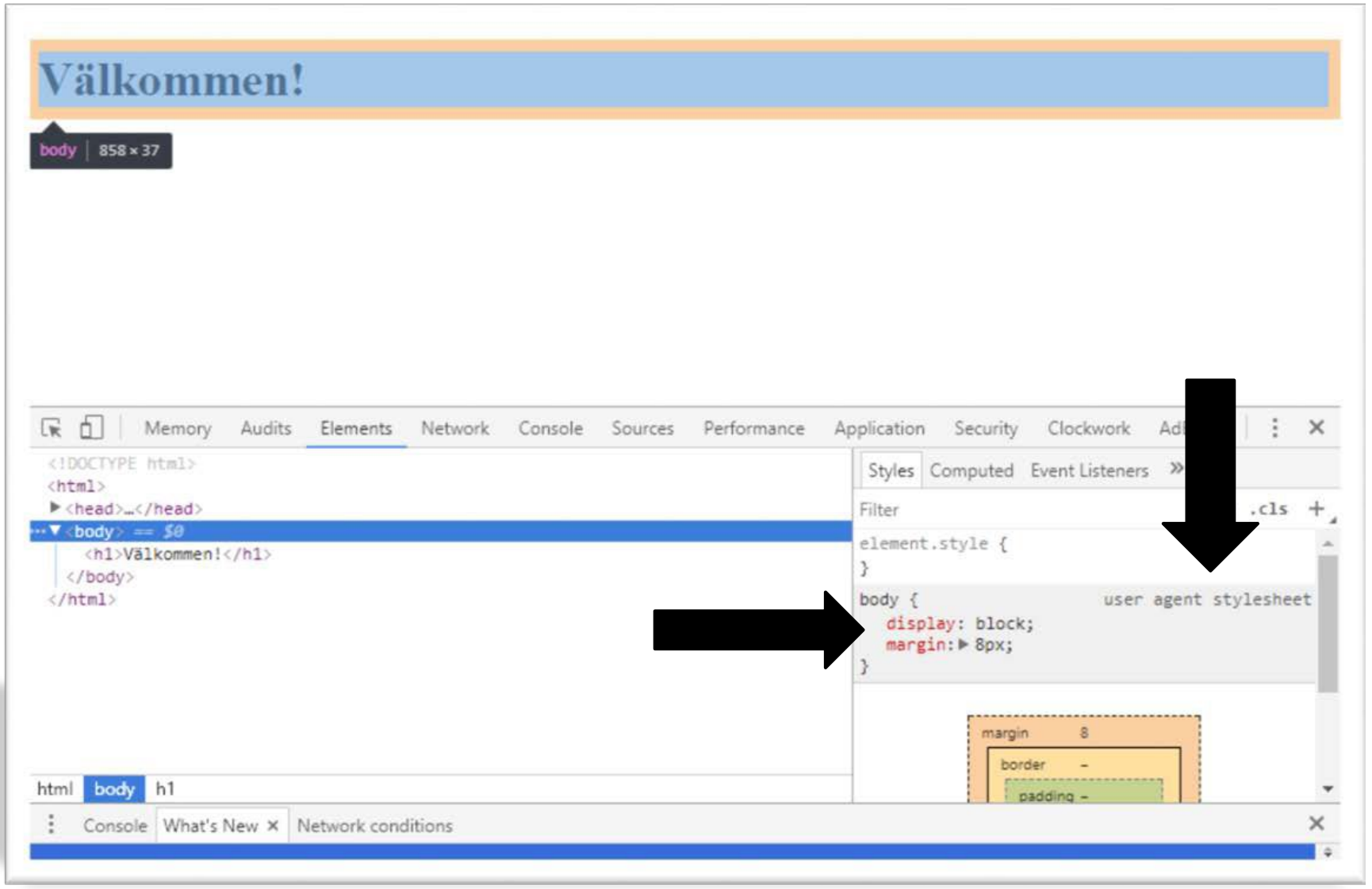
LAYOUT MED CSS (2)

LAYOUT MED CSS (2)

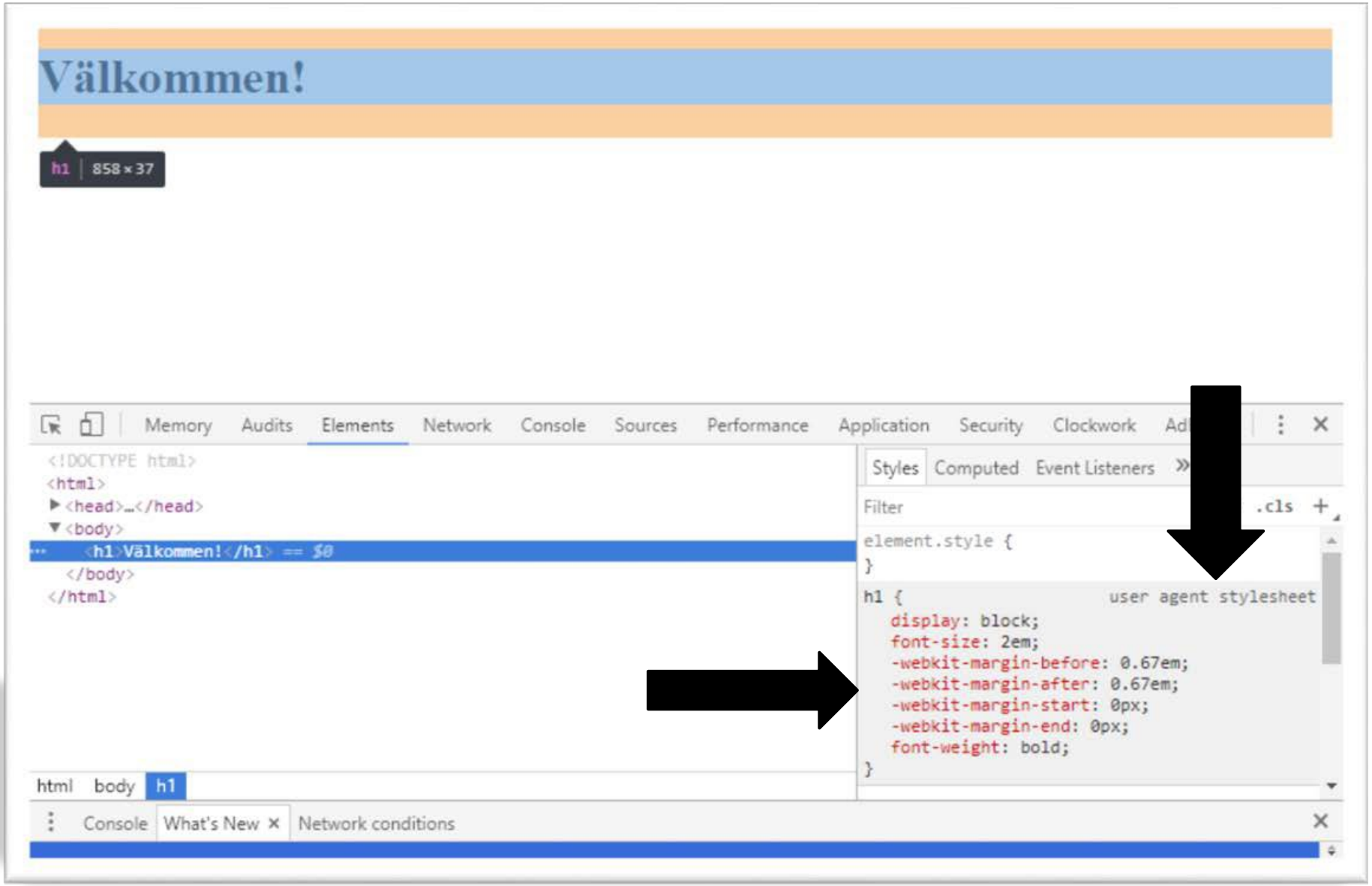
Dagens agenda

- Tips och trix kring CSS
  - CSS reset
  - Repetition av arv
    (och viktighet av CSS-regler)
  - ”Nya” CSS 3-egenskaper
  - CSS-animationer
- Layout med Flexbox
- Layout med Grids

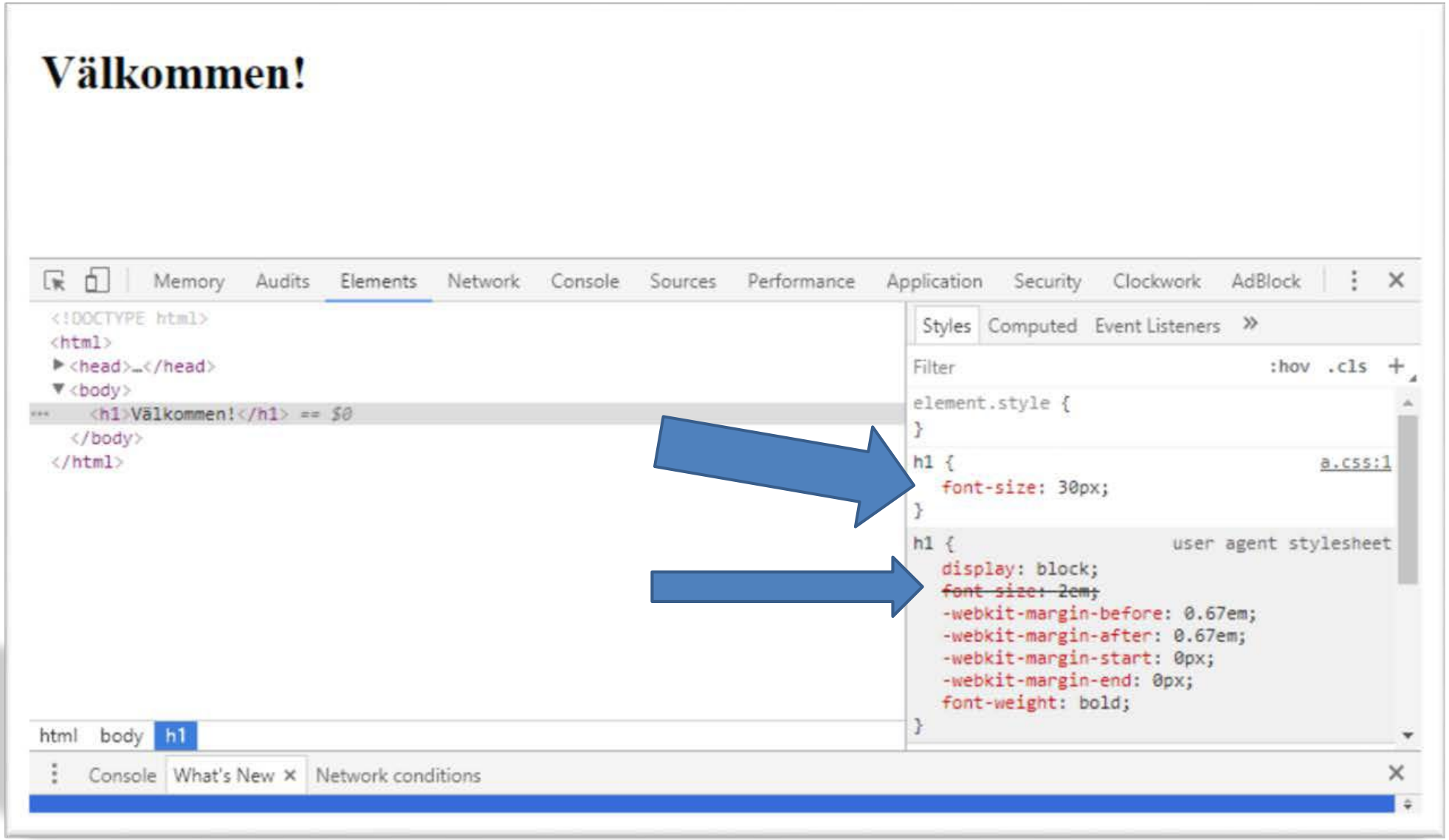
Förinställda CSS-regler för webbläsaren



Förinställda CSS-regler för webbläsaren



Att skriva över webbläsarens evenskaper?



MEN DETTA ÄR JU JOBBIGT – HUR VET JAG ALLA WEBBLÄSARENS FÖRINSTÄLLDA CSS-EGENSKAPER?

… och hur ändrar jag dessa?

CSS: reset?

World Wide Web

The WorldWideWeb (W3) is a wide-area hypermedia information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an executive summary of the project, Mailing lists , Policy , November's W3 news , Frequently Asked Questions .

What's out there?
Pointers to the world's online information, subjects , W3 servers, etc.

Help
on the browser you are using

Software Products
A list of W3 project components and their current state. (e.g. Line Mode ,X11 Viola , NeXTStep , Servers , Tools , Mail robot , Library)

Technical
Details of protocols, formats, program internals etc

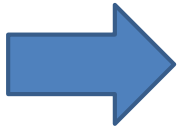
Bibliography
Paper documentation on W3 and references.

People
A list of some people involved in the project.

History
A summary of the history of the project.

How can I help ?
If you would like to support the web..

Getting code
Getting the code by anonymous FTP , etc.



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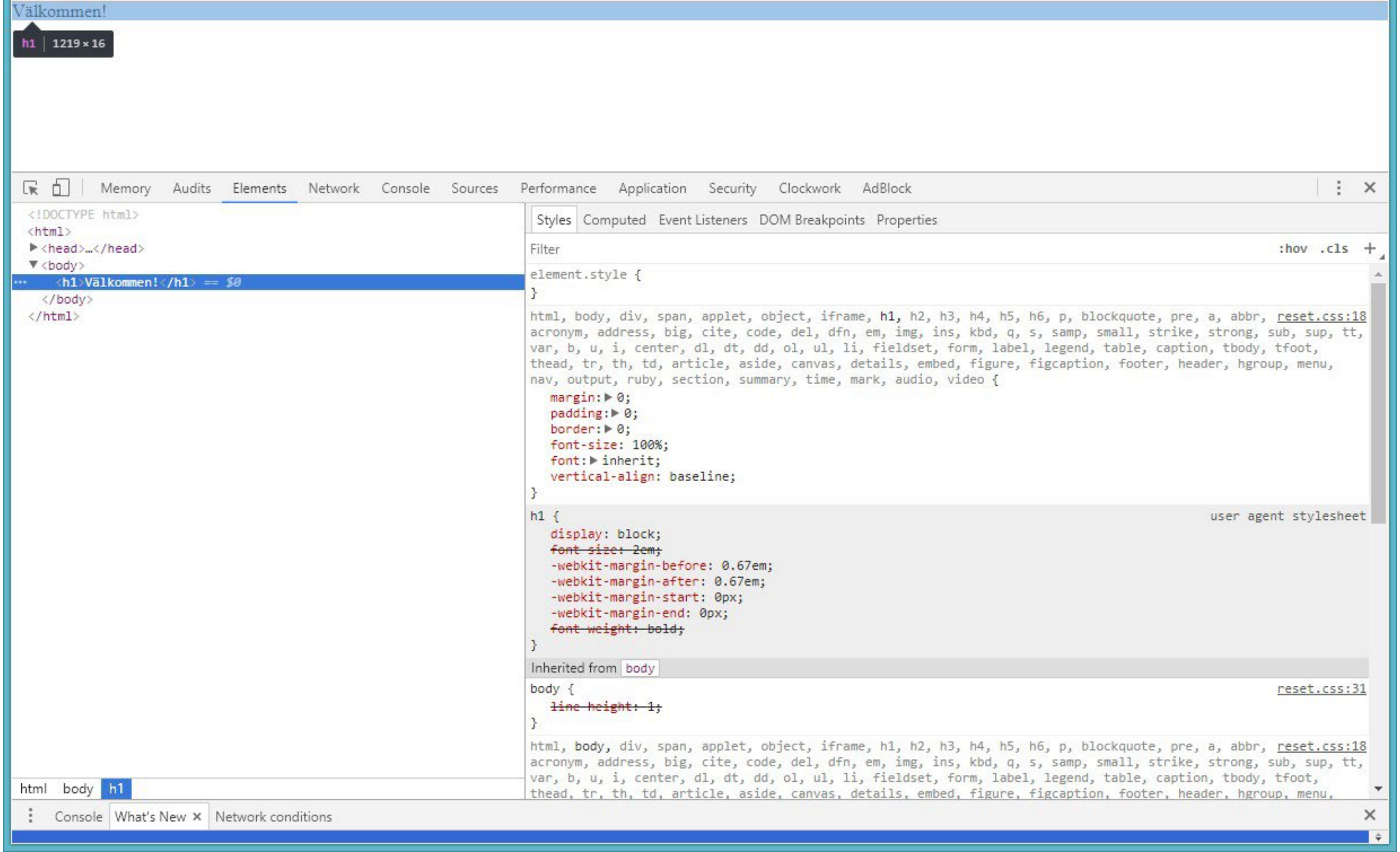
https://marksheet.io/css-reset.html

```
/* http://meyerweb.com/eric/tools/css/reset/
   v2.0 | 20110126
   License: none (public domain)
*/

html, body, div, span, applet, object, iframe,
h1, h2, h3, h4, h5, h6, p, blockquote, pre,
a, abbr, acronym, address, big, cite, code,
del, dfn, em, img, ins, kbd, q, s, samp,
small, strike, strong, sub, sup, tt, var,
b, u, i, center,
dl, dt, dd, ol, ul, li,
fieldset, form, label, legend,
table, caption, tbody, tfoot, thead, tr, th, td,
article, aside, canvas, details, embed,
figure, figcaption, footer, header, hgroup,
menu, nav, output, ruby, section, summary,
time, mark, audio, video {
        margin: 0;
        padding: 0;
        border: 0;
        font-size: 100%;
        font: inherit;
        vertical-align: baseline;
}
/* HTML5 display-role reset for older browsers */
article, aside, details, figcaption, figure,
footer, header, hgroup, menu, nav, section {
        display: block;
}
body {
        line-height: 1;
}
ol, ul {
        list-style: none;
}
blockquote, q {
        quotes: none;
}
blockquote:before, blockquote:after,
q:before, q:after {
        content: '';
        content: none;
}
table {
        border-collapse: collapse;
        border-spacing: 0;
}
```


Välkommen!
h1 | 1219 × 16
Memory Audits Elements Network Console Sources Performance Application Security Clockwork AdBlock
<!DOCTYPE html>
<html>
▶ <head>…</head>
▼ <body>
<h1>Välkommen!</h1> == $0
</body>
</html>
Styles Computed Event Listeners DOM Breakpoints Properties
Filter :hov .cls +
element.style {
}
html, body, div, span, applet, object, iframe, h1, h2, h3, h4, h5, h6, p, blockquote, pre, a, abbr, reset.css:18
acronym, address, big, cite, code, del, dfn, em, img, ins, kbd, q, s, samp, small, strike, strong, sub, sup, tt,
var, b, u, i, center, dl, dt, dd, ol, ul, li, fieldset, form, label, legend, table, caption, tbody, tfoot,
thead, tr, th, td, article, aside, canvas, details, embed, figure, figcaption, footer, header, hgroup, menu,
nav, output, ruby, section, summary, time, mark, audio, video {
margin: ▶ 0;
padding: ▶ 0;
border: ▶ 0;
font-size: 100%;
font: ▶ inherit;
vertical-align: baseline;
}
h1 { user agent stylesheet
display: block;
font-size: 2em;
-webkit-margin-before: 0.67em;
-webkit-margin-after: 0.67em;
-webkit-margin-start: 0px;
-webkit-margin-end: 0px;
font-weight: bold;
}
Inherited from body
body { reset.css:31
line-height: 1;
}
html, body, div, span, applet, object, iframe, h1, h2, h3, h4, h5, h6, p, blockquote, pre, a, abbr, reset.css:18
acronym, address, big, cite, code, del, dfn, em, img, ins, kbd, q, s, samp, small, strike, strong, sub, sup, tt,
var, b, u, i, center, dl, dt, dd, ol, ul, li, fieldset, form, label, legend, table, caption, tbody, tfoot,
thead, tr, th, td, article, aside, canvas, details, embed, figure, figcaption, footer, header, hgroup, menu,
html body h1
Console What's New × Network conditions

CSS reset

Fördelar

- Full kontroll över sin CSS-kod
- Tar bort ev. skillnader mellan webbläsare

Nackdelar

- Mer kod att skriva, då vi ej använder den ”färdiga” koden webbläsaren
- Man måste tänka på att formge *alla element* som ska formges.
  - är nu inte fetstilt, t.ex.
  - Listor har inga nummer/punkter
  - Etc.

ATT HÅLLA KOLL PÅ VILKA EGENSKAPER SOM GÄLLER

Inte alltid så enkelt som man tror!

Selector	Example	Example description	CSS
.class	.intro	Selects all elements with class="intro"	1
#id	#firstname	Selects the element with id="firstname"	1
*	*	Selects all elements	2
element	p	Selects all <p> elements	1
element,element	div, p	Selects all elements and all <p> elements	1
element element	div p	Selects all <p> elements inside elements	1
element>element	div > p	Selects all <p> elements where the parent is a element	2
element+element	div + p	Selects all <p> elements that are placed immediately after elements	2

JU MER SPECIFIK EN SELETOR ÄR, JU HÖGRE PRIORITERAS DEN

Tumregel

Exempel

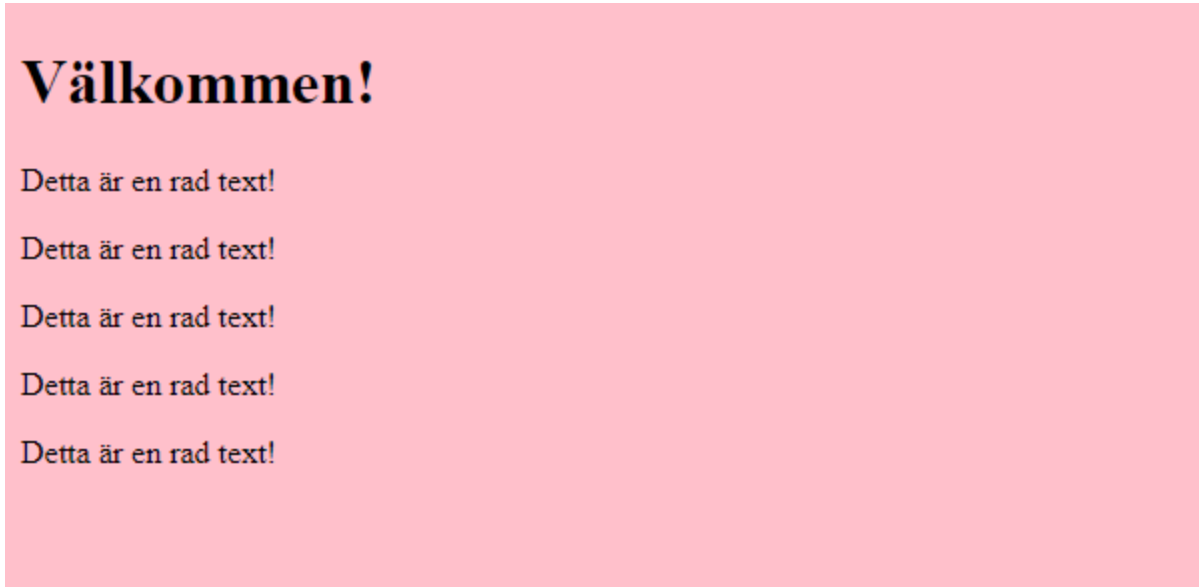
HTML

```html
<!doctype html>
<html>
    <head>
        <meta charset="utf-8">
        <title>Demo</title>
        <link href="a.css" rel="stylesheet">
    </head>

    <body>
        <h1>Välkommen!</h1>

        <p>Detta är en rad text!</p>
        <p>Detta är en rad text!</p>
        <p>Detta är en rad text!</p>
        <p>Detta är en rad text!</p>
        <p>Detta är en rad text!</p>

    </body>
</html>
```

CSS

```css
body {
    background-color: pink;
}
```

Webbläsare



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        <p>Detta är en rad text!</p>
        <p>Detta är en rad text!</p>

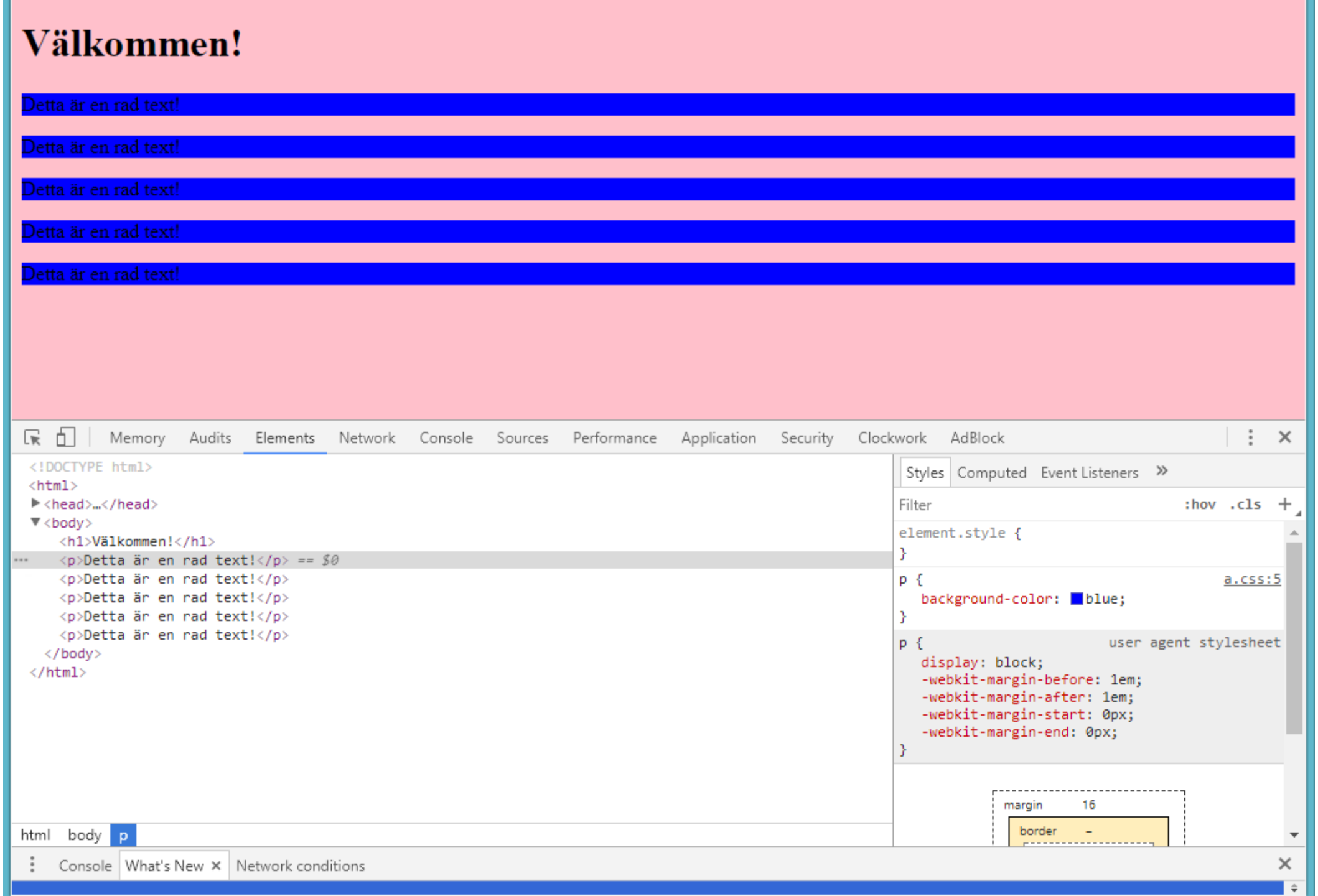
    </body>
</html>
```

CSS

```css
body {
    background-color: pink;
}

p {
    background-color: blue;
}
```

Webbläsare


Välkommen!
Detta är en rad text!
Detta är en rad text!
Detta är en rad text!
Detta är en rad text!
Detta är en rad text!
Memory
Audits
Elements
Network
Console
Sources
Performance
Application
Security
Clockwork
AdBlock
<!DOCTYPE html>
<html>
<head>…</head>
<body>
<h1>Välkommen!</h1>
Detta är en rad text! == $0
Detta är en rad text!
Detta är en rad text!
Detta är en rad text!
Detta är en rad text!
</body>
</html>
Styles
Computed
Event Listeners
Filter
:hov .cls
element.style {
}
p {
a.css:5
background-color: blue;
}
p {
user agent stylesheet
display: block;
-webkit-margin-before: 1em;
-webkit-margin-after: 1em;
-webkit-margin-start: 0px;
-webkit-margin-end: 0px;
}
margin
16
border
html
body
p
Console
What's New
Network conditions

Exempel

HTML

```html
<!doctype html>
<html>
    <head>
        <meta charset="utf-8">
        <title>Demo</title>
        <link href="a.css" rel="stylesheet">
    </head>

    <body>
        <h1>Välkommen!</h1>

        <p class="green">Detta är en rad text!</p>
        <p>Detta är en rad text!</p>
        <p class="green">Detta är en rad text!</p>
        <p>Detta är en rad text!</p>
        <p class="green">Detta är en rad text!</p>

    </body>
</html>
```

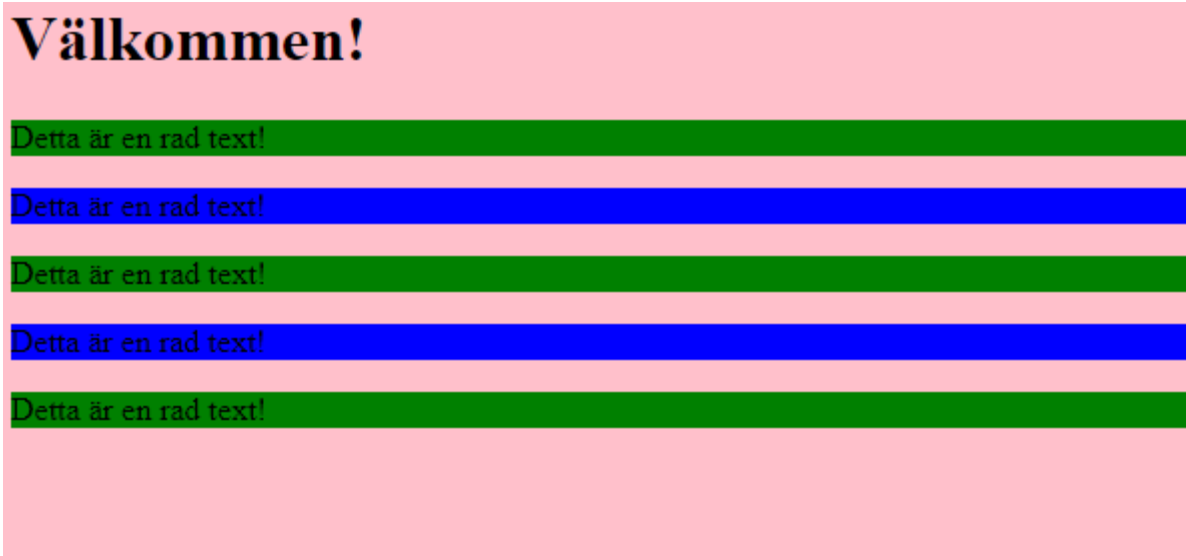
CSS

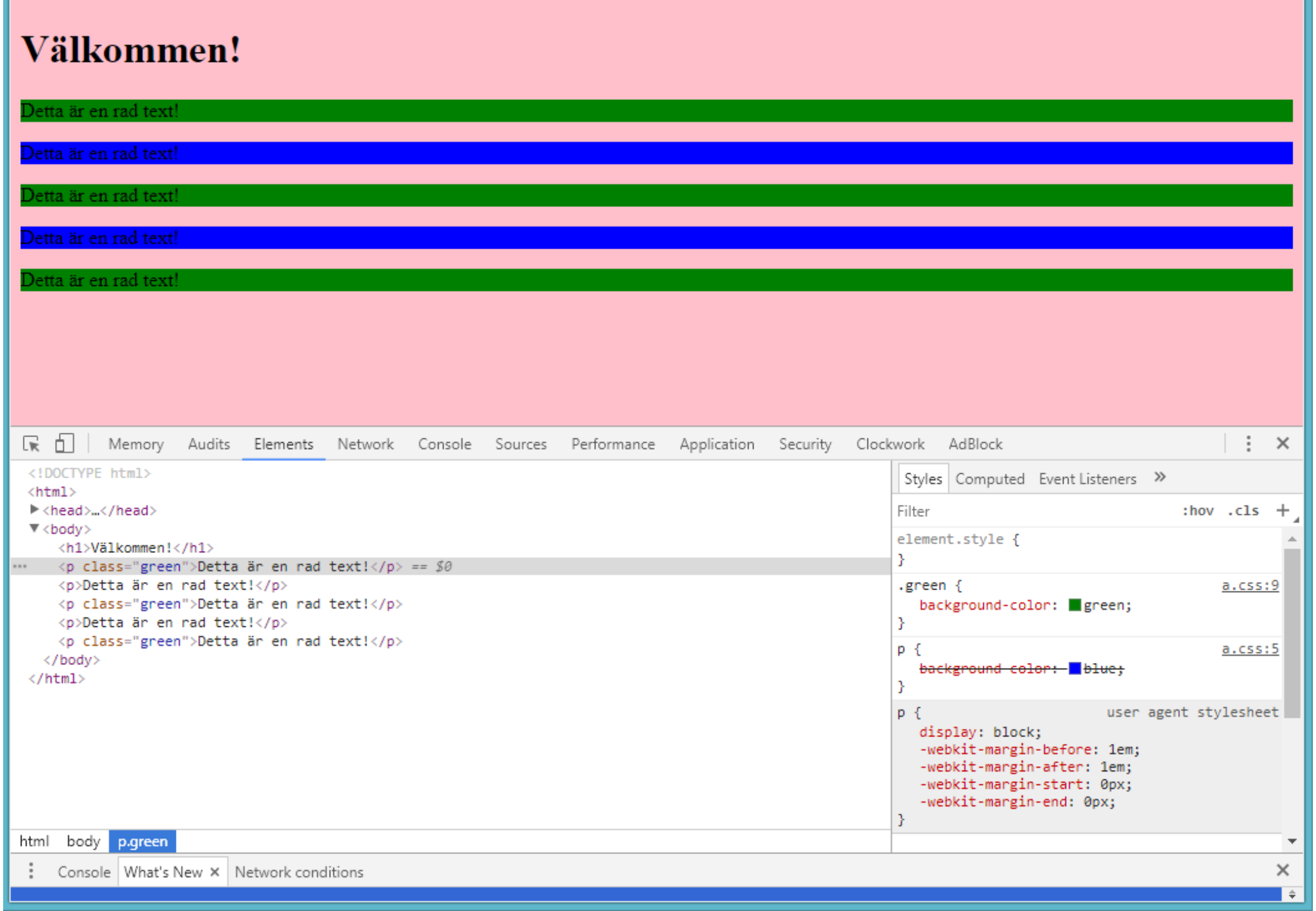
```css
body {
    background-color: pink;
}

p {
    background-color: blue;
}

.green {
    background-color: green;
}
```

Webbläsare

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:hov
.cls
element.style {
}
.green {
a.css:9
background-color: green;
}
p {
a.css:5
background-color: blue;
}
p {
user agent stylesheet
display: block;
-webkit-margin-before: 1em;
-webkit-margin-after: 1em;
-webkit-margin-start: 0px;
-webkit-margin-end: 0px;
}
html
body
p.green
Console
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Exempel

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<html>
    <head>
        <meta charset="utf-8">
        <title>Demo</title>
        <link href="a.css" rel="stylesheet">
    </head>

    <body>
        <h1>Välkommen!</h1>

        <p class="green">Detta är en rad text!</p>
        <p>Detta är en rad text!</p>
        <p class="green" id="red">Detta är en rad text!</p>
        <p>Detta är en rad text!</p>
        <p class="green">Detta är en rad text!</p>

    </body>
</html>
```

CSS

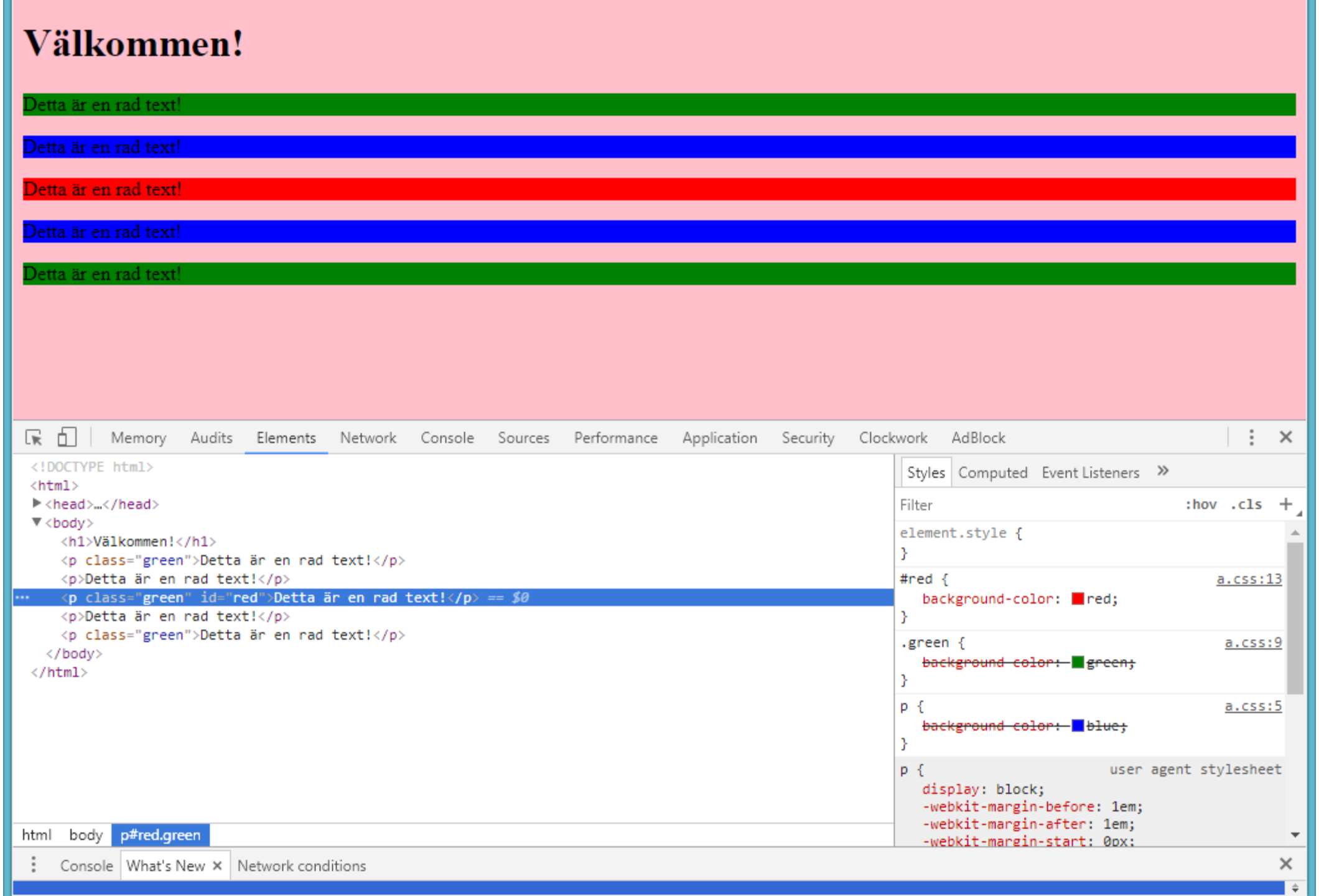
```css
body {
    background-color: pink;
}

p {
    background-color: blue;
}

.green {
    background-color: green;
}

#red {
    background-color: red;
}
```

Webbläsare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Detta är en rad text!
Detta är en rad text!
</body>
</html>
Styles
Computed
Event Listeners
Filter
:hov .cls
element.style {
}
#red {
a.css:13
background-color: red;
}
.green {
a.css:9
background-color: green;
}
p {
a.css:5
background-color: blue;
}
p {
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display: block;
-webkit-margin-before: 1em;
-webkit-margin-after: 1em;
-webkit-margin-start: 0px;
html
body
p#red.green
Console
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CSS
3

CSS3
CSS3 Introduction
CSS3 Rounded Corners
CSS3 Border Images
CSS3 Backgrounds
CSS3 Colors
CSS3 Gradients
CSS3 Shadows
CSS3 Text
CSS3 Fonts
CSS3 2D Transforms
CSS3 3D Transforms
CSS3 Transitions
CSS3 Animations
CSS3 Images
CSS3 Buttons
CSS3 Pagination
CSS3 Multiple Columns
CSS3 User Interface
CSS3 Box Sizing
CSS3 Flexbox
CSS3 Media Queries
CSS3 MQ Examples

CSS3 Modules

CSS3 has been split into "modules". It contains the "old CSS specification" (which has been split into smaller pi
are added.

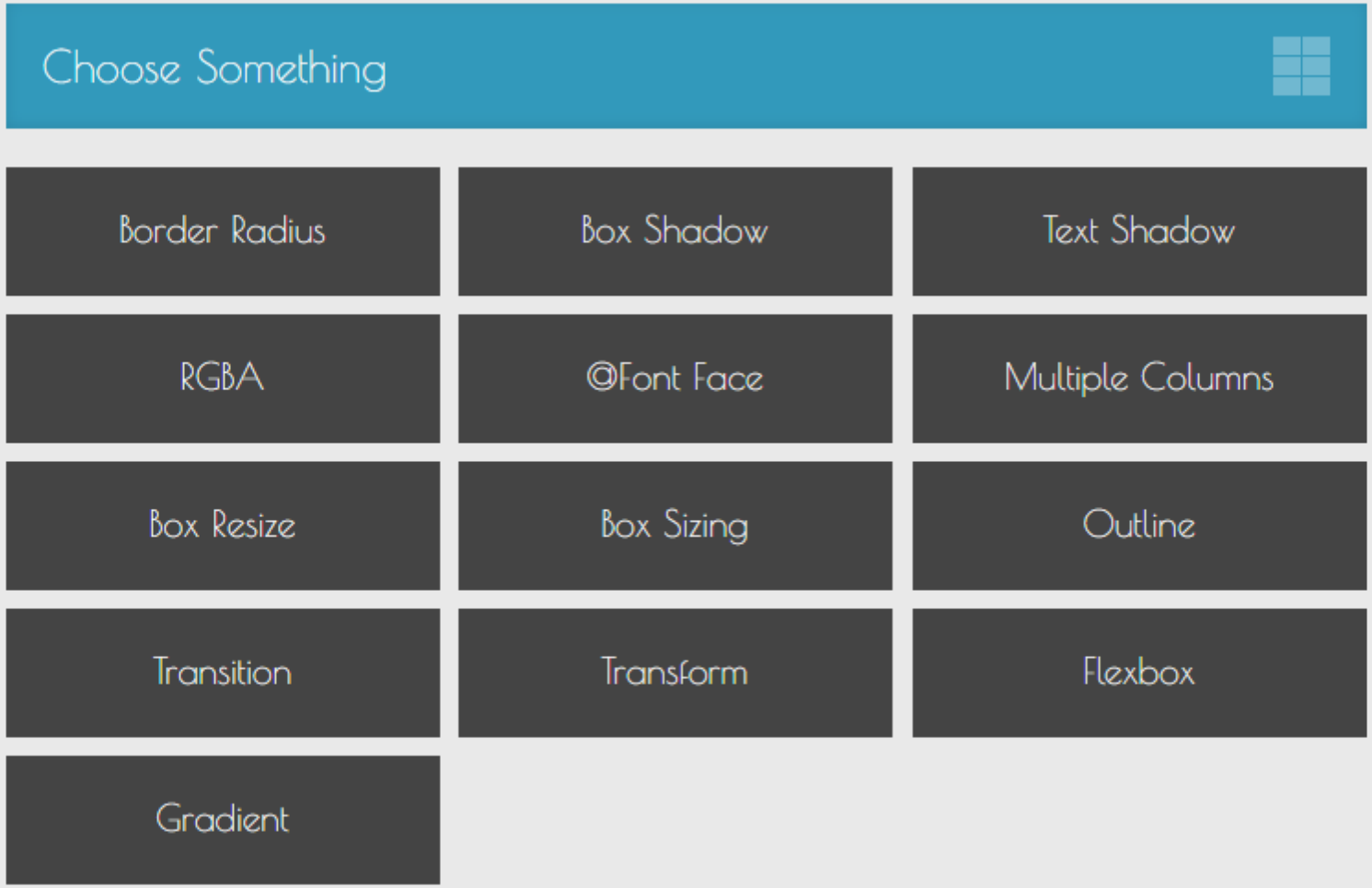
Some of the most important CSS3 modules are:

- Selectors
- Box Model
- Backgrounds and Borders
- Image Values and Replaced Content
- Text Effects
- 2D/3D Transformations
- Animations
- Multiple Column Layout
- User Interface

Most of the new CSS3 properties are implemented in modern browsers.

```
}

.animate {
    display: -webkit-flex;
    display: -moz-flex;
    display: -ms-flex;
    display: -o-flex;
    display: flex;
}
```

CSS3 Generator



http://css3generator.com/

DEMO

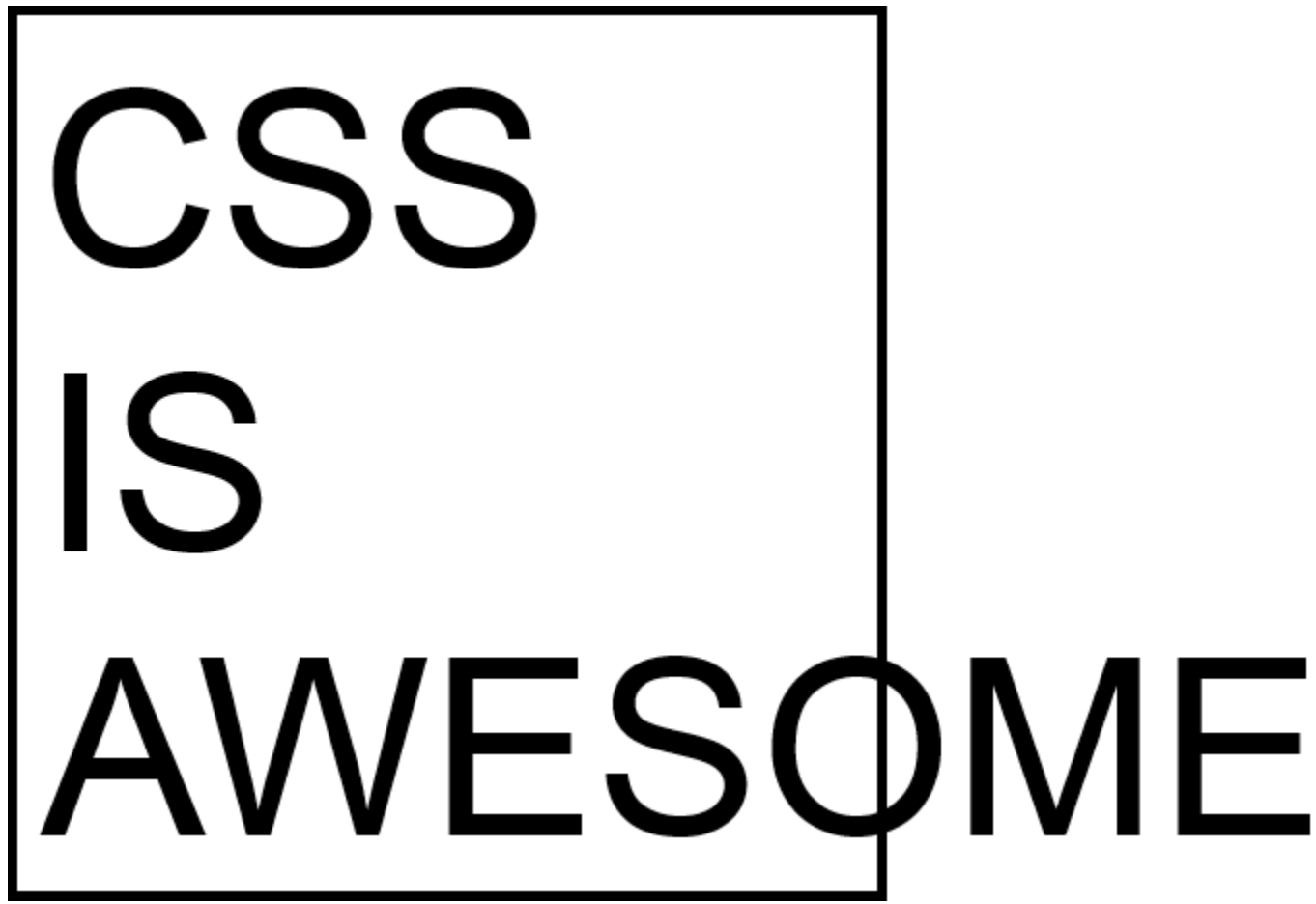
Rundade hörn, skugga,
animationer, etc.

+ CSS reset

LAYOUTER - HISTORIK

ONE DOES NOT SIMPLY...
KNOW HELL UNTIL THEY'VE TRIED
WEB DEVELOPMENT WITH CSS
MemeCenter.com

learn to create a website
add HTML to it
add CSS to it
add CSS to


CSS
IS
AWESOME

CSS
IS
AWESOME

CSS 1: 1996

- Formatera text (typsnitt, fetstilt, kursivt)
- Färg för text och element
- Textattribut (avstånd mellan ord, mellan rader, etc.)
- Placering av element (text, bilder, tabeller, m.m.)
- Marginaler, ”luft” (padding), ramar, positionering
- M.m.

CSS 2: 2004

- Postitionering: Absolute, fixed, relative
- Z-index
- Nya text-egenskaper (t.ex. skuggor)

CSS 2.1: 2007 (2009, 2011)

- Media typer
- Visuella effekter
- Tabeller
- Bättre selektorer
- M.m.

CSS 3: ?

- Bättre selektorer
- Media Queries
- Kolumner
- Flexibel layout
- Grids layout
- M.m.

FLEXBOX

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

W3C Candidate Recommendation

TABLE OF CONTENTS

1 **Introduction**
1.1 Overview
1.2 Module interactions

2 **Flex LayoutBox Model and Terminology**

3 **Flex Containers: the 'flex' and 'inline-flex' 'display' values**

4 **Flex Items**
4.1 Absolutely-Positioned FlexChildren
4.2 Flex Item Margins and Paddings
4.3 Flex ItemZ-Ordering
4.4 Collapsed Items
4.5 Automatic Minimum Size of Flex Items

5 **Ordering and Orientation**
5.1 Flex Flow Direction the 'flex-direction' property
5.2 Flex Line Wrapping the 'flex-wrap' property
5.3 Flex Direction and Wrap the 'flex-flow' shorthand
5.4 Display Order: the 'order' property
5.4.1 Reordering andAccessibility

6 **Flex Lines**

7 **Flexibility**

Css Flexible Box Layout Module Level 1

W3C Candidate Recommendation, 19 October 2017

This version:
https://www.w3.org/TR/2017/CR-css-flexbox-1-20171019/

Latest publishedversion:
https://www.w3.org/TR/css-flexbox-1/

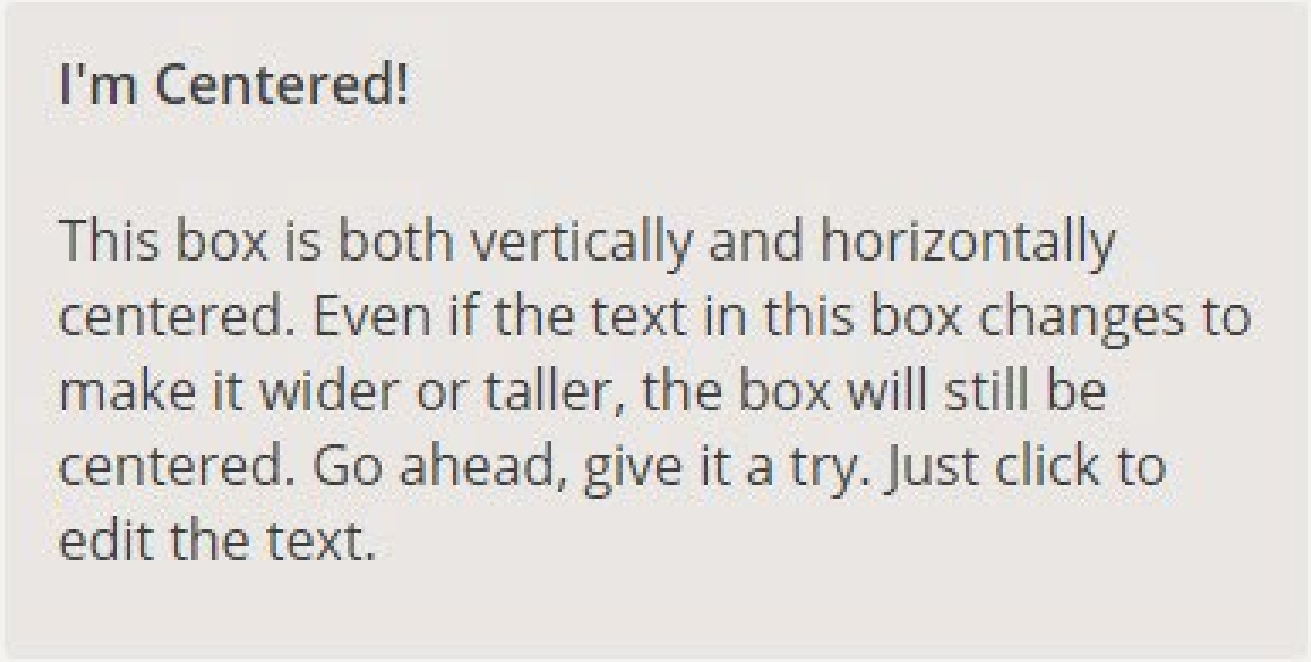
Editor's Draft:
https://drafts.csswg.org/css-flexbox/

Previous Versions:
https://www.w3.org/TR/2016/CR-css-flexbox-1-20160526/
https://www.w3.org/TR/2016/CR-css-flexbox-1-20160301/
https://www.w3.org/TR/2015/WD-css-flexbox-1-20150514/
https://www.w3.org/TR/2014/WD-css-flexbox-1-20140925/
https://www.w3.org/TR/2014/WD-css-flexbox-1-20140325/
https://www.w3.org/TR/2012/CR-css3-lfexbox-20120918/
https://www.w3.org/TR/2012/WD-css3-flexbox-20120612/
https://www.w3.org/TR/2012/WD-css3-flexbox-20120322/
https://www.w3.org/TR/2011/WD-css3-flexbox-20111129/
https://www.w3.org/TR/2011/WD-css3-flexbox-20110322/
https://www.w3.org/TR/2009/WD-css3-flexbox-20090723/

Test Suite:
http://testcsswg.org/suites/css-flexbox-1 dev/nightly-unstable/

Editors:
Tab Atkins Jr. (Google)
Elika J. Etemad / fantasai {Invited Expert)
Rossen Atanassov (Microsoft)

PROBLEMS
AHEAD
CAUTION



I'm Centered!

This box is both vertically and horizontally centered. Even if the text in this box changes to make it wider or taller, the box will still be centered. Go ahead, give it a try. Just click to edit the text.

Sticky Footer

Click the button below to hide the contents of this page. Notice how the footer sticks to the bottom of the window even when there's not enough content to fill the page.

Toggle Contents

Star 11,344 Follow @philwalton 8,279 followers Tweet

Created and maintained by **Philip Walton**. Source code and examples released under the **MIT** license. Website and documentation licensed under **CC BY 4.0**.

Nested Media Objects

Media Object Title

Phasellus vel felis purus. Aliquam consequat pellentesque dui, non mollis erat dictum sit amet. Curabitur non quam dictum, consectetur arcu in, vehicula justo.

Mauris porta arcu id magna adipiscing lacinia at congue lacus. Vivamus blandit quam quis tincidunt egestas. Etiam posuere lectus sed sapien malesuada molestie.

Vestibulum ac turpis non lacus dignissim dignissim eu sed dui. Proin a ligula sit amet massa malesuada mattis eu a ante. Nunc porttitor sed quam quis sollicitudin. Vestibulum ac turpis non lacus dignissim dignissim eu sed dui.

Rutrum risus aliquam vitae.

Media Object Title

Phasellus vel felis purus. Aliquam consequat pellentesque dui, non mollis erat dictum sit amet. Curabitur non quam dictum, consectetur arcu in, vehicula justo. Donec tortor massa, eleifend nec viverra in, aliquet at eros. Mauris laoreet condimentum mauris, non tempor massa fermentum ut.

Donec imperdiet sem leo, id rutrum risus aliquam vitae.

Mauris porta arcu id magna adipiscing lacinia at congue lacus. Vivamus blandit quam quis tincidunt egestas. Etiam posuere lectus sed sapien malesuada molestie. Aliquam vitae pharetra dolor. Nullam non mattis nunc.

Add-on Prepended

Amount

Add-on Appended

Go

Appended and Prepended Add-ons

Example One

Send

Example One

Encrypt

Basic Grids

The grid cells below do not specify any widths, they just naturally space themselves equally and expand to fit the entire row. They're also equal height by default.

1/2	1/2

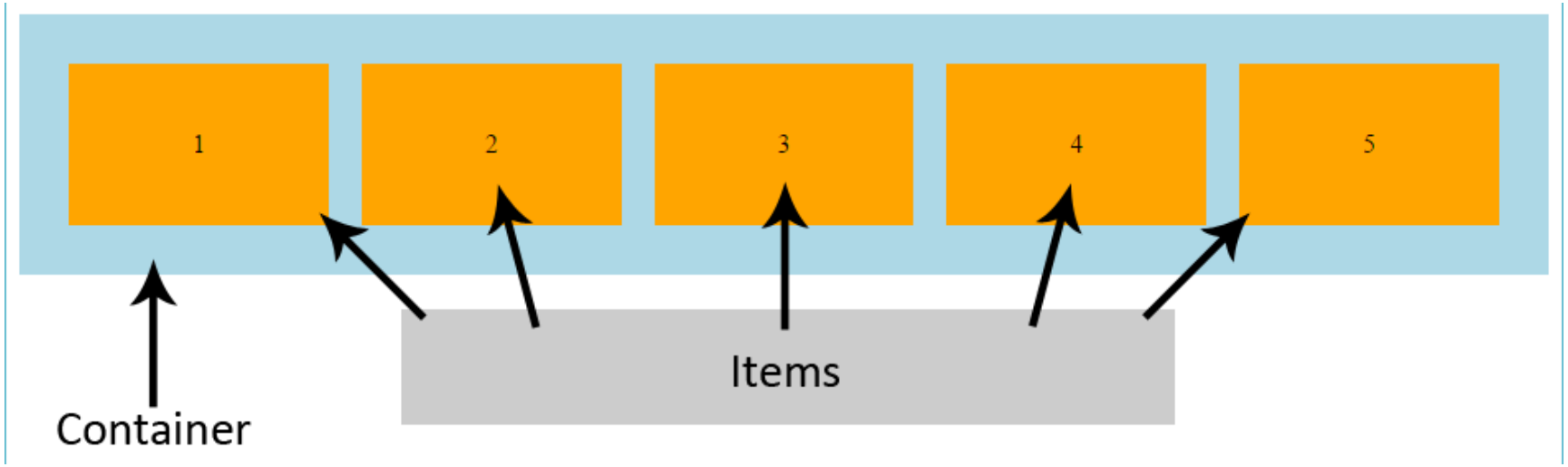
1/3	1/3	1/3

1/4	1/4	1/4	1/4

Full-height, even when my content doesn't fill the space.	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum mollis velit non gravida venenatis. Praesent consequat lectus purus, ut scelerisque velit condimentum eu. Maecenas sagittis ante ut turpis varius interdum. Quisque tellus ipsum, eleifend non ipsum id, suscipit ultricies neque.

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.



Om Flexbox

Fördelar

- Enkelt att anpassa elements storlek efter dess innehåll
- Enkelt att centrera element (vertikalt & horisontellt)
- Enkelt att sätta i vilken ordning som element ska visas

Nackdelar

- Dåligt stöd för äldre webbläsare, även ”nyare” versioner av IE (IE 11 har stöd)
- Svårt att bygga ”bra” layouter, mer för att strukturera innehåll

CSS Flexible Box Layout Module - CR

Method of positioning elements in horizontal or vertical stacks. Support includes all properties prefixed with `flex`, as well as `display: flex`, `display: inline-flex`, `align-content`, `align-items`, `align-self`, `justify-content` and `order`.

Usage % of all users ?

Global 96.71% + 1.74% = 98.45%

unprefixed: 96.57% + 1.28% = 97.85%

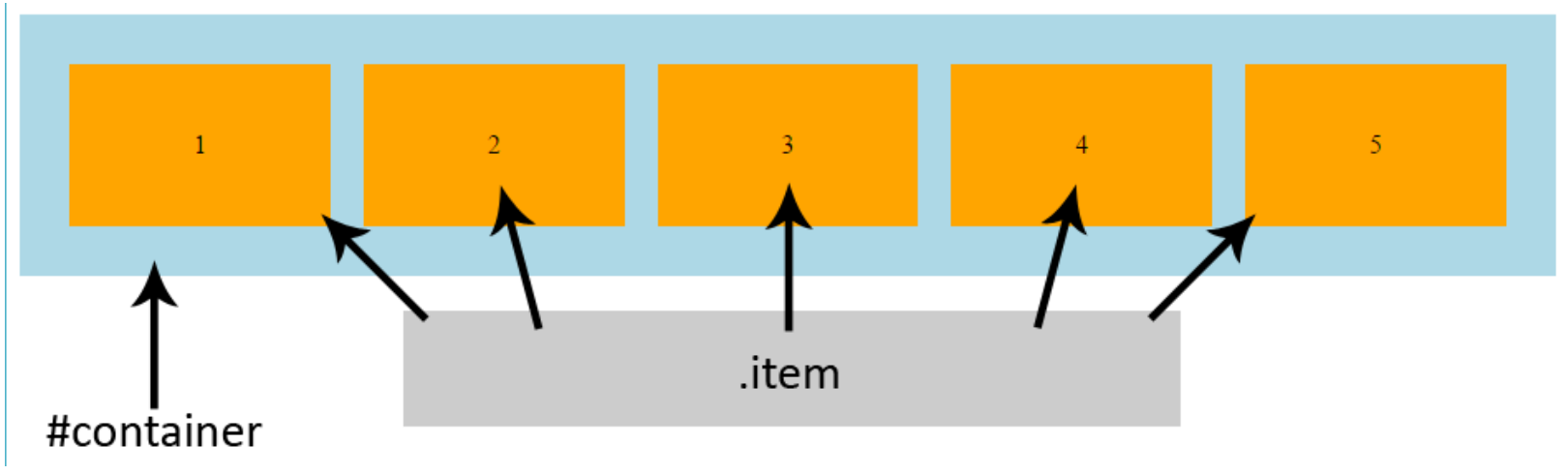
Current aligned | Usage relative | Date relative | Filtered | All

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Opera Mobile *	Chrome for Android	Firefox for Android	UC Browser for Android	Samsung Internet	QQ Browser	Baidu Browser	KaiOS Browser
					10-11.5											
		1 2-21	1 4-20	1 3.1-6	12.1	1 3.2-6.1										
6-9		3 22-27	21-28	6.1-8	15-16	7-8.4		1 2.1-4.3	12							
2 4 10	12-84	28-79	29-84	9-13	17-69	9-13.3		4.4-4.4.4	12.1				4-11.2			
4 11	85	80	85	13.1	70	13.7	all	81	46	85	79	12.12	12.0	10.4	7.12	2.5
		81-82	86-88	14-TP		14.0										

Vårt upplägg

```html
<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>
```

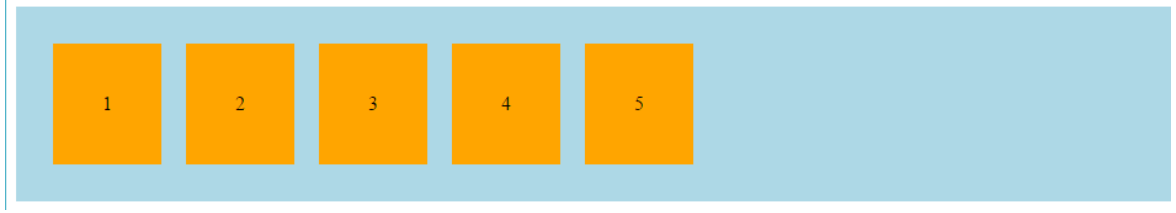
```css
#container{
    background-color: lightblue;
    padding: 20px;
    /* Egenskaper för flexbox */
    display: flex;
}

.item{
    text-align: center;
    background-color: orange;
    margin: 10px;
    padding: 40px;
}
```



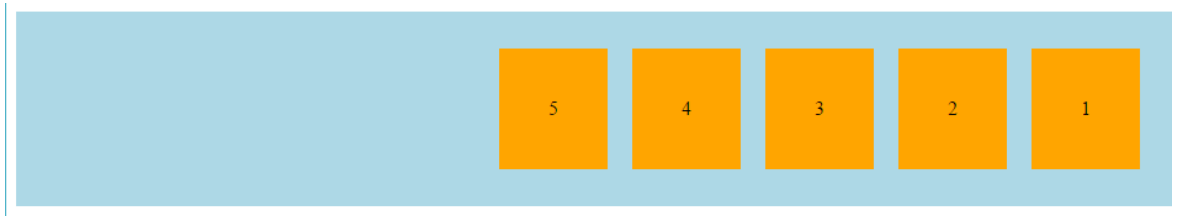
#container

flex-direction

- flex-direction: row; (standard)



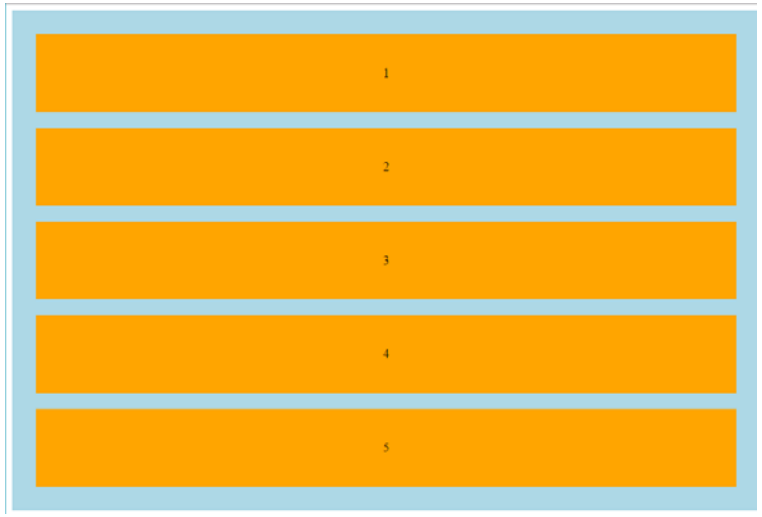
- flex-direction: row-reverse;



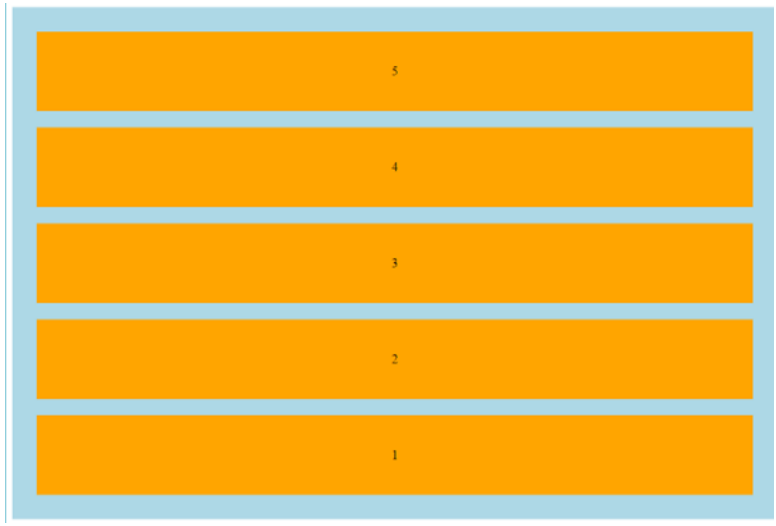
#container

flex-direction

flex-direction: column;



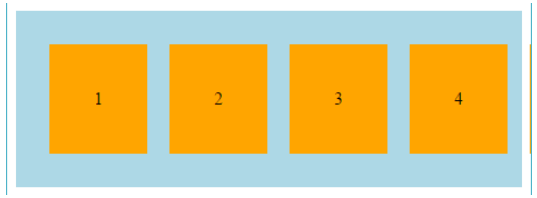
flex-direction: column-reverse;

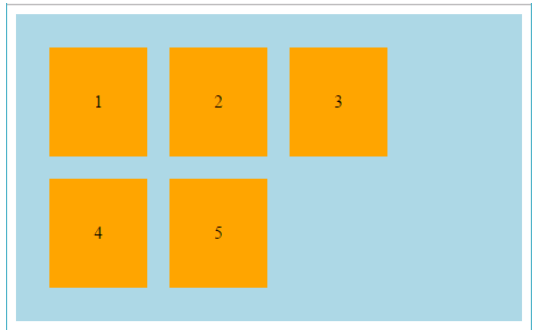


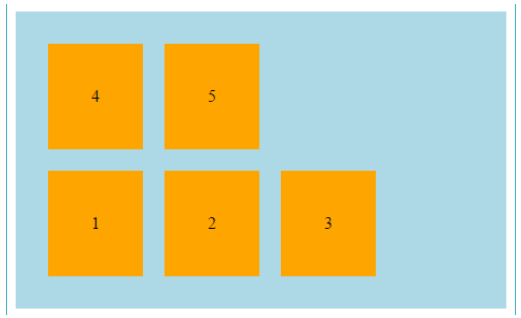
#container

- flex-wrap: nowrap; (standard) – Allt på samma rad
- flex-wrap: wrap;
- flex-wrap: wrap-reverse;

flex-wrap



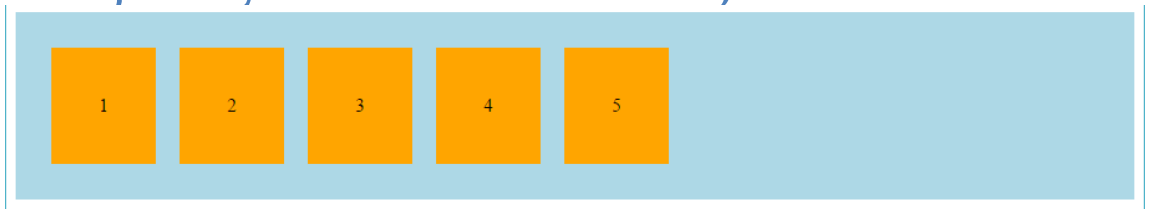




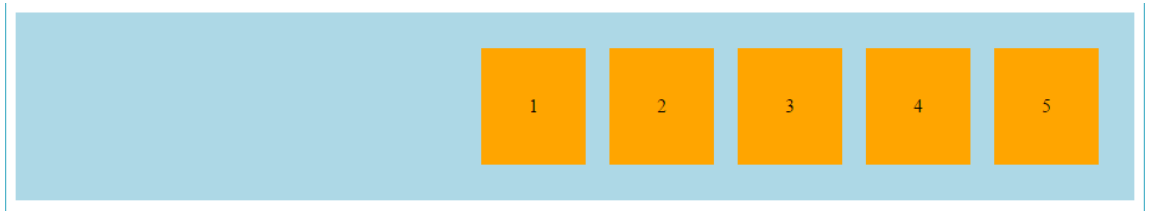
#container

justify-content

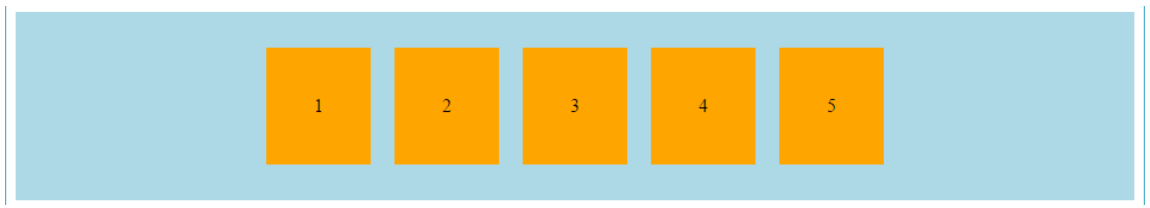
- justify-content: flex-start;



- justify-content: flex-end;



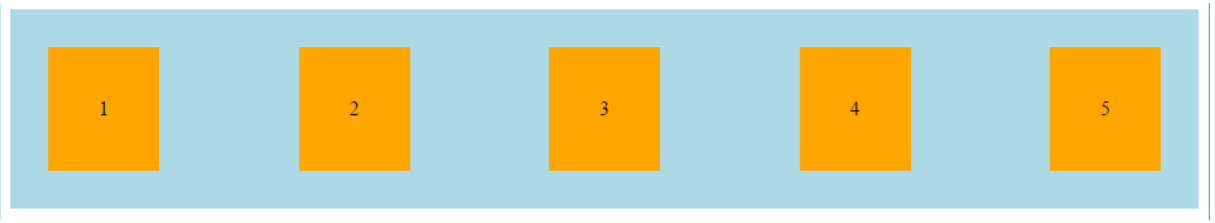
- justify-content: center;



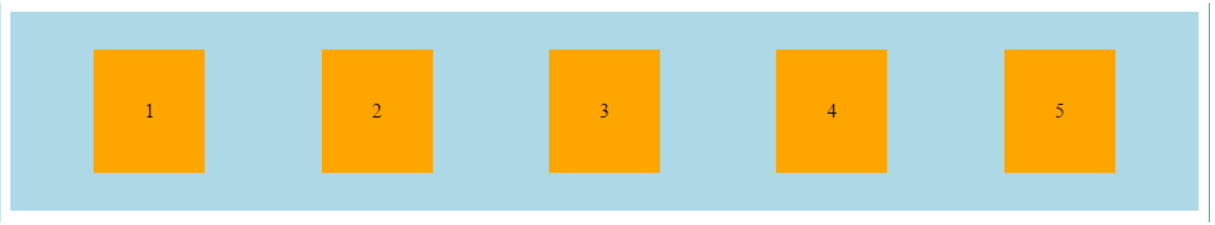
#container

justify-content

- justify-content: space-between;



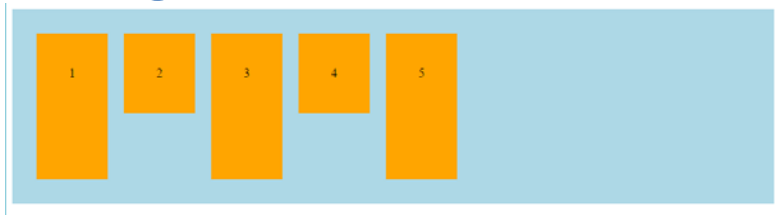
- justify-content: space-around;



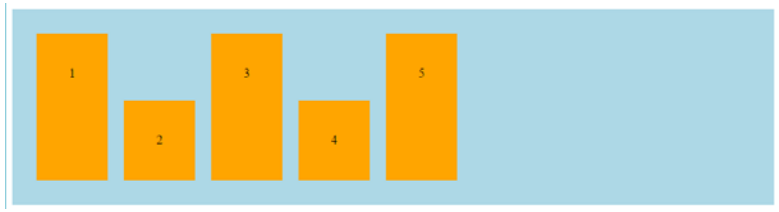
#container items

align-

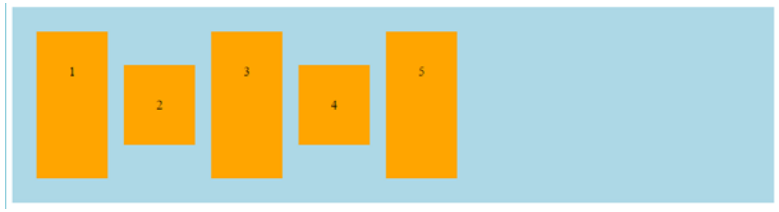
- align-items: flex-start; (standard)



- align-items: flex-end;



- align-items: center;

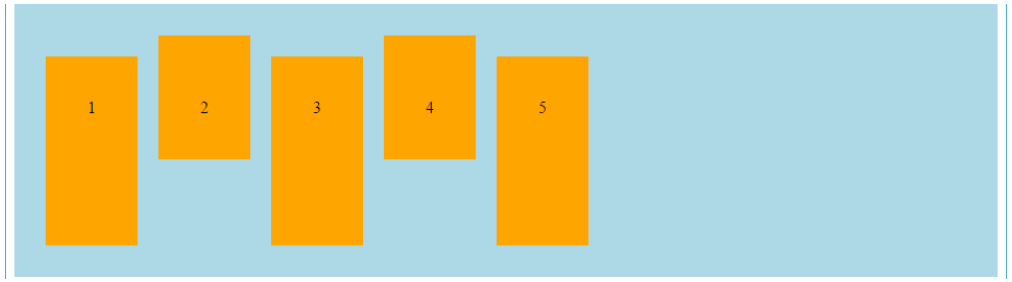



```css
#container{
    background-color: lightblue;
    padding: 20px;
    /* Egenskaper för flexbox */
    display: flex;
    align-items: flex-start;
}

.item{
    text-align: center;
    background-color: orange;
    margin: 10px;
    padding: 40px;
}

.item:nth-child(odd){
    height: 100px;
}
```

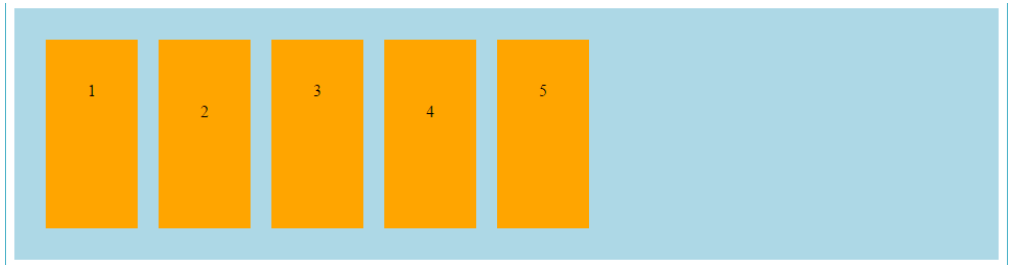
#container items

align-

- align-items: baseline;



- align-items: stretch;




```
#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;
}
```

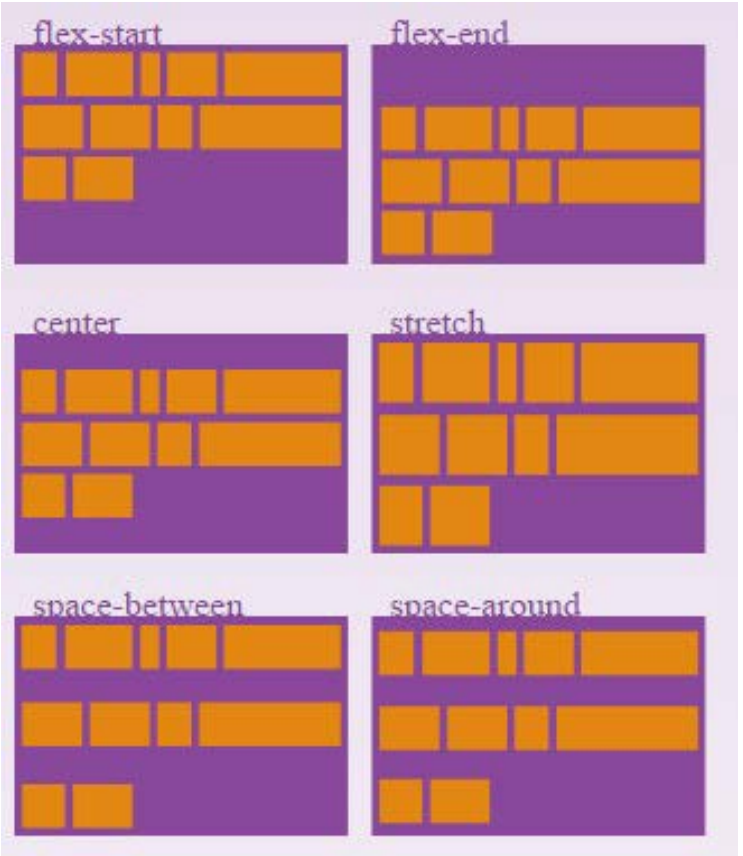
#container

align-content

- Används bara vid flera rader

.container { align-content: flex-start | flex-end | center | space-between | space-around | stretch; }

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



HUR MAN POSITIONERAR .ITEM

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

DEMO!

NYTT OCKSÅ: CSS-GRIDS

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

commendation

W3C Ca

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1.1.1 Adapting Layouts to Available Space
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CSS Grid Layout Module Level 1

277 Tests

W3C Candidate Recommendation, 09 May 2017

This version:
https://www.w3.org/TR/2017/CR-css-grid-1-20170509/

Latest publishedversion:
https://www.w3.org/TR/css-grid-1/

Editor's Draft:
https://drafts.csswg.org/css-grid/

Previous Versions:
https://www.w3.org/TR/2017/CR-css-grid-1-20170209/
https://www.w3.org/TR/2016/WD-css-grid-1-20160519/
https://www.w3.org/TR/2015/WD-css-grid-1-20150917/
https://www.w3.org/TR/2015/WD-css-grid-1-20150806/
https://www.w3.org/TR/2015/WD-css-grid-1-20150317/
https://www.w3.org/TR/2014/WD-css-grid-1-20140513/
https://www.w3.org/TR/2014/WD-css-grid-1-20140123/
https://www.w3.org/TR/2013/WD-css3-grid-layout-20130402/
https://www.w3.org/TR/2012/WD-css3-grid-1a yout-20121106/

Test Suite:
http://test.csswg.org/suites/css-grid-1 dev/nightly-unstable/

IssueTracking:
Disposition of Comments
Inline In Spec
GitHub Issues

CSS Grid Layout (level 1) - CR

Method of using a grid concept to lay out content, providing a mechanism for authors to divide available space for layout into columns and rows using a set of predictable sizing behaviors. Includes support for all `grid-*` properties and the `fr` unit.

Usage % of all users ?

Global 93.84% + 1.28% = 95.12%

unprefixed: 93.84%

Current aligned | Usage relative | Date relative | Filtered | All

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Opera Mobile *	Chrome for Android	Firefox for Android	UC Browser for Android	Samsung Internet	QQ Browser	Baidu Browser	KaiOS Browser
		2-39	4-28													
		3 40-51	1 29-56		10-27											
6-9	2 12-15	4 52-53	4 57	3.1-10	1 28-43	3.2-10.2							4-5.4			
2 10	16-84	54-79	58-84	10.1-13	44-69	10.3-13.3		2.1-4.4.4	12-12.1				6.2-11.2			
2 11	85	80	85	13.1	70	13.7	all	81	46	85	79	12.12	12.0	10.4	7.12	2.5
		81-82	86-88	14-TP		14.0										

YOU ARE
THE CSS
TO MY
HTML