction Design

"The control which designers know in the print medium, and often desire in the

<http://alistapart.com/article/responsive-web-design>



Responsive design
vs.
Adaptive design

Responsive v.s adaptive design



<https://css-tricks.com/the-difference-between-responsive-and-adaptive-design/>

Mer bra läsning: <https://www.fastcodesign.com/3038367/9-gifs-that-explain-responsive-design-brilliantly>

FULLY
responsive
webdesign.



Varför är det så viktigt att fokusera på responsiv design?

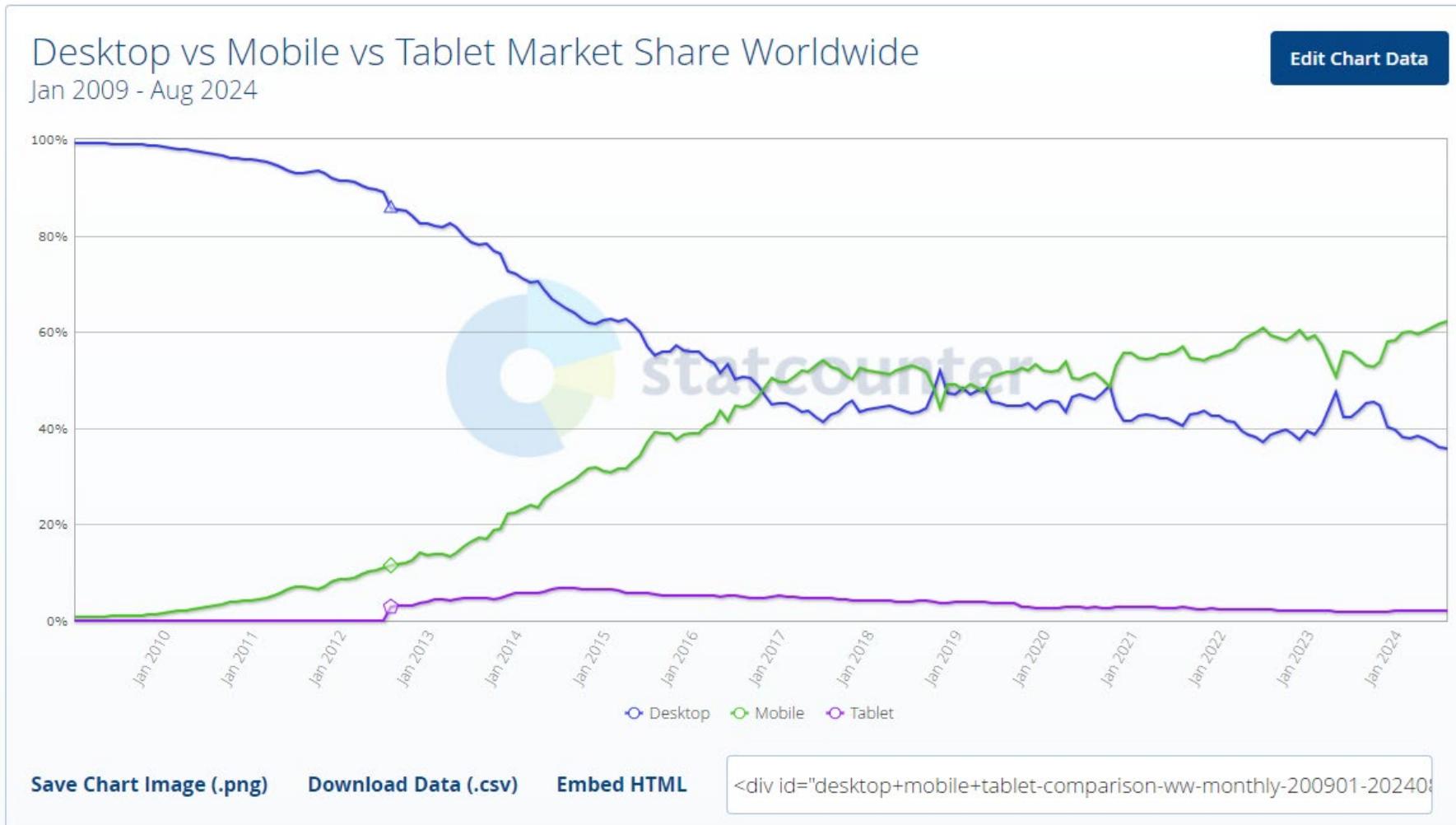
1. Allt fler surfar med mobiler/surfplattor



2. Ger oss möjlighet anpassa innehållet efter
det medium som användaren använder



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



4. 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.

5. Snabbar upp webbsidorna



6. Vi använder mer och mer olika enheter, för att utföra, eller fortsätta utföra en uppgift

Sequential screening is common & mostly completed within a day

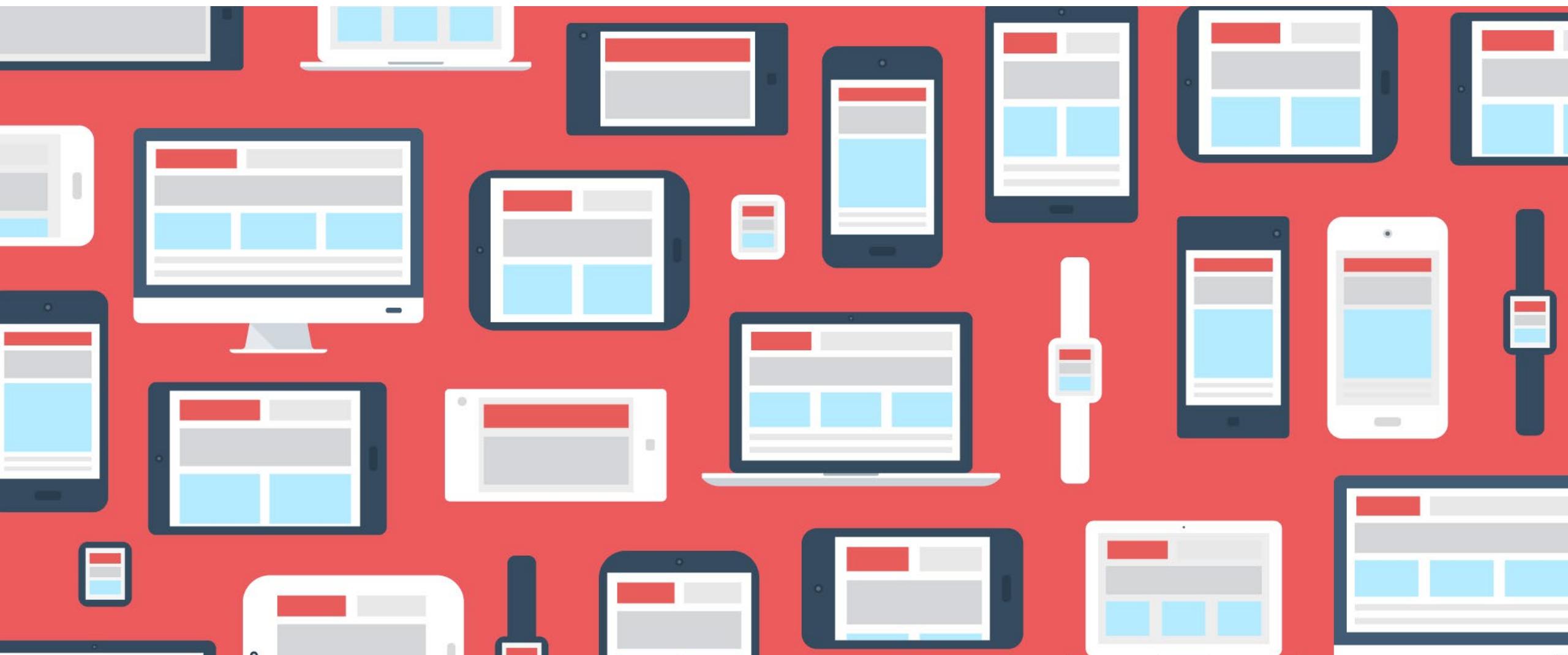
90%

Use multiple screens sequentially to accomplish a task over time



98% move between devices that same day

Med andra ord – tänk responsivt!



IMPORTANT

Fler argument!

Once your page loads, users form an opinion in .05 seconds.

— Kinesis Inc.

40% of people will choose a different search result if the first is not mobile friendly.

—Skillcrush

40% of people will leave a website if it takes more than 3 seconds to load.

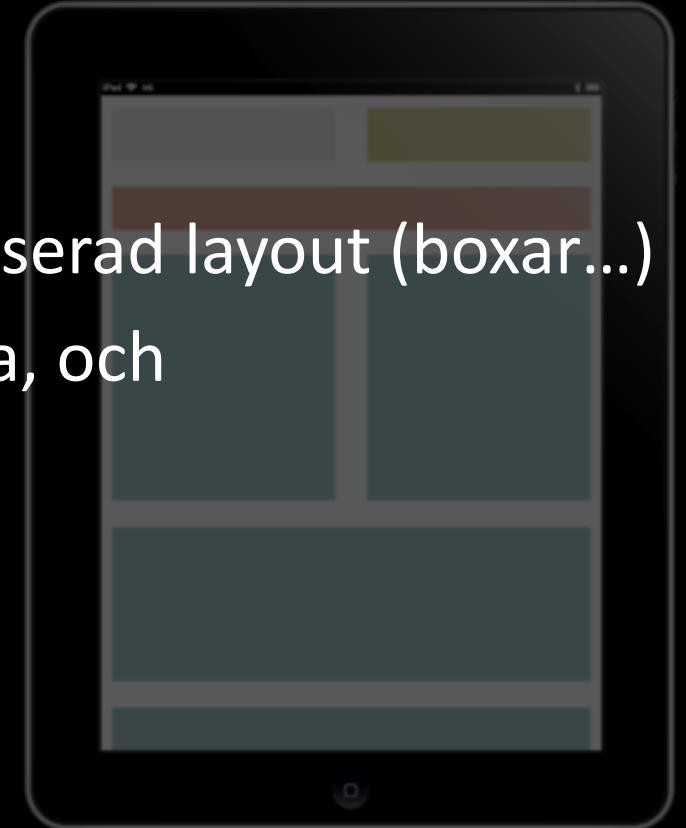
— Econsultancy

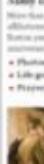
*You have 10 seconds to leave an impression
and tell them what they'll get out of your
website and company. After this time (and
oftentimes before), they'll leave.*

— NN Group

Vad krävs för att bli responsiv?

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



 Welcome to BostonGlobe.com. Feedback or questions? 800.262.3100.	 The Boston Globe Wednesday, April 1, 2009
 Bank of America hopes massive cuts will save billions	 Key Stories
<p>In an effort to cut expenses, which could save by billions a year, Bank of America and "a much simpler company than we are," a "smaller size."</p> <ul style="list-style-type: none">• Economists: Cut growth forecasts	
 Obama urges Congress to act on job bill	 Obama
<p>Speaking from the East Room, Obama urged Congress to pass a range of job legislation and directly challenged "the pessimists, the naysayers, the do-nothings."</p> <ul style="list-style-type: none">• Optimism: 4.8-5.5 billion job loss	
Mixed reviews for patent law overhaul	
<p>Frequencies of a law collecting fee for patent owners and it could spur a burst of innovation. Inventors claim it doesn't go far enough.</p>	
Many battles, one purpose	
<p>More than one group of religious adherents恐怕 a half of the Muslim Center of Boston consider it unnecessary for a Christian to believe in Jesus.</p> <ul style="list-style-type: none">• Planned: 9/11 memorial• Lifegate case, resounding win• 70-year leases, pain, and torment	

[What's new | BostonGlobe.com | Feedback or questions? | 800.222.3626](#)

[HEADLINES | TOP STORIES](#) [SEARCH BOSTON GLOBE](#) [LOG IN](#) [LOG OUT](#)

The Boston Globe

[HOME](#) [OPINION](#) [ARTS](#) [LIVING](#) [BUSINESS](#) [TECHNOLOGY](#) [HEALTH](#) [SCIENCE](#) [TRAVEL](#) [FOOD](#) [CLASSIFIED](#) [ARCHIVES](#)

[PARENTS](#) [BY DESIGN](#)



COURTESY OF THE PROFESSIONAL STAGE COMPANY

With '80s vibe, Hollywood reinvents its stars

The movie industry seems to be at the crossroads of the early 1980s again, bringing sequels and remakes, often with mixed results.

- **Video:** [Video: Full movie preview](#)
- **Full coverage:** [A wrap from Chapter 10: *Chapman*](#)
- **OTR:** [Classic '80s trended in this year](#)
- **Full coverage:** [The *Ghosts* film series preview](#)

Globe starts far-ranging paid website for all devices

The Boston Globe launches [Globe.com](#), subscriptions on mobile, desktop, and tablet devices, as well as a service for on-call reporters who offer an incentive, earning reading experience.

- **Video:** [At home: the new *BostonGlobe.com*](#)
- [Letting readers start their own websites](#)
- [New site: a pack full of Globe's technological revolution](#)
- [Bloomberg asked questions as Globe's new website is launched](#)
- [Review: what's inside *Spine* now on *BostonGlobe.com* devices](#)

Bank of America hopes massive cuts will save billions

By something placed to our great surprise, which would come by accident of a year... [BOA CEO Brian Moynihan] and 'writing a much-needed company that has no 20-year plan' again."

- [Economists: Cut growth forecasts](#)



Obama urges Congress to act on job bill

Speaking from the Rose Garden, President Obama demanded a copy of the legislation and firmly declared: "We passed an historic, once-in-a-lifetime jobs bill."

- [Opposition: A \\$430 billion job bill](#)

Mixed reviews for patent law overhauls

Progressives are calling out for reforming the US patent system and it could spark a wave of innovation. Does that mean it didn't go far enough?

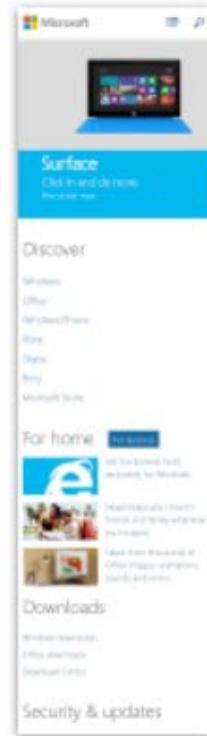
Many faults, one purpose

More than one people believe religious affiliation played a role in the failure of Boston's *Diocese of Boston* to communicate the issue of same-sex marriage.

- [Plaintiffs: gay couple's marriage](#)
- [Life goes on, churches remain](#)
- [Protests, tears, pain, and humor](#)

The #1 Real Estate Company in New England

The screenshot shows the homepage of The Boston Globe. At the top, there's a navigation bar with links like "HOME", "OPINION", "ARTS", "LIFESTYLE", "OBITUARIES", "CLASSIFIED", and "PRODUCTS". Below the header, there's a large, prominent image of several men in historical military uniforms, possibly from World War I, standing outdoors. To the right of this image, the main title "The Boston Globe" is displayed in a large, serif font. On the left side of the page, there's a sidebar with several news headlines. The central area contains a large article with a bold title: "Bank of America hopes massive cuts will save billions". Below the title, there's a paragraph of text followed by a bulleted list of five items. Further down the page, there's another section titled "Globe starts foraging: paid website for all devices". This section includes a small image of a smartphone displaying the globe.com website, followed by a list of six bullet points. On the right side of the page, there's a sidebar with a blue box containing text and a logo for "COLONIAL BANKERS", along with the URL "NewEnglandMortgage.com". At the bottom of the page, there's a section titled "Most Popular" with a list of five items.



Microsoft

Surface Click in and do more
Watch video

Discover

- Windows
- Office
- Windows Phone
- More
- Store
- Bing
- Microsoft Store

For home

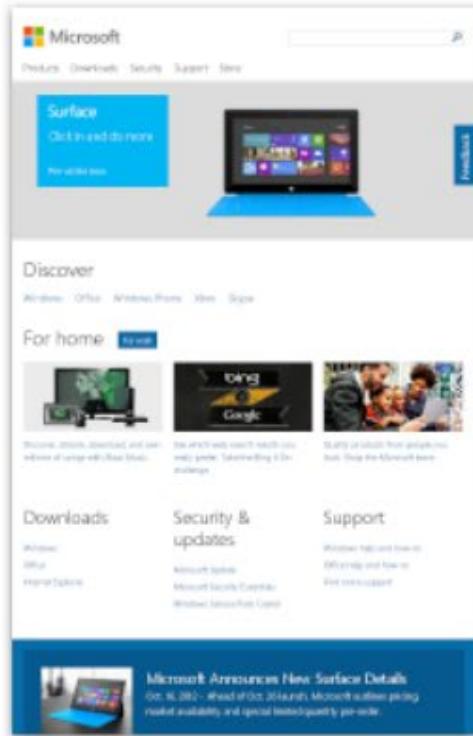
- Get the latest tools exclusively for Windows
- Search history is cleared from the Start screen every 90 days
- Take full advantage of Office 2013 and Windows 8.1 Pro features
- Take full advantage of Office 2013 and Windows 8.1 Pro features

Downloads

- Windows
- Office
- Internet Explorer

Microsoft Announces New Surface Details

Oct. 16, 2012 - Ahead of Oct. 26 launch, Microsoft outlines pricing, market availability and special introductory price offer.



Microsoft

Surface Click in and do more
Watch video

Discover

Windows Office Windows Phone Xbox Skype

For home

Discover

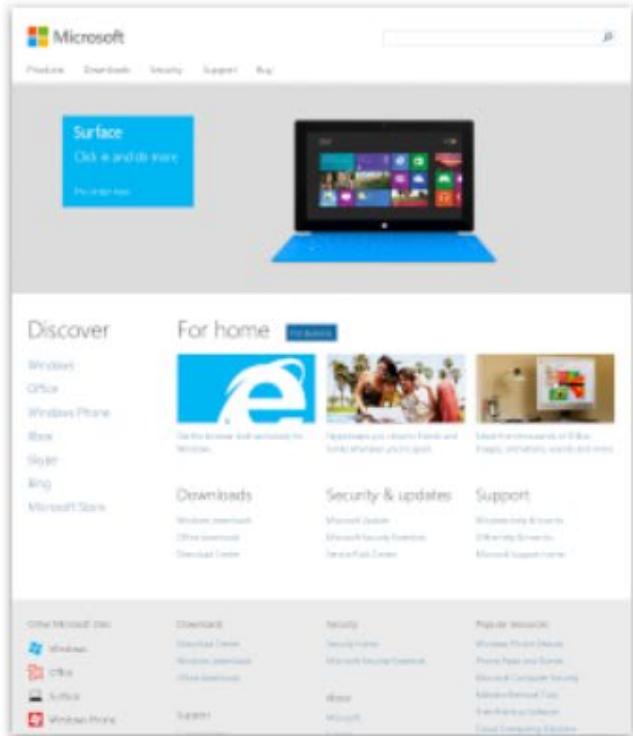
- Windows
- Office
- Windows Phone
- Xbox
- Sky
- Bing
- Microsoft Store

Downloads

- Windows
- Office
- Internet Explorer

Microsoft Announces New Surface Details

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Microsoft

Surface Click in and do more
Watch video

Discover

For home

- Windows
- Office
- Windows Phone
- Xbox
- Sky
- Bing
- Microsoft Store

Downloads

- Windows download
- Office download
- Download Center

Security & updates

- Windows Update
- Microsoft Security Essentials
- Windows Security Center

Support

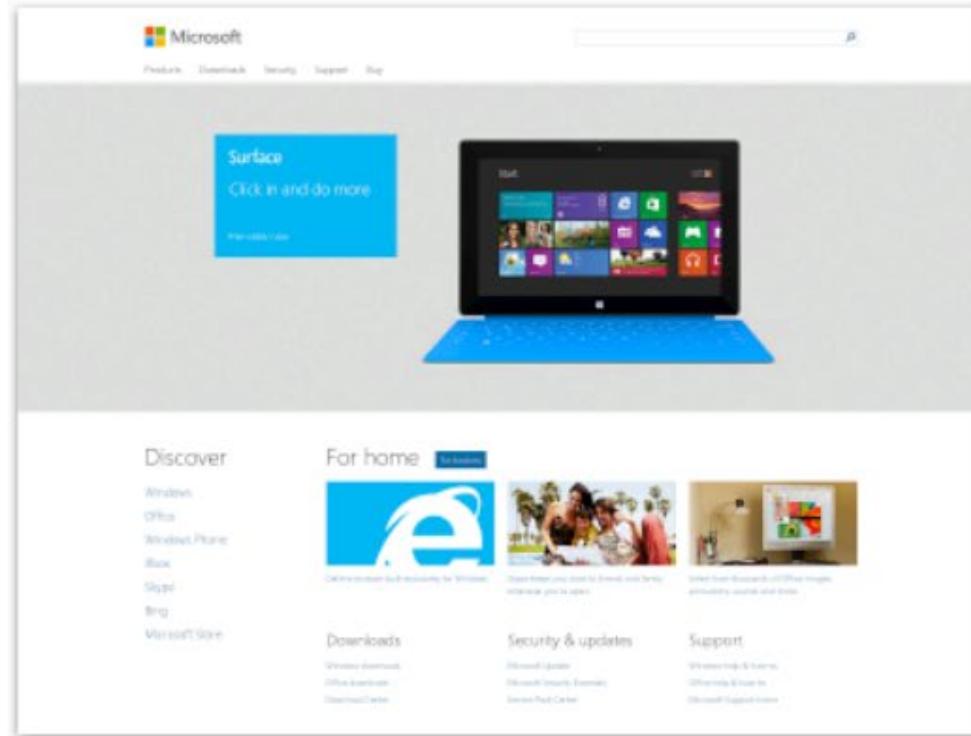
- Windows Help & Support
- Office Help & Support
- Download Center

Other Microsoft sites

- Windows
- Office
- Skype
- Windows Phone

Support

- Windows
- Office



Microsoft

Surface Click in and do more
Watch video

Discover

For home

- Windows
- Office
- Windows Phone
- Xbox
- Sky
- Bing
- Microsoft Store

Downloads

- Windows download
- Office download
- Download Center

Security & updates

- Windows Update
- Microsoft Security Essentials
- Windows Security Center

Support

- Windows Help & Support
- Office Help & Support
- Download Center

Introduktion till webbutveckling

DA156A: Webbutveckling

Introduktion till webbutveckling

Denna webbplats innehåller material från en grundkurs i webbutveckling. De som läser kursen är den primära målgruppen, men mycket kan förhoppningsvis vara användbart även för andra. Allt material är publicerat under en **fri licens**, vilket gör att det kan återanvändas av andra, så länge upphovsman anges.

Syfte

I den bakomliggande kursplanen beskrivs syfte och mål:

Kursen syftar till att introducera utveckling av webbplatser, liksom en teoretisk bakgrund till de begränsningar och möjligheter som ges av aktuella standarder och plattformar. Studenten ska också utveckla en inledande förståelse av hur användarbehov och -beteende kan styra utvecklingen av ett gränssnitt.

Den beskrivningen är väldigt avsiktlig och formulerad utan att nämna specifika tekniker. Istället ligger fokus på "modern webbutveckling" och "aktuella standarder och plattformar". Målet är således att hålla en bra balans mellan grundläggande principer och viktiga nya utvecklingar. Hösten 2015 betyder det bland annat HTML5 och CSS 3, med fokus på tillgänglighet och användbarhet för olika enheter.

Bra länkar

Malmö Högskola

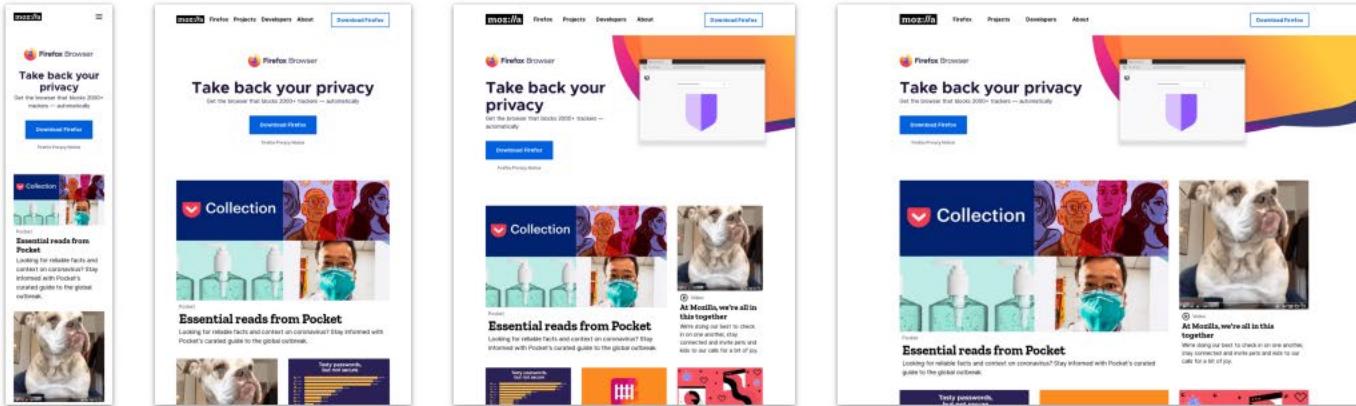
Media Queries



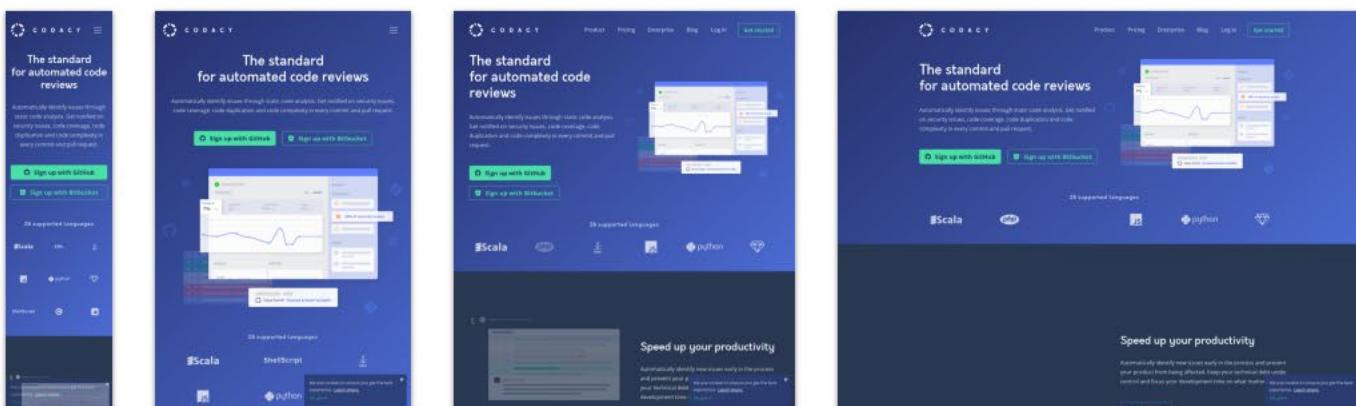
Your new development career awaits. Check out the latest listings.

ads via Carbon

Mozilla



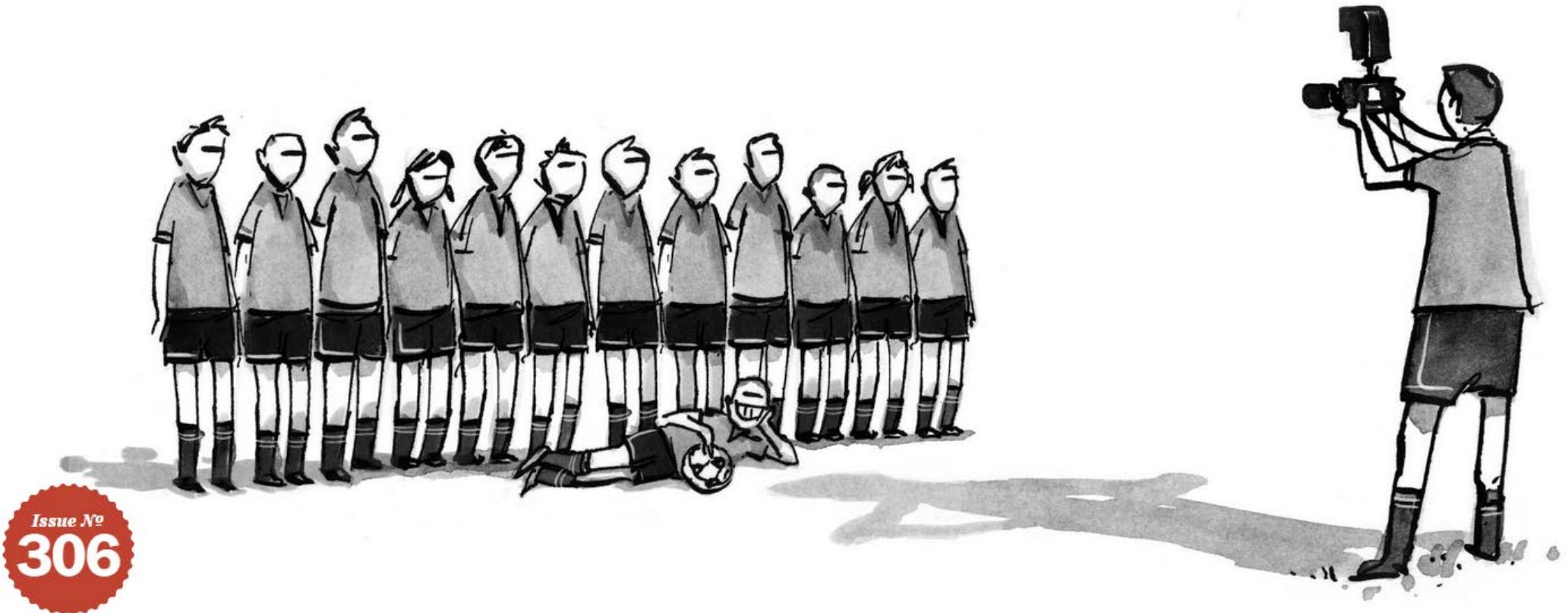
Codacy



Code Climate



<http://mediaqueri.es/>

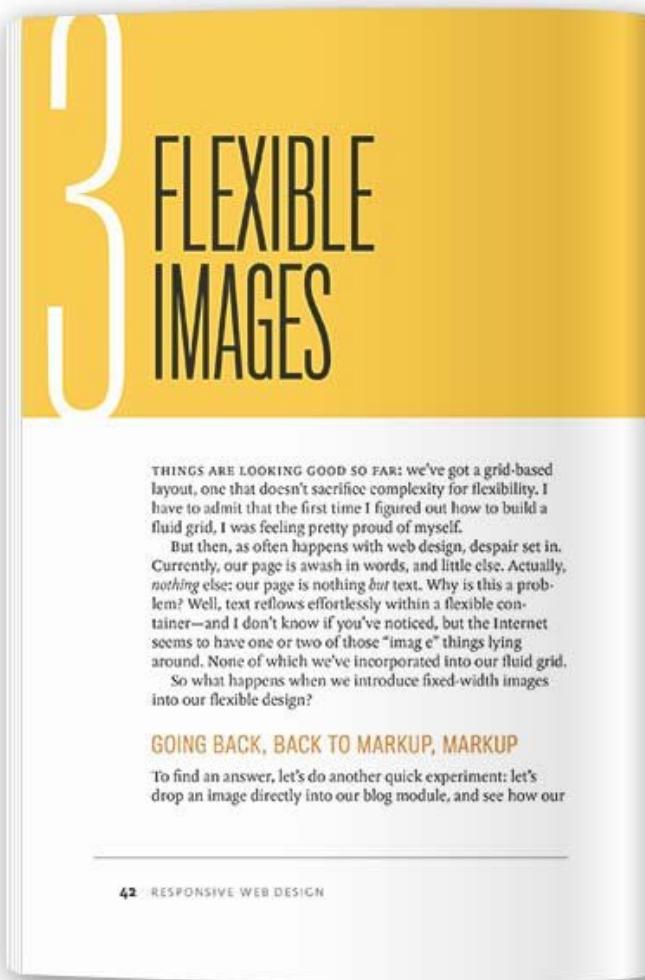


Responsive Web Design

by ETHAN MARCOTTE · May 25, 2010

Published in [CSS](#), [Layout & Grids](#), [Mobile/Multidevice](#), [Responsive Design](#), [Interaction Design](#) ·

[103 Comments](#)



A BOOK APART
Brief books for people who make websites

No. 4

Ethan Marcotte

RESPONSIVE WEB DESIGN

FOREWORD BY Jeremy Keith



<http://www.abookapart.com/products/responsive-web-design>

<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

Nyckelord för responsiv webbdesign

- CSS 3 Media Queries
- Flexible layout
- Flexible media
- Breakpoints
- Mobile viewport sizes
- Compatibility

KEYWORDS



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



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/csswg/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](#).



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

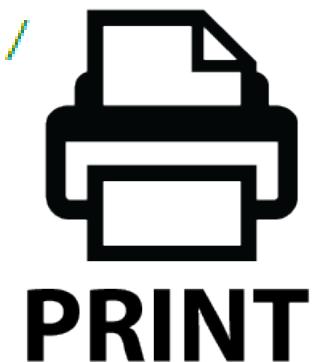


Att styra för olika mål

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



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



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;  
    }  
}
```

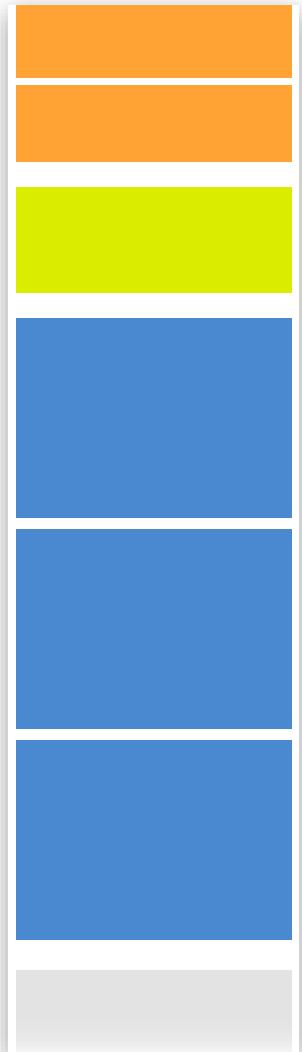
Att styra för olika upplösningar

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





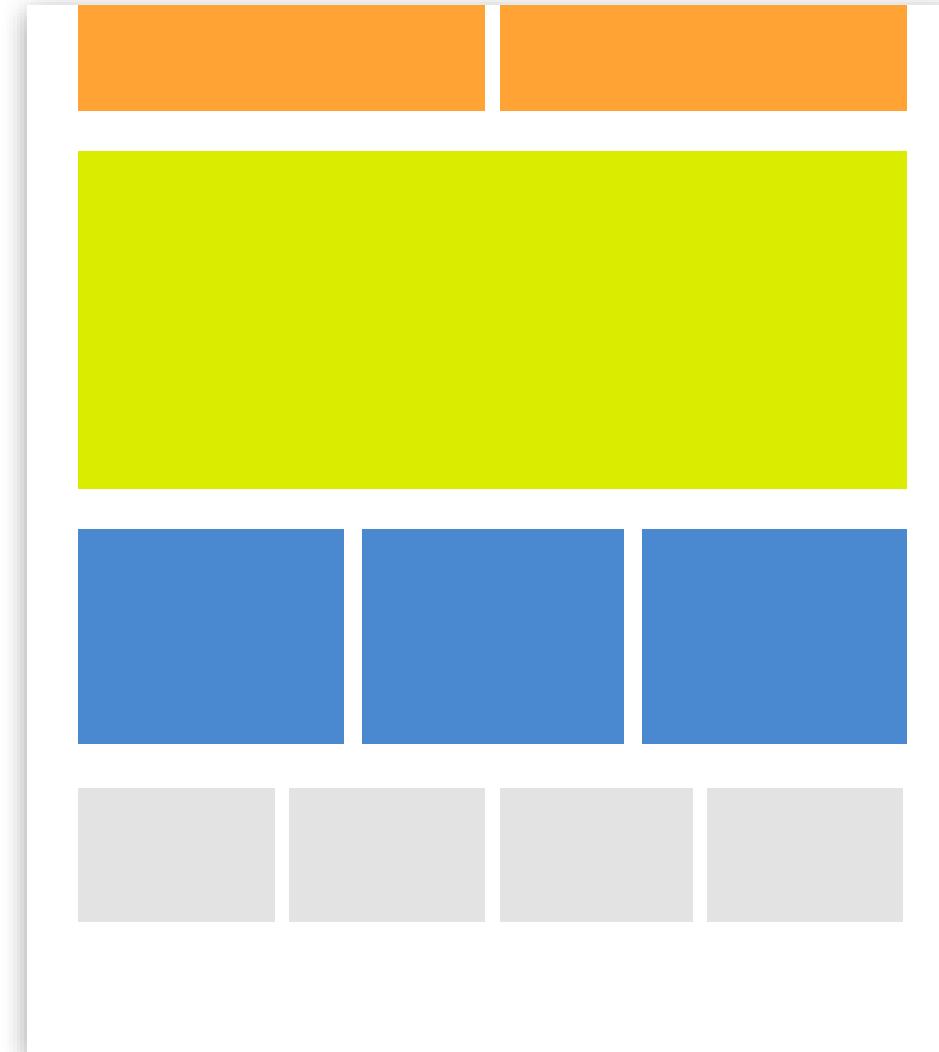
320px



768px



1024px





Att jobba med media queries

DEMO - media print & media screen

Enheter i CSS

Relative Lengths

Relative length units specify a length relative to another length property. Relative length units scales 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
%		

Enheter i CSS

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

Flexibel layout & media

%

Exempelsida

Om Star Wars

Navigation

[Star Wars - The force awakens](#)

Star Wars - The force awakens

"Star Wars" har fått ett nytt skimrande hopp

"The Force Awakens" är inte bara en grandios öppning på en ny trilogi, det är en av årets bästa filmer oavsett genre, och om du också vill känna dig som sju är gammal igen för några timmar så får du bara inte missa den. Det här är total eufori för alla fans.

Jag ler. Jag ler med hela ansiktet, från öra till öra, och har gjort det ända sedan den där klassiska rullande fortexen drog igång. Jag älskar "Star Wars", förstår ni, och "The Force Awakens" är ett kärleksbrev till just mig. Eller till oss, till alla som vuxit upp på Hoth eller på Tatooine, eller kanske på en av Endors månen.

På den hårdas ökenplanetet Jakku hittar vi Rey, en alldeles för ensam skräckare som hinner sig på att renlsa gamla Star Destroyer på utstrålning som hon sedan säljer för matrassoner. I en läcker selvans fär vi följa henne när hon klättrar runt intill ett av de enorma strandade skeppen som kräcklandat i sandhavet. Det är smutsigt, ogivitvändigt och utsatt, och det var alltså inte bara PR-snack att vi skulle få en långt mycket mer realistisk värld den här gången. Det känns "Star Wars" på det där ingroddta sättet som "Star Wars" kändes för. Sand i ögonen och damm i hönen, liksom. This ain't your children. "Star Wars".

På ett uppdrag för The First Order som går att jämföra med det gamla Imperiet, ungefär, hittar vi Finn, en stormtrooper med ett hjärtå, som vilset letar en anledning att lyda sina order. När han inte hittar någon drar äventyret igång, och inom kort har Finn, Rey, och den lilla, underbart sötta robotten BB-8 tillsammans lyckats få den onde Kylo Ren efter sig i en vild katt-och-ratt-flek som ska ta dem långt ut i galaxen och vidare.

Det känns direkt nägonstans i magroppen att J.J. Abrams träffat rätt. I princip varandra karakter jag introduceras till har djup, hjärta och själ, och det är mitt sanna nöje att börja tycka om dem allihop, nästan från start. Humorn som bollas fram emellan dem sitter som handen i handsken och jag garvar högt gång på gång, i lika delar fängt euforisk nostalgi som genuin glädje. Filmen backar inte för att blanda upp de frenetiska actionsekvenserna med ett skämt här, eller en glirring där, och det är valdigt befrämnde. Det finns en alldeles lagom mängd respekt för originaltrilogin här. Nog för att kännaas vordnadsfull, men inte så mycket att den stryper all kreativitet.

"The Force Awakens" har också lyckats med konstytuetet att hitta exakt rätt skådisar till rätt roller. Daisy Ridley som Rey är en skådespelerska att bli kär i, och spelar med en särbarhet och ärlighet som får mig att bry mig om henne på riktigt. Hon är en fullständig uppenbarelse. John Boyega som Finn är rolig, för det mestta utan att dra det för långt, och återigen, han formidlar hjärtå innanför den där vita plastrustningen. Adam Driver fullkomligen springer hem guldet med sin prestation som Kylo Ren, och lyckas både kännaas hotfull, volatil och paradoxalt nog svag på samma gång. Det är näronting i hans röst parat med hans långa slanka siluett som verkligen säljer karaktern. Hans Jussabell, den där röda med parerstång, hostar och kraxar och sprakar förhårligt varje gång han tar fram den och jag inbillar mig att han byggt den själv i något garage nägonstans, utan att egentligen veta hur man gör. Jag lyser upp varje gång han kommer in i bild.

Historien är simpel och går i en rak linje, ungefär som den gjorde i den första filmen från 1977. Det här är nämligen i mångt och mycket "Stjärnornas Krig" fast 38 år senare. Strukturen är densamma i "The Force Awakens", och det känns matiné och äventyr här istället för handelspolitik och krystad kärlekshistoria. Det är



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 a design evolution for the Surface product page.

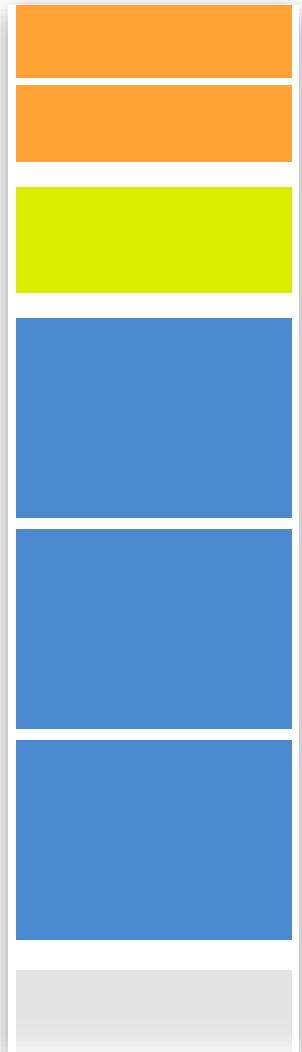
Screenshot 1 (Left): Shows the initial version of the Surface product page. It features a large "Surface Click in and do more" banner at the top. Below it is a "Discover" section with links for Windows, Office, Windows Phone, Bing, and Microsoft Store. A "For home" section highlights the Surface tablet and includes links for Downloads, Security & updates, and Support. At the bottom, there's a news banner about Microsoft Announces New Surface Details.

Screenshot 2 (Middle): Shows a refined version of the Surface product page. The "Discover" section has been moved to the bottom of the page. The "For home" section now includes links for Windows, Office, Windows Phone, Bing, and Microsoft Store. The main content area features a larger image of the Surface tablet.

Screenshot 3 (Right): Shows the final, most polished version of the Surface product page. The "Discover" section is now at the very bottom. The "For home" section includes links for Windows, Office, Windows Phone, Bing, and Microsoft Store. The main content area features a prominent image of the Surface tablet.



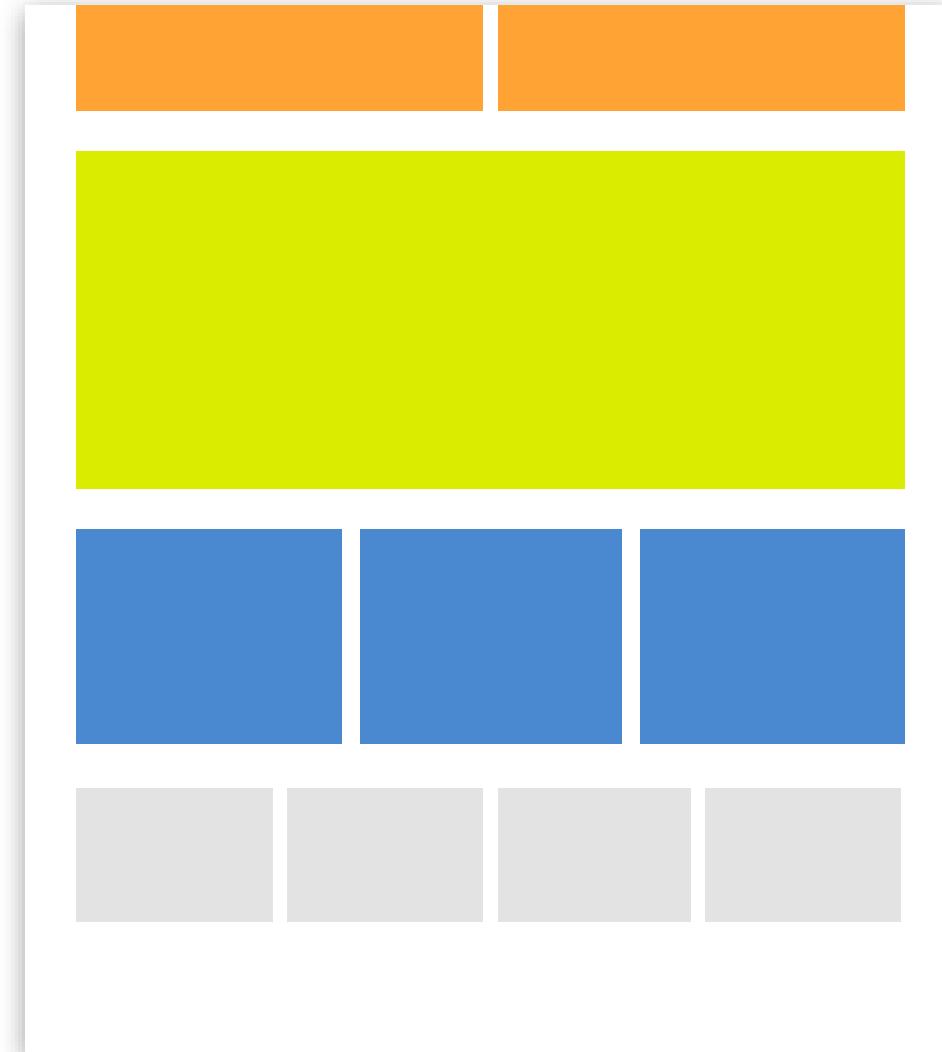
320px



768px



1024px



320 pixels	For small screen devices, like phones, held in portrait mode.
480 pixels	For small screen devices, like phones, held in landscape mode.
600 pixels	Smaller tablets, like the Amazon Kindle (600×800) and Barnes & Noble Nook (600×1024), held in portrait mode.
768 pixels	Ten-inch tablets like the iPad (768×1024) held in portrait mode.
1024 pixels	Tablets like the iPad (1024×768) held in landscape mode, as well as certain laptop, netbook, and desktop displays.
1200 pixels	For widescreen displays, primarily laptop and desktop browsers.

TABLE 5.1: A list of example resolution breakpoints.

Exempel på brytpunkter

<http://lawrencestewart.ca/popular-media-queries-for-responsive-web-design/>



Brief books for people who make websites

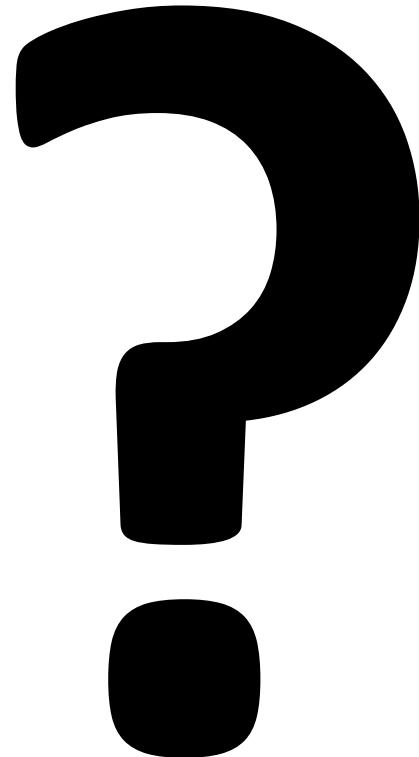
NO.

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!"*

<http://www.peachpit.com/articles/article.aspx?p=1945831>

Responsiv design

[Hem](#)

[Nyheter](#)

[Om](#)

[Kontakt](#)

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[Till föreläsningen som exemplet hör till.](#)

Att jobba med brytpunkter

Vilka enheter ska vi anpassa oss till?



Responsiv design

[Hem](#)

[Nyheter](#)

[Om](#)

[Kontakt](#)

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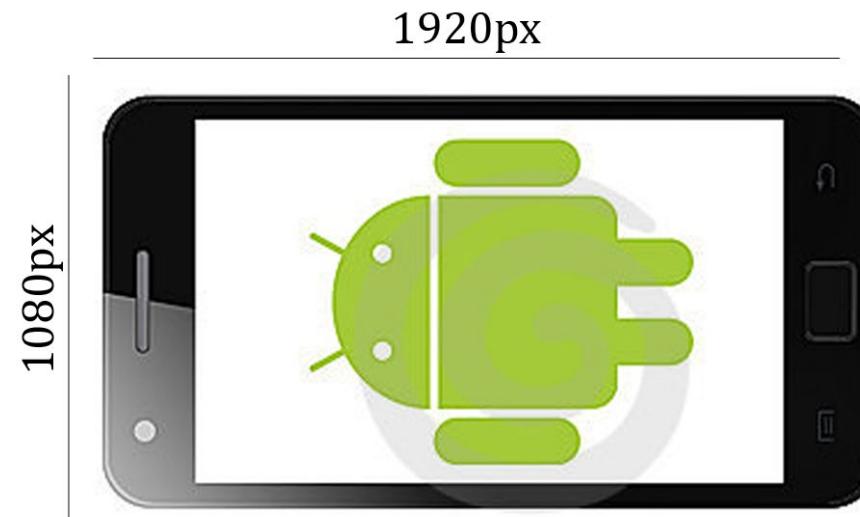
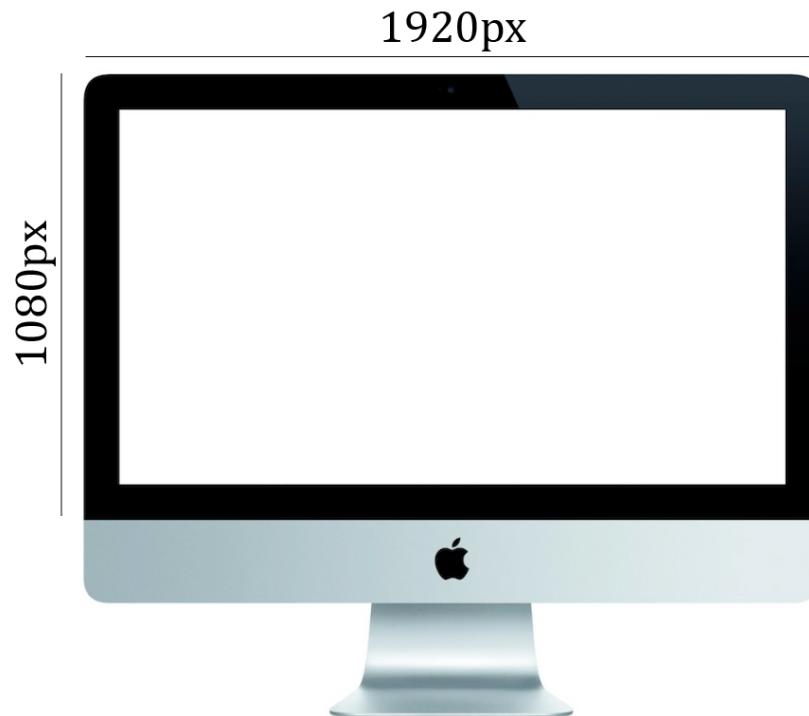
Consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

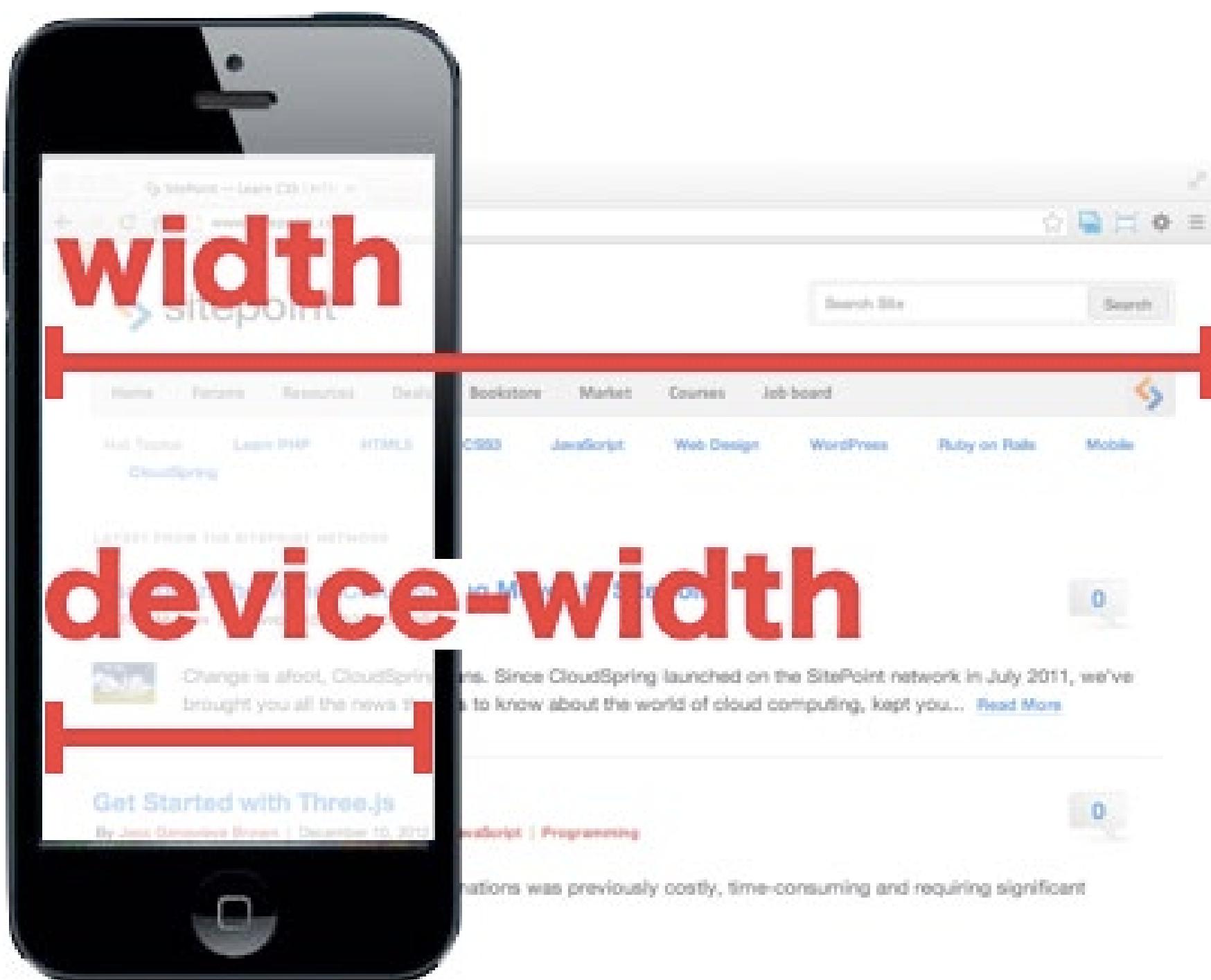
[Till föreläsningen som exempllet hör till.](#)

Mobile Viewport Sizes

Är en pixel alltid en pixel?

https://developer.mozilla.org/en-US/docs/Mozilla/Mobile/Viewport_meta_tag







```
alert(document.documentElement.clientWidth);
```



Anpassa storlek efter skärmstorlek

Hmm, det blev ju ganska litet... hur löser vi detta?



shorturl.at/gBCK1

<https://webshare.mah.se/tsanti/da156a/nonresponsive/>

Olika viewports

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

initial-scale=1

maximum-scale=1

minimum-scale=1

width=500

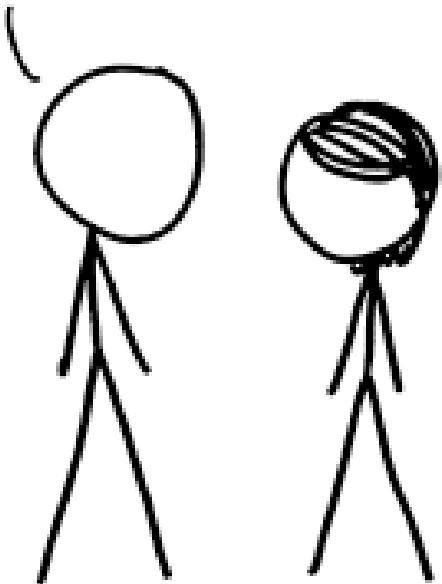
user-scalable=no

<http://dev.w3.org/csswg/css-device-adapt/>

Gör vår webbsida responsiv! =)

INSTALLING THINGS HAS
GOTTEN SO FAST AND PAINLESS.
/

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



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