



Layout

Colour

Typography

Imagery

5 Points to remember
The size of the container and the size of the content are determined by the container's width and height. The content's width and height are determined by the container's width and height.

Style with CSS



CSS Syntax



Creating style blocks



Create and Apply Rules



Point and Apply Rules



Syntax



CSS & HTML

IDs & Classes

Layout

The Box Model

Box Model



Block Layout

Flow Layout

Positioning

Floating

Flooding and Positioning

Box Model Properties

5 Points to remember
The size of the container and the size of the content are determined by the container's width and height. The content's width and height are determined by the container's width and height.

Link Selector



Value and Units



Link Selector



Link Selector



Link Selector



Link Selector



Link Selector



Link Selector



Link Selector



Box Model

Box Model

CM2003
Dynamic Web
Programming

Lecture 3

Information Presentation

Overview

Good & Bad Design
Elements of Web Design
Layout and Composition
Colour
Typography
Imagery
Presentation in CSS

Good & Bad Design



Good/Bad Design

What do we mean? objective or subjective?

- Ergonomics
- information access & efficiency
- Aesthetics
- visual impact and appeal

Must appeal to both
users are pleased by design, but drawn in
by content



[**Home**](#) [**Poetry**](#) [**Feature Articles**](#) [**Reviews**](#) [**Publications**](#)
[**E Magazine**](#) [**Archives**](#) [**Links**](#)

BARRY TEBB'S MENTAL HEALTH BLOG SITE

Barry Tebb's wonderful day-glo Sixties Press productions keep the Apocalyptic flame alive. - JAMES KEERY

Barry Tebb at Haworth



Barry Tebb's manuscripts are in Leeds University's Brotherton Library Special Collections Archive.

ACADEMIC BOOKS BOUGHT

SMALL COLLECTIONS TO LIBRARIES

GREATER LONDON AND SURREY

ABBEY BOOKS

Phone 02086412212

Sixties Press

have published the following

Times Online January 17, 2007

Small press funding

Sir, – For months I have awaited (along with the entire small press world) the annual call for submissions for the Raymond Williams Prize (£3.000 to the

Reviews



@momentumhq

about method work contact blog

momentum

We are a small but perfectly formed web design studio.

Who we are

A team of design lovers with a special way of doing things.

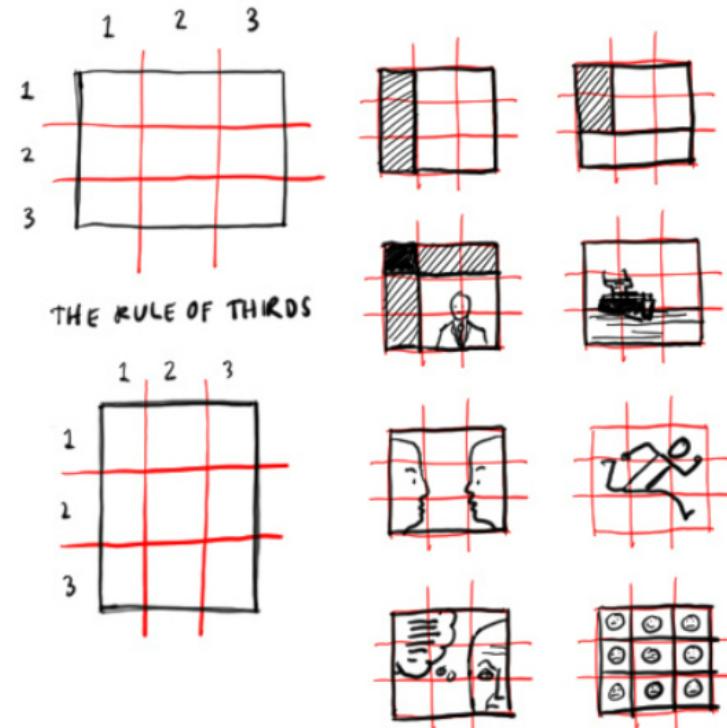
Our work

We love what we do and we believe it shines through in the results.

Our location

South east of the UK, a mere stones throw away from London.

Layout and Composition



Single Column Layout

Header

Navigation

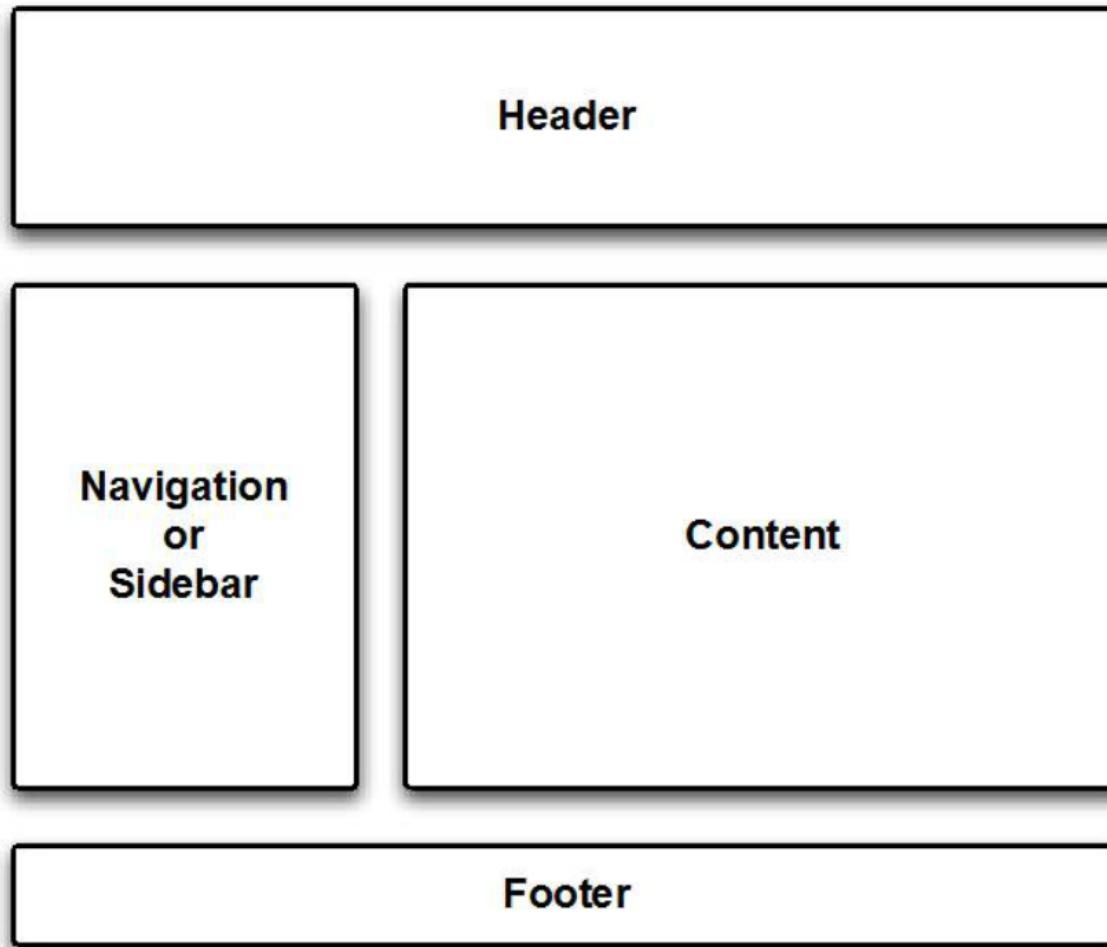
Content

Footer

Single
vertical
column

-common in
blogs and
mobile sites

Two Column Layout

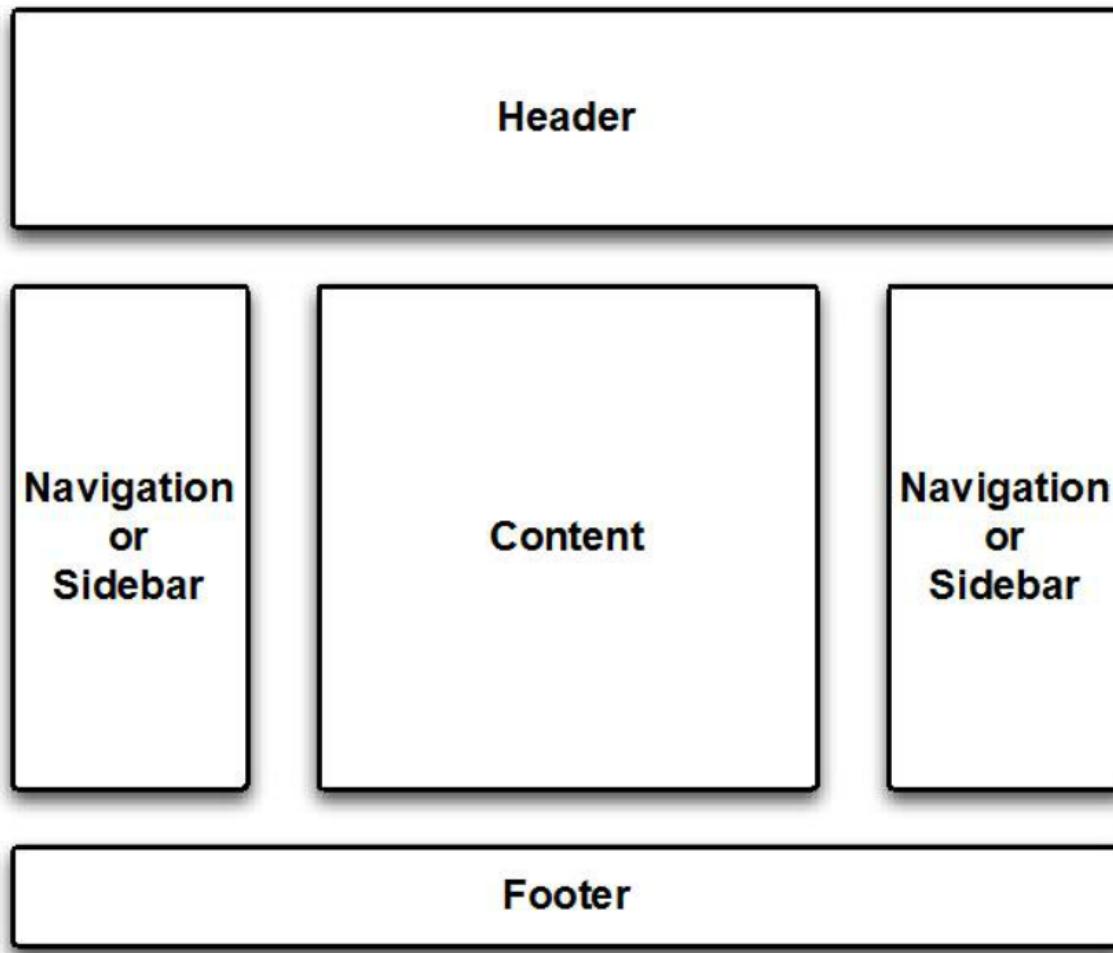


Still has a
vertical
structure

side bar
usually for
navigation.

Again
common in
blogs

Three Column Layout



Not necessarily vertical flow

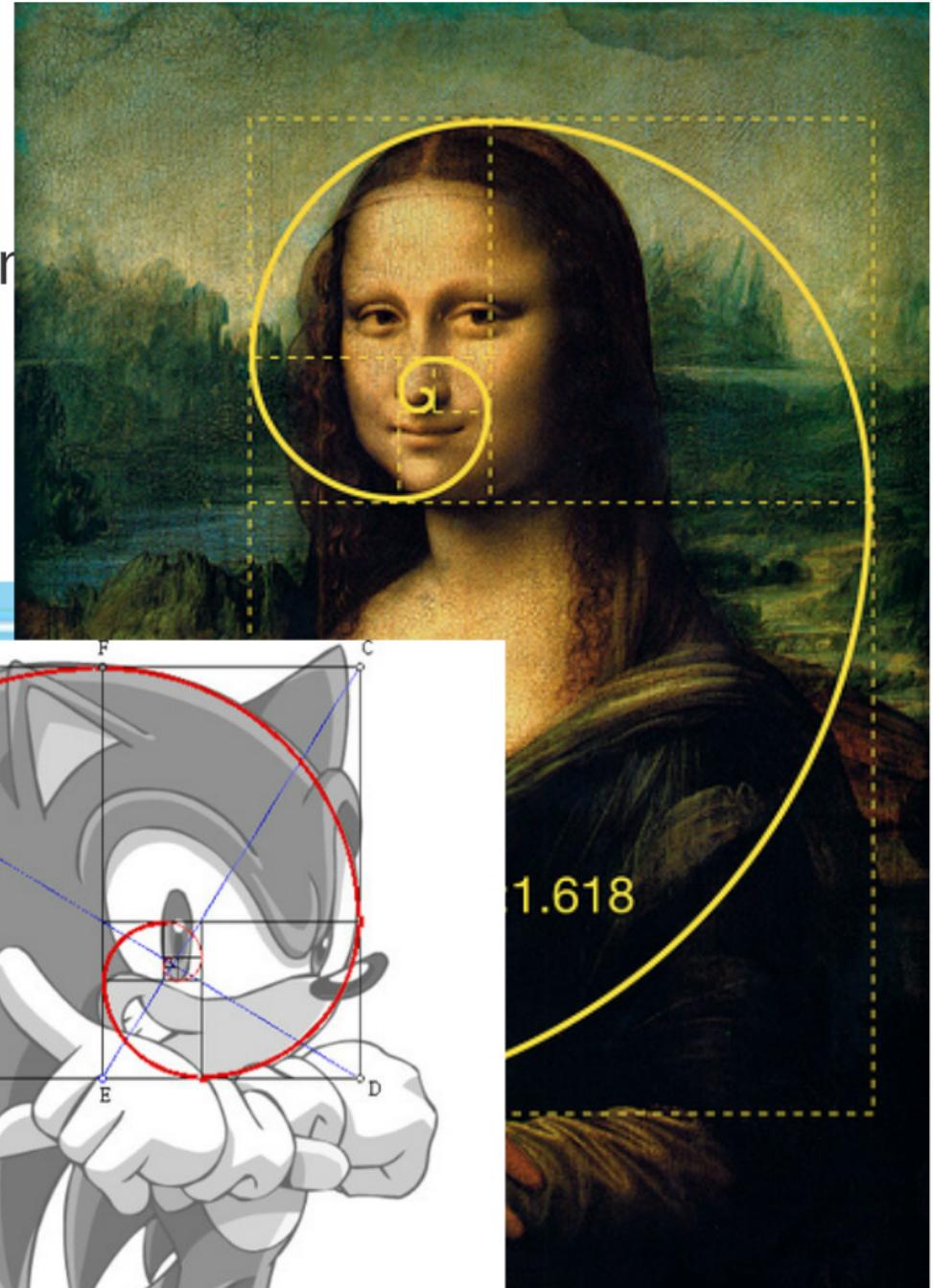
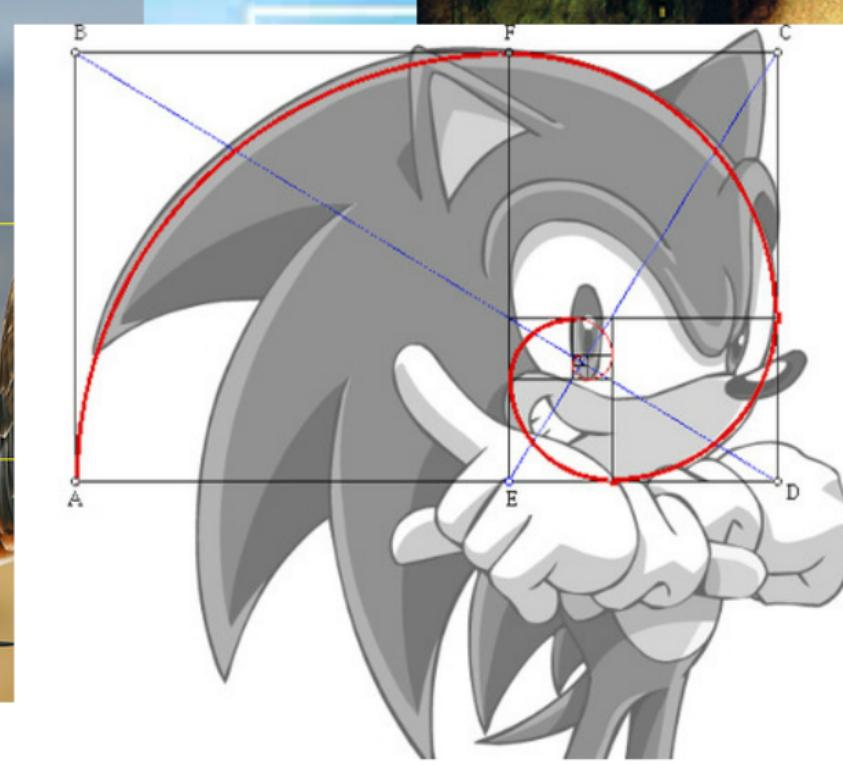
one side bar usually for navigation.

The other for highlighted content

Grid Theory

Commonly found proportion
in nature

Golden ratio
aesthetically pleasing



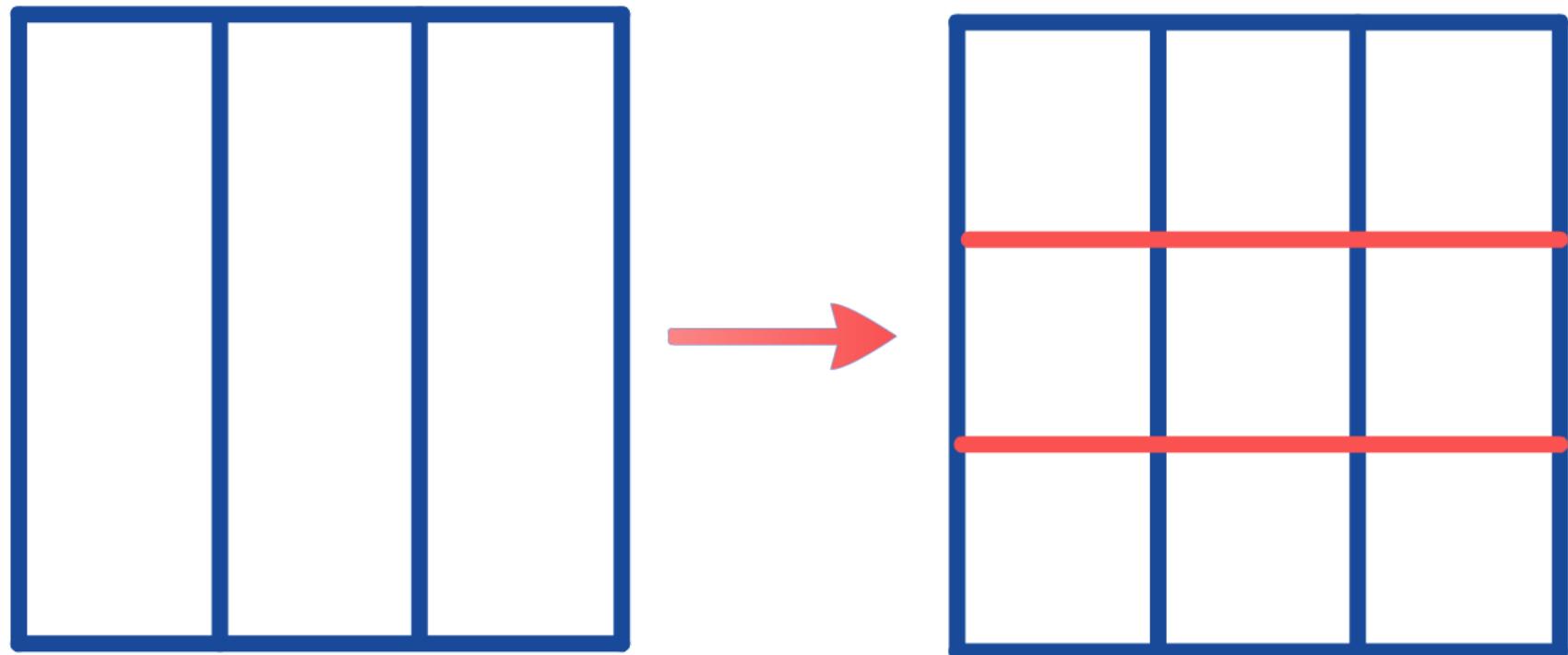
Grid Theory

- Divide scene into thirds
- Pleasing to the eye
- Helps composition



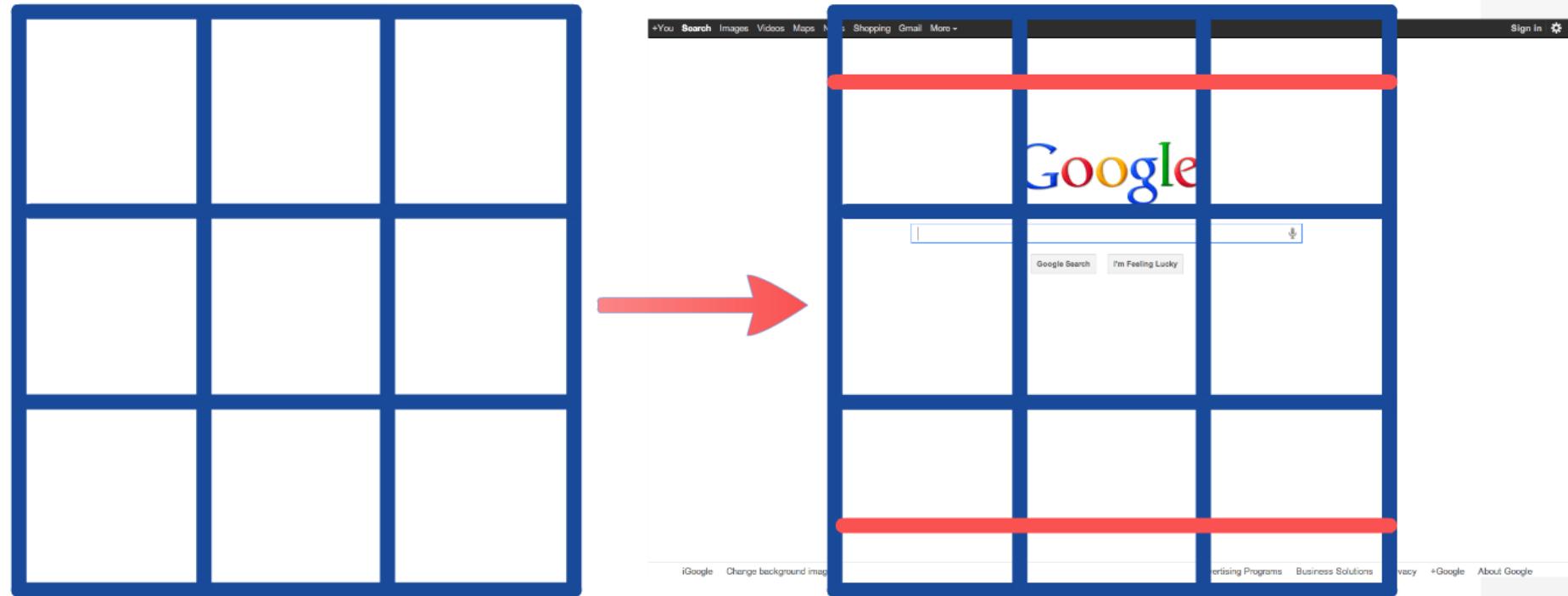
Grid Theory

Start dividing a box into thirds, vertically and horizontally



Grid Theory

Continue dividing by thirds, and also by half as well to create more grid cells



Balance

balance: symmetry of elements

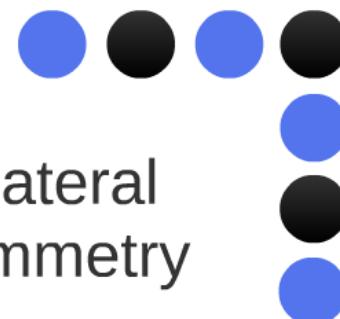
(a)symmetry; bilateral & radial symmetry



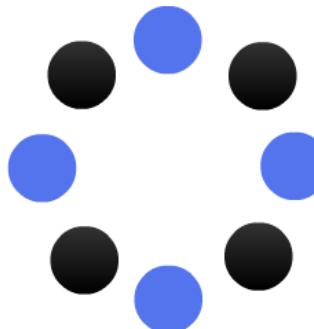
symmetrical



asymmetrical



bi-lateral
symmetry



radial
symmetry

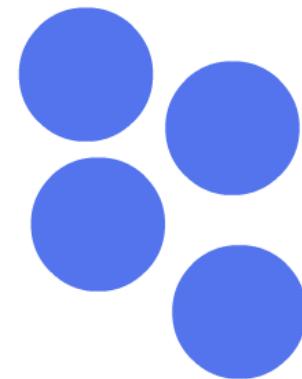
Unity

Unity: how elements interact with each other

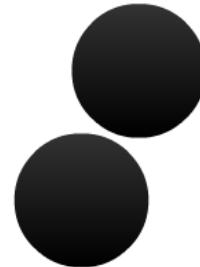
proximity
repetition



Repetition

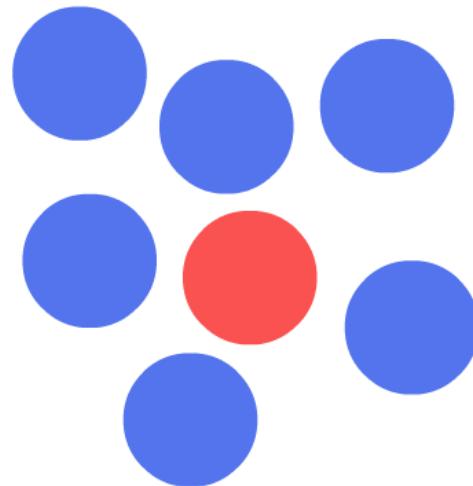


Proximity

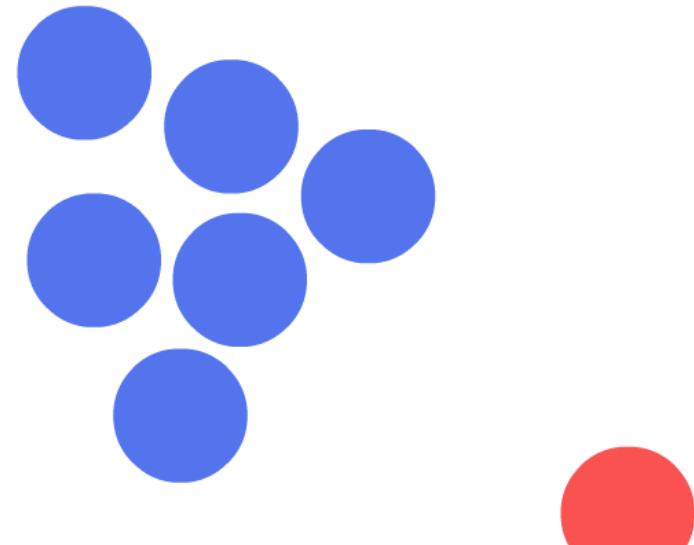


Emphasis

Dominance of elements and user attention
placement
isolation
contrast
proportion



contrast



isolation

Colour

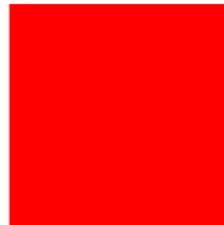


Colour

Colour provokes an emotional response and can be used to good or bad effect in design

- Colour Associations
- Colour Temperature
- Colour Combinations

Colour Associations



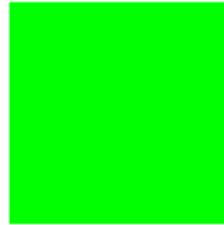
Red is exciting, dramatic, passionate, dangerous



Orange is exciting, warm, happy, informal



Yellow is active, visible, happy, overpowering



Green is natural, growth, fresh, hope

Colour Associations

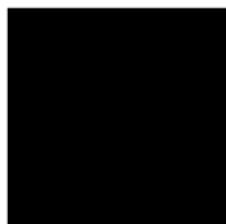


Purple is regal, powerful, extravagant



Blue is calm, open, intelligent, sad

White is light, pure, perfect



Black is power, elegance, strength

Colour Temperatures



Association with warmth, sun, fire, summer

Will 'pop' when contrasted with cool colours

Colour Temperatures



Cool Colors

Association with calm, reducing tension

Will ‘recede’ so good for backgrounds

Colour Combinations

Monochromatic
Analogous
Complementary
Triadic

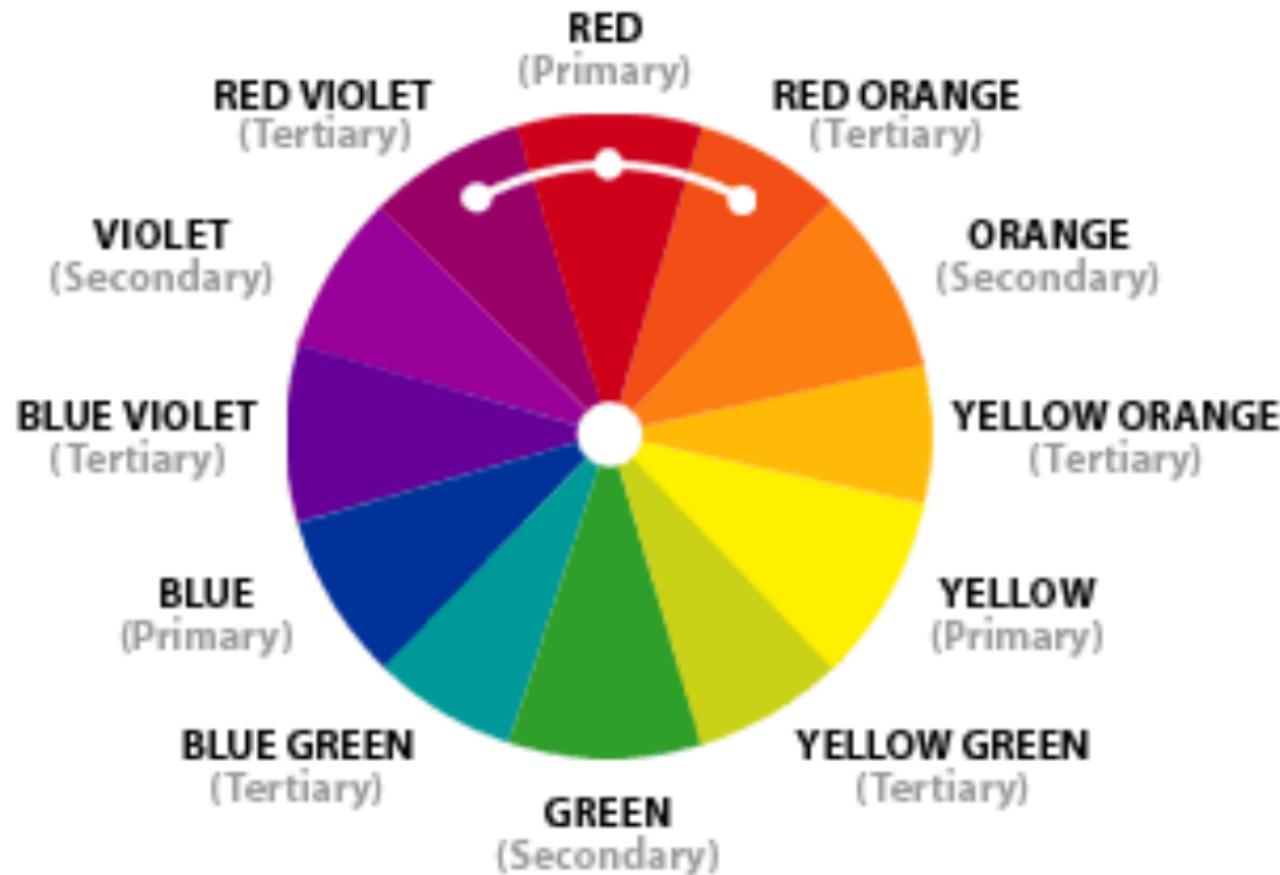
Monochromatic

Monochromatic



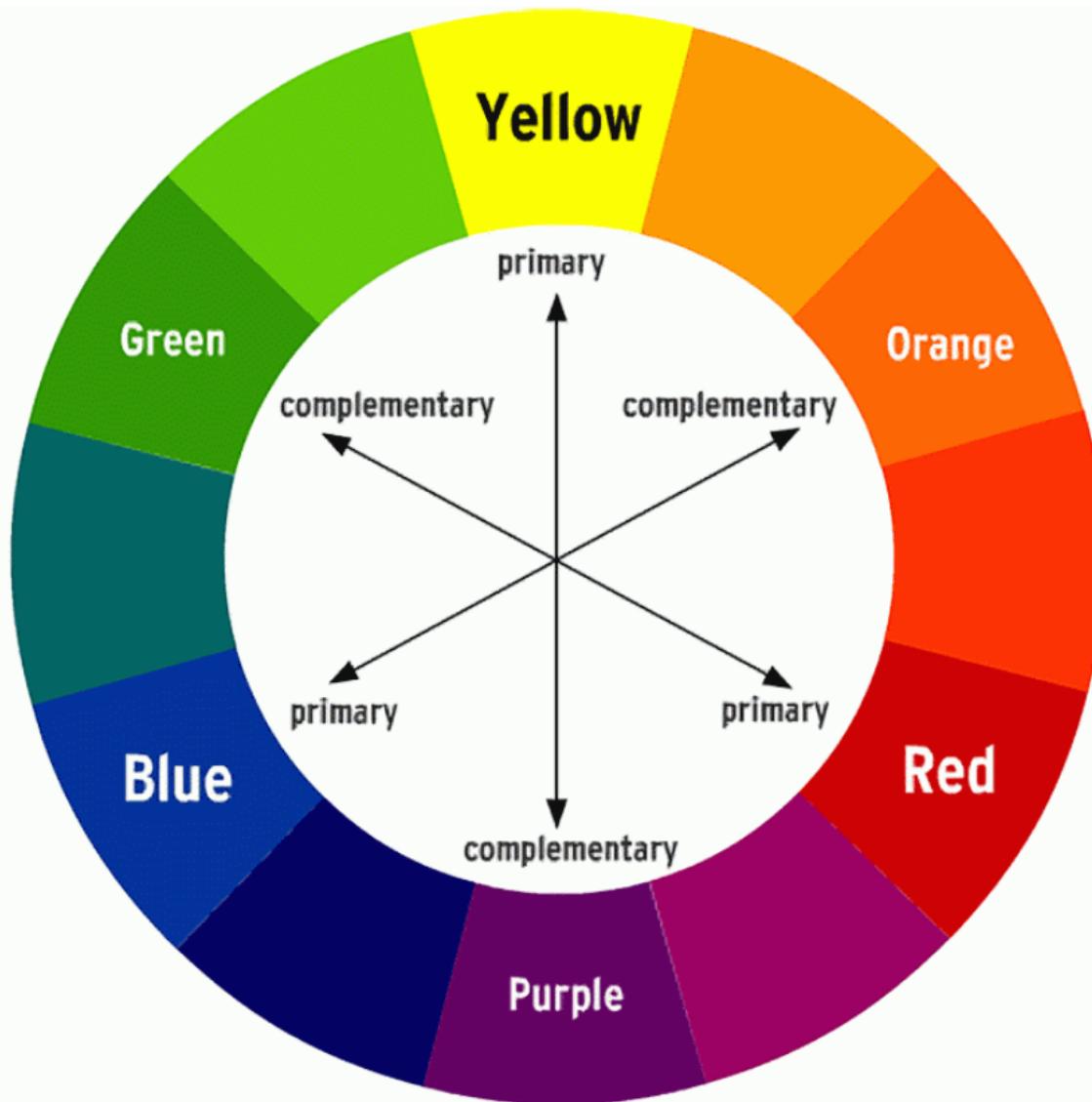
Different
Shades of
the same
colour

Analogous



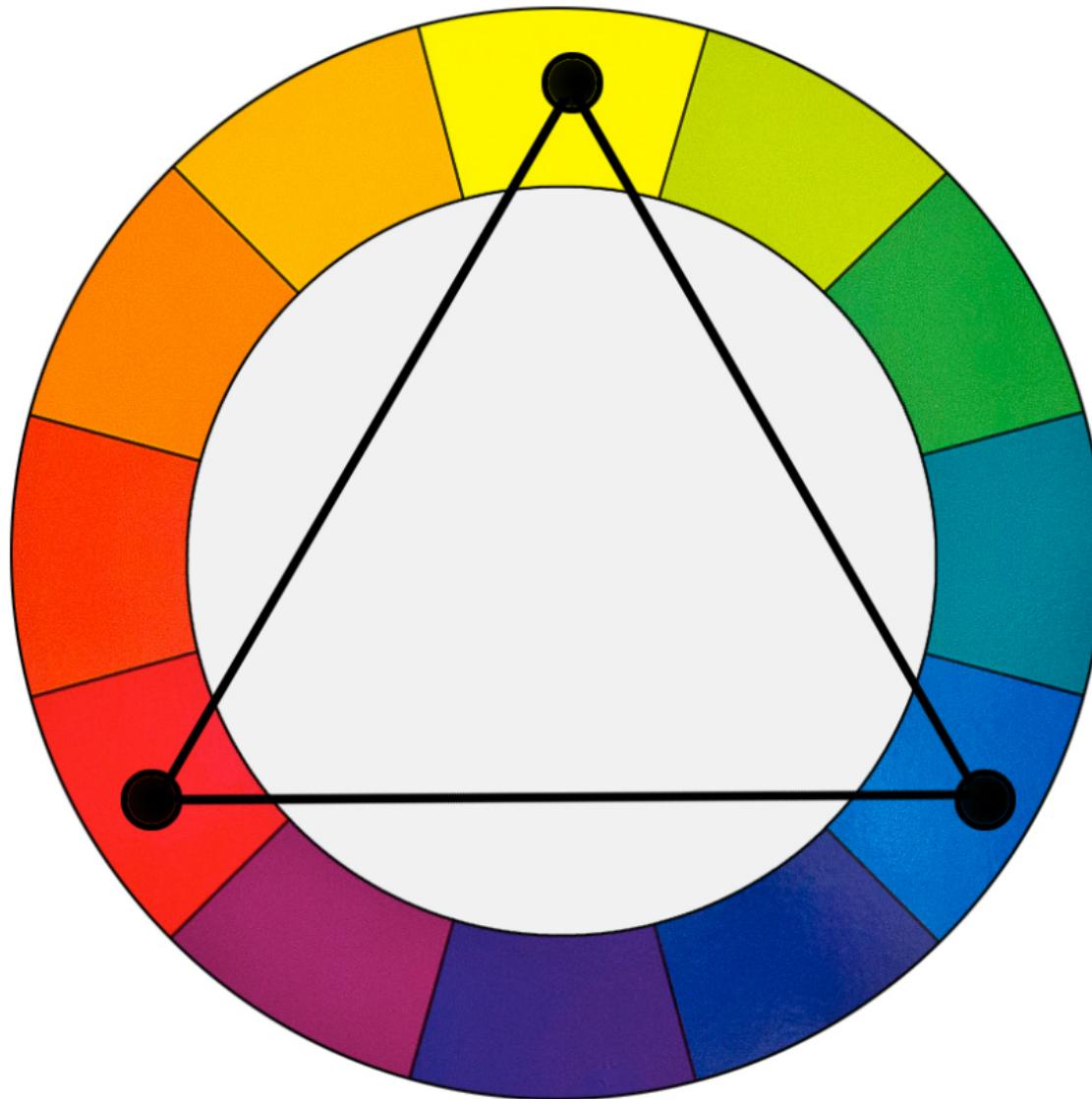
Colours beside each other on the wheel

Complementary



Colours directly opposite each other on the wheel

Triadic



Colours
equally
spaced
around the
wheel

www.colorlovers.com

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NEW **MOST LOVED** MOST VIEWS MOST COMMENTS MOST FAVORITES

Browse Palettes

DAY WEEK MONTH ALL

| | | |
|---|--|--|
| Giant Goldfish 4576 LOVES 560 COMMENTS | Thought Provoking 3536 LOVES 301 COMMENTS | (• “•) 2899 LOVES 268 COMMENTS |
| cheer up emo kid 2665 LOVES 191 COMMENTS | Adrift in Dreams 2168 LOVES 306 COMMENTS | let them eat cake 2089 LOVES 224 COMMENTS |

<https://color.adobe.com/create/color-wheel/>



Typography

IF YOU'RE
HAVING FONTS
PROBLEMS I
FEEL BAD FOR
YOU SON, I GOT
99 FONTS BUT
COMIC SANS
AIN'T ONE.

A very geeky subject

A quick fix

The diagram illustrates the vertical structure of the text "A quick fix" using red numbers and arrows:

- Number 1 points to the baseline under the letter "A".
- Number 2 points to the top of the ascender on the letter "A".
- Number 3 points to the bottom of the descender on the letter "A".
- Number 4 points to the baseline under the letter "q".
- Number 5 points to the top of the ascender on the letter "q".
- Number 6 points to the baseline under the letter "u".
- Number 7 points to the baseline under the letter "i".
- Number 8 points to the top of the ascender on the letter "i".
- Number 9 points to the bottom of the descender on the letter "i".
- Number 10 points to the top of the dot on the letter "i".
- Number 11 points to the baseline under the letter "k".
- Number 12 points to the top of the ascender on the letter "k".
- Number 13 points to the baseline under the letter "f".
- Number 14 points to the top of the ascender on the letter "f".
- Number 15 points to the bottom of the descender on the letter "x".

Safe Fonts for the Web

Web safe fonts

Times New Roman Georgia

Times

Palatino Linotype

Book Antiqua

Palatino

Impact
Charcoal

Courier New
Courier

Lucida Console
Monaco

Arial Black
Gadget

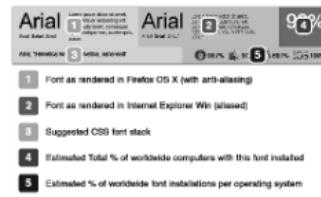
Arial
Helvetica

Trebuchet MS

Comic Sans MS

Lucida Sans Unicode
Lucida Grande

Web Safe Fonts Cheat Sheet v.3



| @font-face Fonts (That are good and free) | |
|---|-----------------|
| Download fonts and generate OTF at Font Squirrel: http://www.fontsquirrel.com | |
| UDimidat | Gentium |
| Aller | Graublau Web |
| Anivers | Greyscale Basic |
| Chunk Five | Junction |
| Delicious | Kontrapunkt |
| Diavo | M+ M+ M+ |
| Existence Light | Miso |
| Fertigo | Prociono |
| Fontin | Quicksand |
| Fontin Sans | Titillium Text |

| Google API Fonts (That look okay when aliased) | |
|--|-------------------|
| Google Font Directory: http://fonts.googleapis.com/ | |
| Arovo | Droid+Serif |
| Arimo | Molengo |
| Cardo | Tinos |
| Coda:800 | Vollkorn |
| Droid+Sans | Yanone+Kaffeesatz |

| Microsoft Office Fonts | |
|--|------------------------|
| Present on all versions of Office Mac/Win since 2003 Installed on 80% of all business/computer PCs, 60% computers worldwide | |
| Garamond | Gill Sans |
| Baloo Tukta Old Face | Imperial MT Shadow |
| Baskerville | Lucida Bright |
| Bethive ST Condensed | Lucida Sans Typewriter |
| Book Antiqua | Modena No. 90 |
| Calisto MT | Rockwell |
| Cooper Black | Rockwell Extra Bold |
| COPPERPLATE GOTHIQUE BOLD | |
| COPPERPLATE GOTHIQUE LIGHT | |

'Web Safe Font Cheat Sheet' created by James Brockhurst for MightyMeta
Released under a Creative Commons Attribution Non-Commercial Share Alike 3.0 Unported License. <http://creativecommons.org/licenses/by-nc-sa/3.0/>
Font data provided by Google Fonts. <http://www.google.com/fonts>
Data compiled in December 2011.

For more info visit www.mightymeta.co.uk

Image Typography

One solution is to make an image of a non-web safe font
Often used in page headers



Please, please test before you release it!

Imantheme

Pages Categories Depth Advanced Menu Description



We Work Efficiently

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam nec rhoncus risus. In utrices taciturnum, posuere faucibus velit



24/7 Live Support

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam nec rhoncus risus. In utrices taciturnum, posuere faucibus velit



Confide

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam nec rhoncus risus. In utrices taciturnum, posuere faucibus velit



Guarantee Like No Other

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam nec rhoncus risus. In utrices taciturnum, posuere faucibus velit

We don't read every word individually.

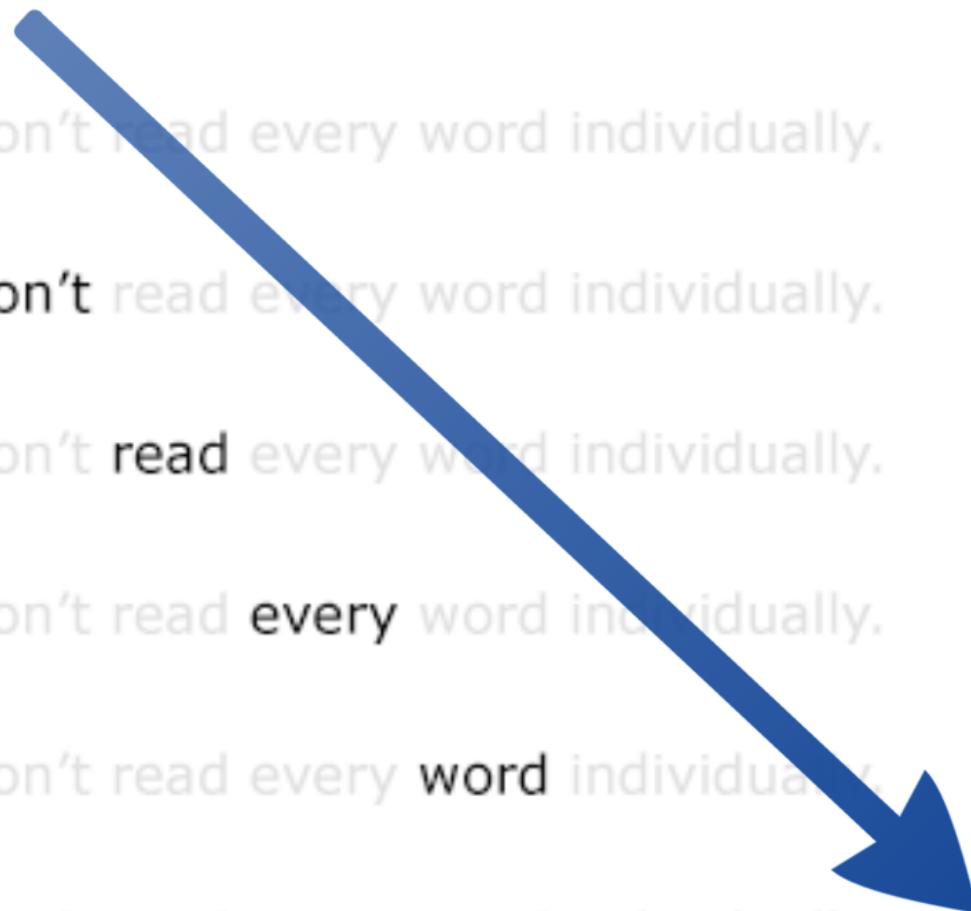
We **don't** read every word individually.

We don't **read** every word individually.

We don't read **every** word individually.

We don't read every **word** individually.

We don't read every word **individually**.



We don't read every word individually.



We don't read every word individually.



We don't **read** every word individually.



We don't read **every** word individually.



We don't read every **word** individually.



We don't read every word **individually**.





We don't read every word individually.
People fixate on certain words and fill in the rest.



We don't read every word individually.
People fixate on certain words and fill in the rest.



We don't read every word individually.
People fixate on certain words and fill in the rest.



We don't read every word individually.
People fixate on certain words and fill in the rest.



We don't read every word individually.
People fixate on certain words and fill in the rest.

Aoccdrnig to a rscheearch at Cmabrigde Uinervtisy, it
dseno't mtaetr in waht oerdr the Itteres in a wrod are,
the olny iproamtnt tihng is taht the frsit and lsat Itteer be
in the rghit pclae.

The rset can be a taotl mses and you can sitll raed it
whotuit a pboerlm. Tihs is bcuseae the huamn mnid
deos not raed ervey lteter by istlef, but the wrod as a
wlohe.

Azanmig hhu? Yaeh, and I awlyas tghuhot slpeling was
ipmorantt!

Imagery





By JOHN GRUBER

AAPL \$500 ★

Ajay Makan and Dan McCrum, reporting for The Financial Times:

The technology group's success has also given a healthy glow to corporate America. Were Apple's results stripped out, Barclays Capital estimates earnings growth at S&P 500 companies that have reported fourth-quarter results would be 2.9 per cent rather than 7 per cent.

ARCHIVE

MEMBERSHIP

PROJECTS

CONTACT

COLOPHON

RSS FEED

SPONSORSHIP

Apple: Fair Labor Association Begins Inspections of Foxconn ★

Apple PR:

Apple today announced that the Fair Labor Association will conduct special voluntary audits of Apple's final assembly suppliers, including Foxconn factories in Shenzhen and Chengdu, China, at Apple's request. A team of labor rights experts led by FLA president Auret van Heerden began the first inspections Monday morning at the facility in Shenzhen known as Foxconn City.

No images, but looks ok?

craigslist

uk

[post to classifieds](#)

[my account](#)

[help, faq, abuse, legal](#)

[search craigslist](#)

[for sale](#)



event calendar

| M | T | W | T | F | S | S |
|----|----|----|----|----|----|----|
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |

[avoid scams & fraud](#)

[personal safety tips](#)

[craigslist blog](#)

[craigslist factsheet](#)

[best-of-craigslist](#)

[craigslist TV](#)

[craigslist movie & dvd](#)

[craigslist foundation](#)

[craigconnects](#)

[custom static](#)

london

w

community

activities local news
artists lost+found
childcare musicians
classes pets
events politics
general rideshare
groups volunteers

housing

apts / housing
housing swap
housing wanted
office / commercial
parking / storage
real estate for sale
rooms / shared
sublets / temporary
vacation rentals

jobs

accounting+finance
admin / office
arch / engineering
art / media / design
biotech / science
business / mgmt
customer service
education
food / bev / hosp
general labor
government
human resources
internet engineers
legal / paralegal
manufacturing
marketing / pr / ad
medical / health
nonprofit sector
real estate
retail / wholesale
sales / biz dev
salon / spa / fitness
security

for sale

antiques appliances
baby+kids arts+crafts
barter auto parts
bikes beauty+hlth
boats cars+trucks
books cds/dvd/vhs
business cell phones
computer clothes+acc
free collectibles
general electronics
household farm+garden
jewelry furniture
materials garage sale
rvs motorcycles
sporting music instr
tickets photo+video
tools toys+games
wanted video gaming

aberdeen
belfast
birmingham
brighton
bristol
cambridge
cardiff / wales
devon / cornwall
east anglia
east midlands
edinburgh
glasgow
hampshire
leeds
liverpool
london
manchester
newcastle
oxford
sheffield

europe

us/ca

cl worldwide

No images, not so ok?

Practical Concerns

Image Size

- strike a balance with file-size and quality
- effects load times
-

Image Format

- jpg, png, gif
- suited to different purposes
-

Image Resolution

- higher pixel counts will be more appealing but must be worth the load time

Bigger is better right?



$1366 \times 768 = 146K$



$800 \times 450 = 80K$



$100 \times 57 = 16K$



$200 \times 133 = 27K$

Jpeg Compression



Original (12) - 157Kb



4 - 47Kb



Quality setting 12 - 0



7 - 58Kb



0- 32Kb

in photoshop 0-12 but
may be as a % in
other apps

I AM NOW

A close-up photograph of a brown and white cat sitting inside a cardboard airplane. The cat is positioned in the fuselage, with its head near the front window and its body extending towards the tail. The cardboard plane has a blue and red striped pattern on the side. The background shows a kitchen counter with a sink and some dishes.

Jpeg Compression



Original (12) - 157Kb



4 - 47Kb



Quality setting 12 - 0



7 - 58Kb



0- 32Kb

in photoshop 0-12 but
may be as a % in
other apps

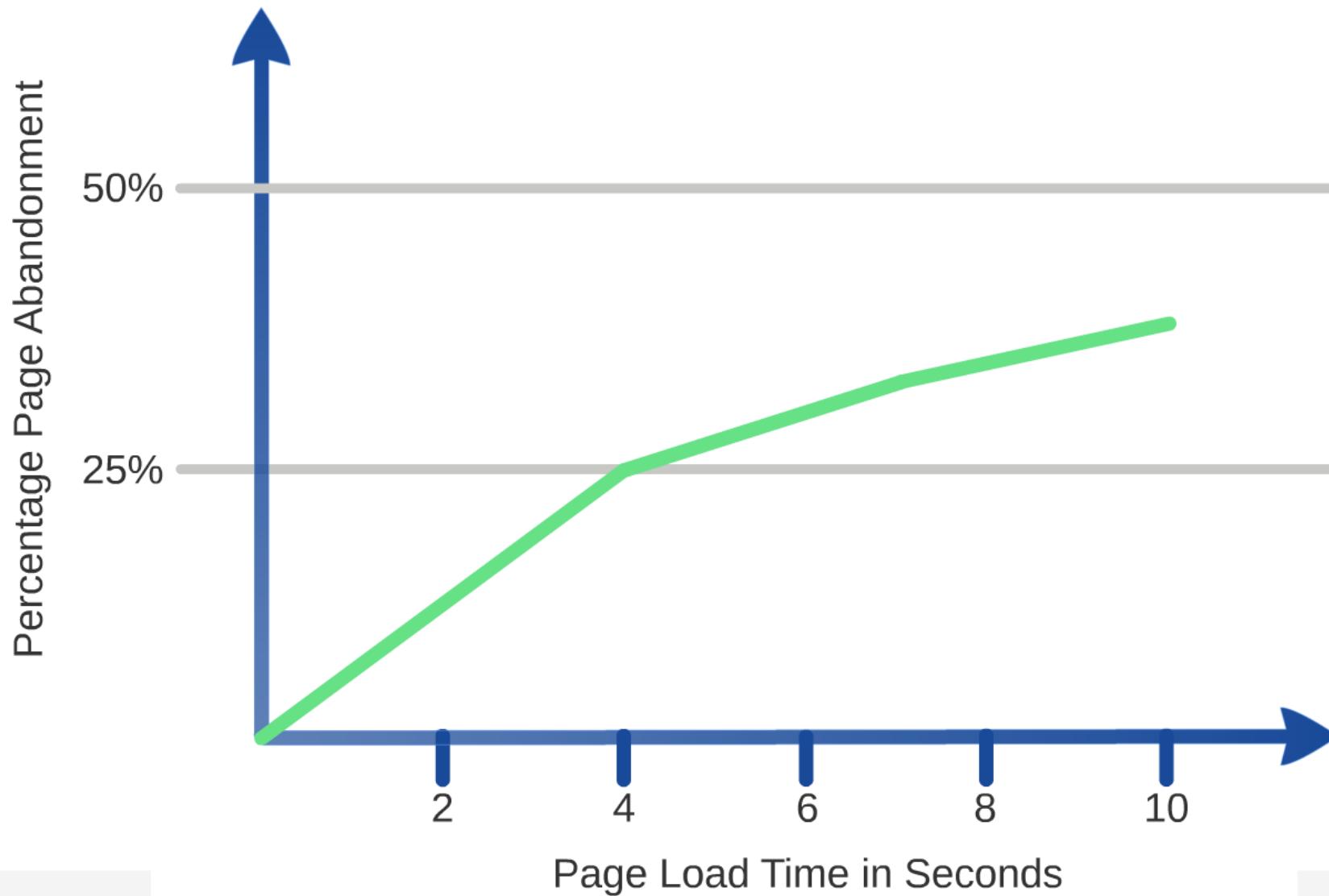
Ok So what

The only reason you need to care about any of this is because of **page load times**

The larger your images are, and the more you have, the longer the load time

Size could also be an issue on **mobile devices**

Ok So what

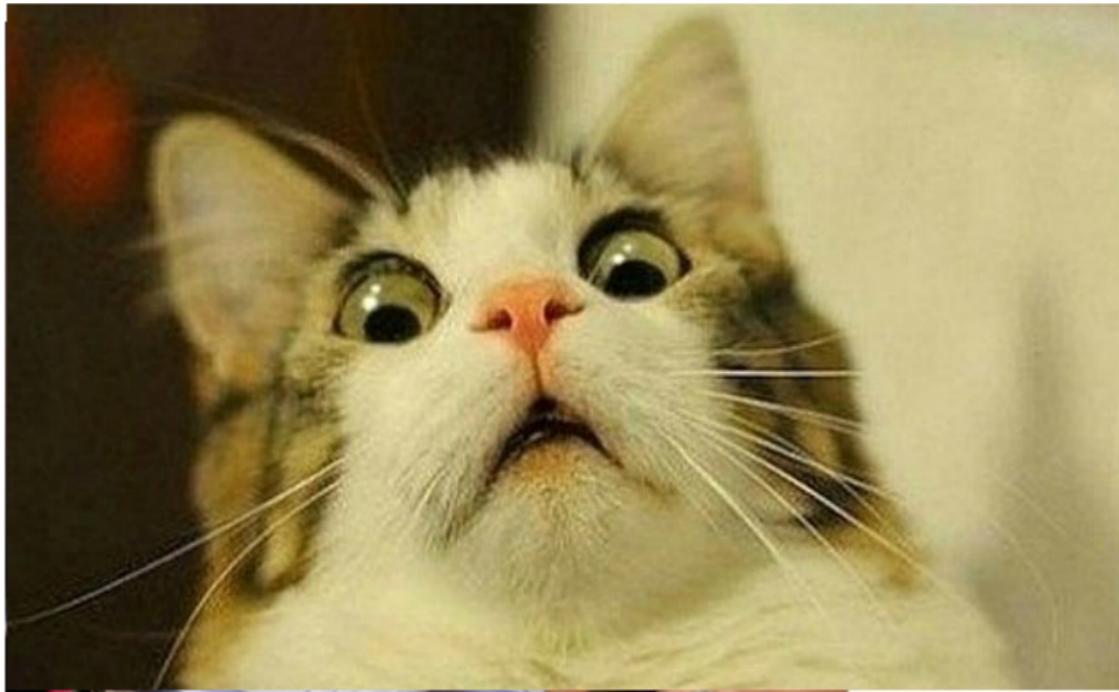


Artistic Concerns

Is it relevant?

there should be a purpose (eg. site logo)

draw attention to an article and be related to the text content



World's worst: chat-up lines

Chat-up lines are rarely, if ever, a good way to attract a partner. But some are worse than others. **Rachel Holmes** rounds up the truly terrible - can you outslime her?

138 comments

Share your photos

Artistic Concerns

Is it interesting?

don't be too relevant, imagery can be used to create intrigue and attract attention



Artistic Concerns

Is it appealing?
Aim for emotionally and aesthetically pleasing

101 COOKBOOKS

ABOUT | FAQ | RECIPE ARCHIVES

HEIDI LIKES: COOKING | NATURAL FOODS | TRAVEL | PHOTOGRAPHY | MAKING BOOKS

Hi there, my name is Heidi Swanson. 101 Cookbooks is my recipe journal. It's where I write about the recipes that intersect my life, travels, and everyday interests. Often the recipes are from my cookbook collection, sometimes not - they might come from a friend, or I might write about a recipe I created myself.

I focus primarily on natural, whole foods and ingredients - vegetarian recipes that are good for you and for the planet. Welcome!

your email here

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 super natural every day
pre-order at
[Amazon](#)
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Dried Fava Soup with Mint and Guajillo Chiles

September 15, 2010 | 67 Comments

The way I approach cooking generally falls into one of two camps. Often I have an idea of what I want to make, and I simply set out to realize that. Other times I like to follow the lead of another cook or chef. Put myself in their hands completely. When it comes to the latter, I find myself combing

Legal Concerns

Is it legal?

The Web has made it easy to access images both legally and illegally

Several legal options:

- Take it or Make it (photograph or illustrate it)
- Stock Photography
- Employ a graphic designer
- Free Images (eg. creative commons on Flickr)

5 Fonts to never use

This is a bit of fun, obviously any font is useful in the right place.

Remember I said how geeky a subject Typography was, just take a look at some of the comments on this YouTube video

DONE



DONE
DONE



Style with CSS

Style on the Web

Decisions of Style: We talked about the aspects of style in the last section, but how do we apply these to our pages?

This can be achieved by using Cascading Style Sheets (CSS) in combination with HTML

selector
p

{ **property** color : **value** black; }

declaration

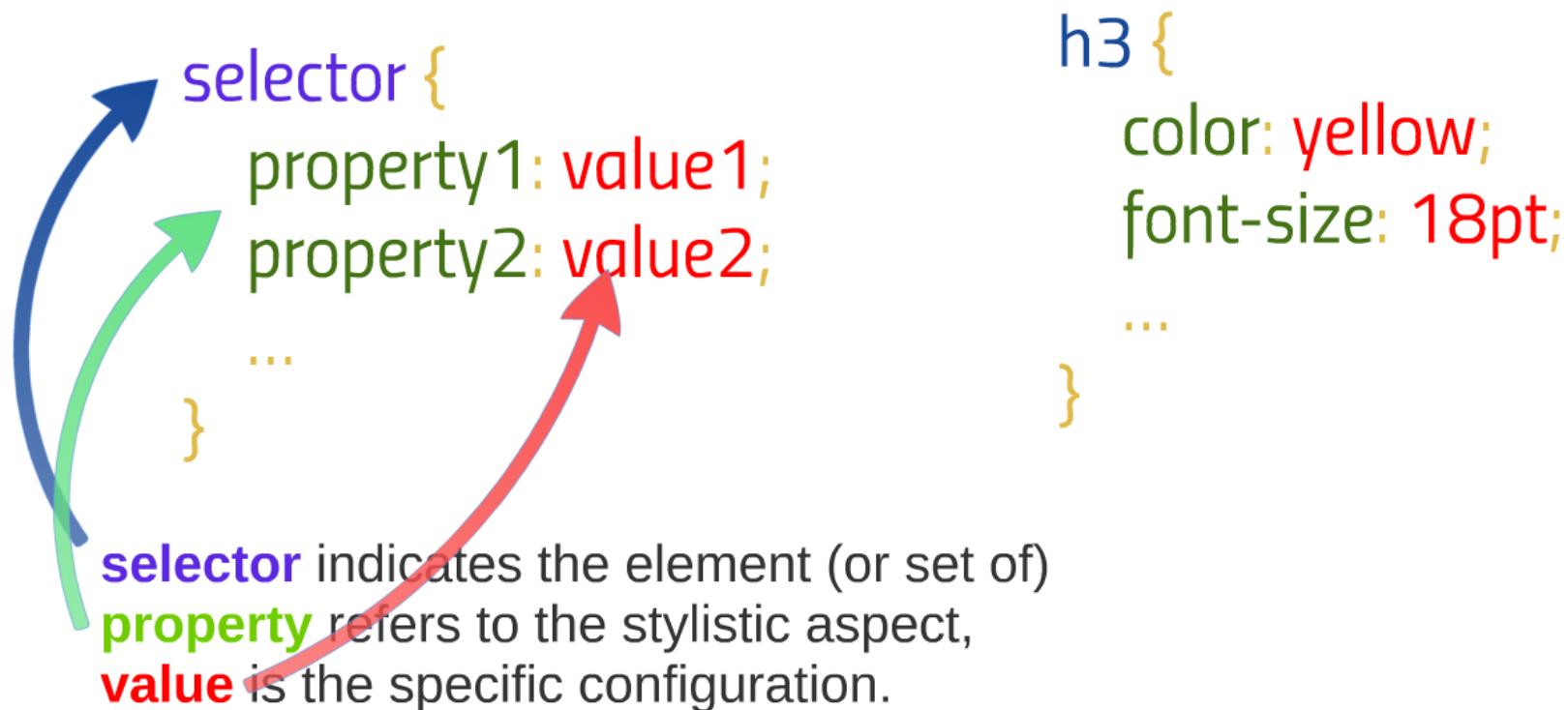
The diagram illustrates the structure of a CSS rule. It starts with a 'selector' (p) underlined by a bracket. This is followed by a brace '{'. Then comes the 'declaration' block, which contains a 'property' (color) and a 'value' (black), separated by a colon. The entire declaration block is enclosed in a brace '}'.

CSS SYNTAX

Cascading Style Sheets

Stylesheets describe the rendering of html elements
they specify stylistic aspects of individual elements or all
elements of a particular kind

A CSS consists of a set of formatting rules, which are specified in the following way:



Find and Apply Pattern

```
p {  
    font-size: 12pt;  
    font-family: "Verdana";  
}
```

Apply to all
<p> elements

```
h1, h2, h3 {  
    color: red;  
    font-size: 18px;  
}
```

Apply to all
<h1>, <h2>, <h3>
elements

Find and Apply Pattern

```
* { text-align: left;  
}
```

Apply to all elements

```
#menu a {  
    padding: 45px 25px 0px 25px;  
    border: none;  
}
```

Apply to all <a>
elements
with id="menu"

Value and Units

Units

affect the colors, distances, and sizes of a whole host of properties of an element's style

Numbers

- can be integers or real numbers

Percentages

- real number followed by %
- generally relative to some other number
- e.g. font-size:90% of the default or inherited value

Color

- named color (e.g. 'red'), functional rgb(255,0,0),
- hexadecimal RGB codes (#FF0000 or #0000FF)

Value and Units

Length Units

- inches (in),
- centimeters (cm),
- millimeters (mm),
- points (pt ~ 72pt to 1 inch),
- picas (pi ~ 1pi = 12pt)

Relative Length Units

- em is relative to the given font-size value
- e.g. font-size is 14px, 1em = 14px
- px is (should) be the size of a pixel on the monitor
- px is generally the recommended unit to use

USING CSS WITH HTML

External CSS Specification

External: In a separate file which can be shared by several pages. The file extension is “.css”

```
<head>
  <link rel="stylesheet" href="master.css" type="text/css">
</head>
```

This is the best method in terms of:

- separation of concerns
- maintenance
- performance

And is the only method you should use!



ID AND CLASS SELECTORS

Specialization of Presentation

- Class and ID selectors can be used for finer control
- This involves more planning/effort with page markup
- But can result in a better user experience
- It is also very important for manipulating elements in Javascript
- The effort also pays off if you use libraries like JQuery

Specialization of Presentation

Class selectors work on a set of elements specified by a class attribute

** ... **

Id selectors provide a way to stylize unique elements through the id attribute

<h1 id="maintitle"> ... </h1>

Class Selectors

- Class selector allow you to style items with the same HTML element differently
- They work when the class attribute of an HTML tag is given a name
- The dot (.) operator is used to define the class

.warning {font-weight: bold;}



in CSS file

<p class="warning">This text will be displayed in bold.</p>



in HTML file

<p>This text will NOT be displayed in bold.</p>



ID Selectors

- Similar to class but define a special case for an element
- IDs are meant to unique and only used once
- However, browsers are not particularly fussy about enforcing the uniqueness of identifiers
- The hash symbol (#) is used to specify an ID

```
#first-para { font-weight: bold; }
```

← in CSS file

```
<p id="first-para">This paragraph will be bold-faced</p>
```

```
<p>This will not be bold</p>
```

in HTML file

Descendent Selectors

- Elements that are descended from a particular element are styled according to the rule of the descendent selector
- This means that the rules will be applied to a set of elements in one context but not in another

p em { color:red; font-weight:bold; }

in CSS file

<body>

<p>this will be th default colour

this will be red and bold

back to the default colour</p>

</body>

in HTML file

Inheritance of Style

Styles are applied not only to a specified element, but also to its descendants

e.g. will inherit the style of its parent <p>

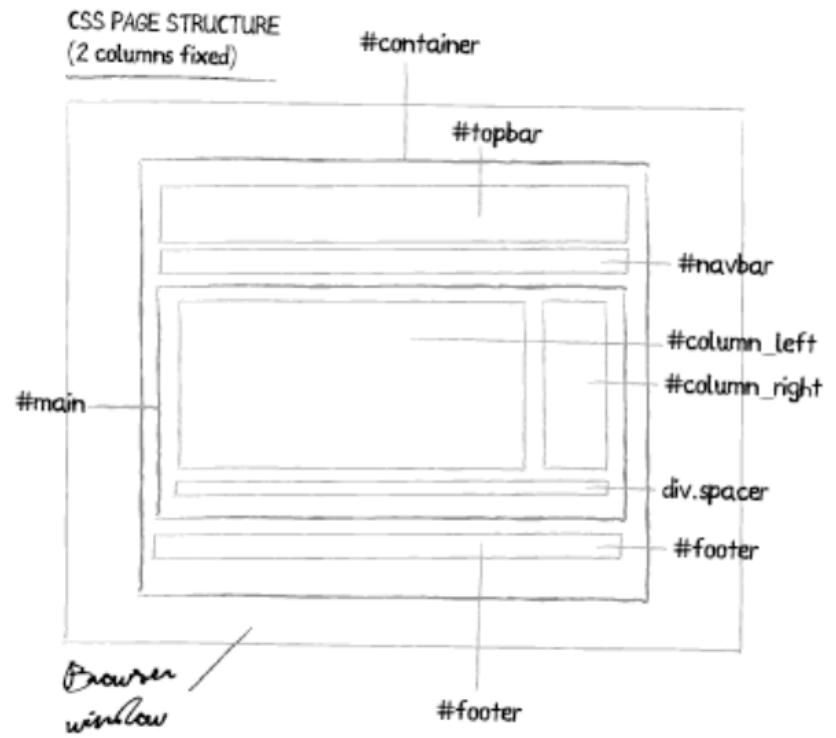
```
p { color: red;  
    font-weight: bold  
}
```

in CSS file

```
<body>  
  <p>happily grey <em>really emphasizing redness</em></p>  
</body>
```

in HTML file

PAGE LAYOUT



Page Layout

Layout of major elements of a page is controlled using CSS
header, navigation bars, sidebars, content and footers

<table> was previously used for layout

- painful for complex layout
- tables are meant for content, not layout

The preferred solution is to divide a page into a collection of
<div> or **<section>** elements

- **<div id="header"> ... </div>**
- **<header> ... </header>**

Floating

```
.thumbnail {  
    float:left;  
    width:110px;  
    height:90px;  
    margin:5px;  }
```



```
<head>  
    <link rel="stylesheet" href="master.css" type="text/css">  
</head>  
  
<body>  
      
      
      
</body>
```

Floating

CSS floating properties allow you to float elements horizontally.

Elements can be floated: left and right, but not up and down!

Elements after the floating element will flow around.

So if screen size changes elements will move down.

Positioning

```
div {  
    border: 1px solid #999;  
    margin: 20px;  
}  
  
div.fixed {  
    position: fixed;  
    top: 30px;  
    right: 5px;  
}  
  
div.Relative {  
    position: relative;  
    top: -50px;  
}  
  
div.Absolute {  
    position: absolute;  
    left: 100px;  
    top: 150px;  
}
```

CSS positioning properties allow you to position an element.

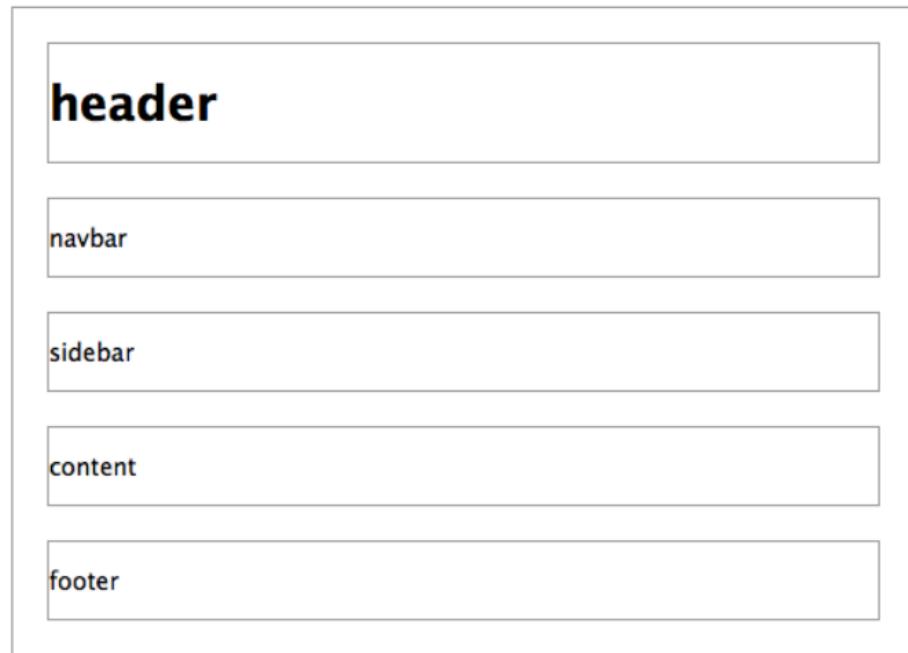
Elements can be positioned using: top, bottom, left and right properties.

There are four different ways to position: static (default), fixed, relative and absolute.

Floating and Positioning

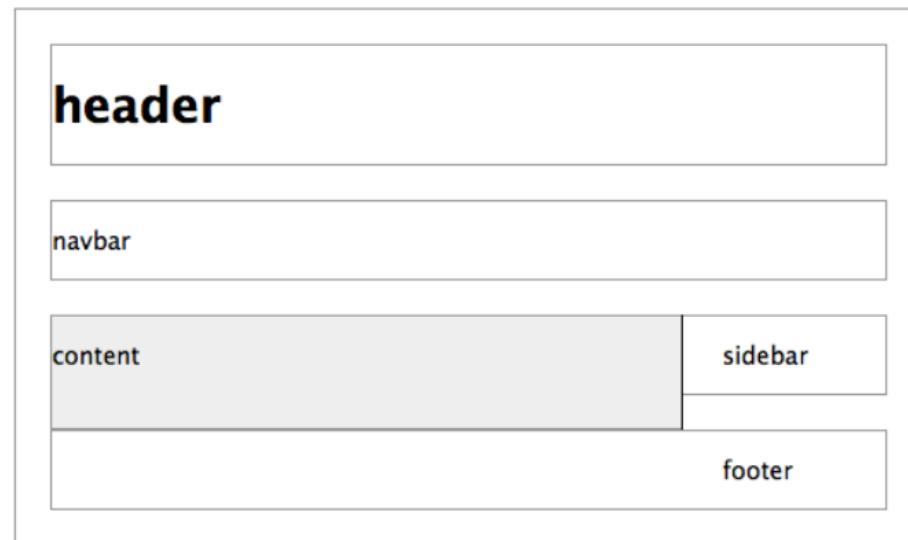
```
<head>
<style type="text/css" media="screen">
div {
    border: 1px solid #999;
    margin: 20px;}
</style>
</head>

<body>
<div id="page">
<div id="header"> <h1>header</h1> </div>
<div id="navbar"> <p>navbar</p> </div>
<div id="content"> <p>content</p> </div>
<div id="sidebar"> <p>sidebar</p> </div>
<div id="footer"> <p>footer</p> </div>
</div> <!-- end of page -->
</body>
```



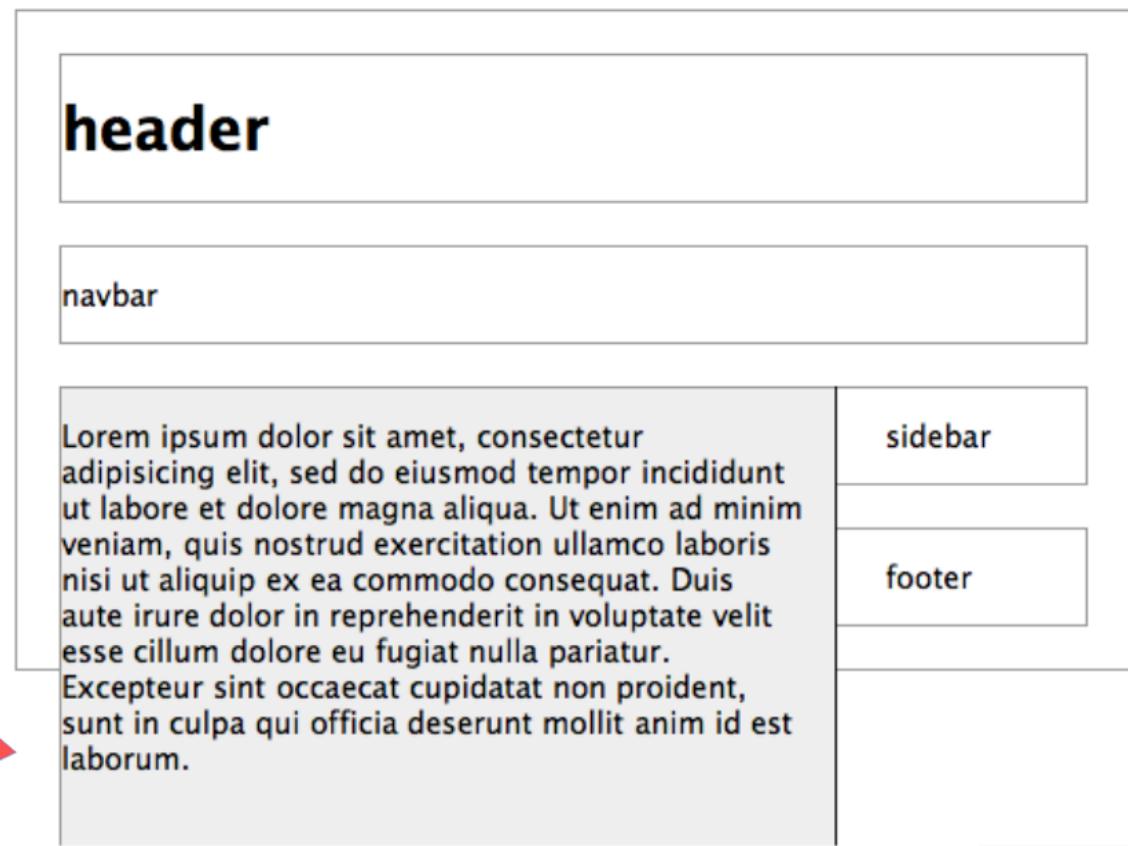
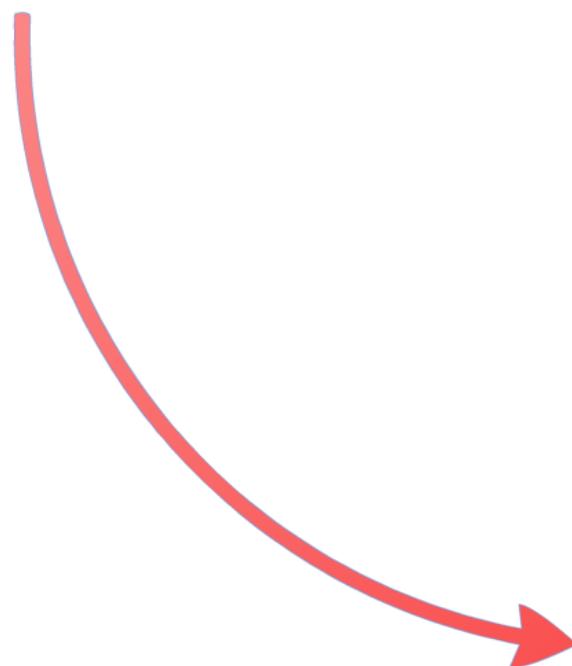
Floating and Positioning

```
#content {  
    float: left;  
    width: 67%;  
    background: #eee;  
    margin-top: 0;  
    margin-right: 1.67em;  
    border-right: 1px solid black;  
    padding-top: 0;  
    padding-right: 1em;  
    padding-bottom: 20px;  
}
```



Floating and Positioning

Due to the natural flow layout, the footer block has appeared in the incorrect location.

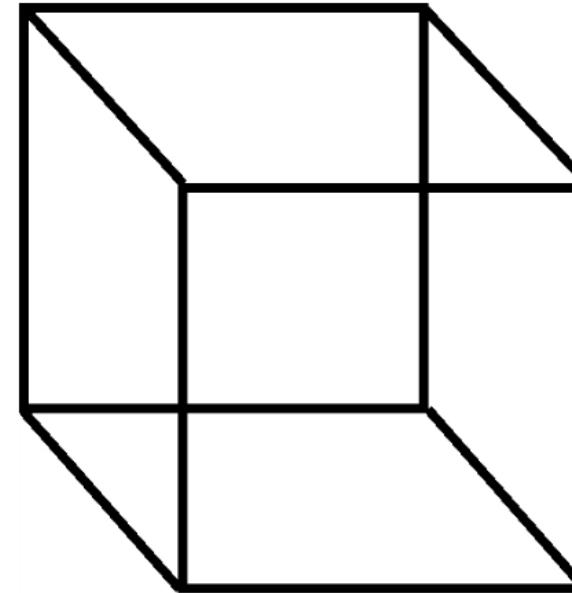


Floating and Positioning

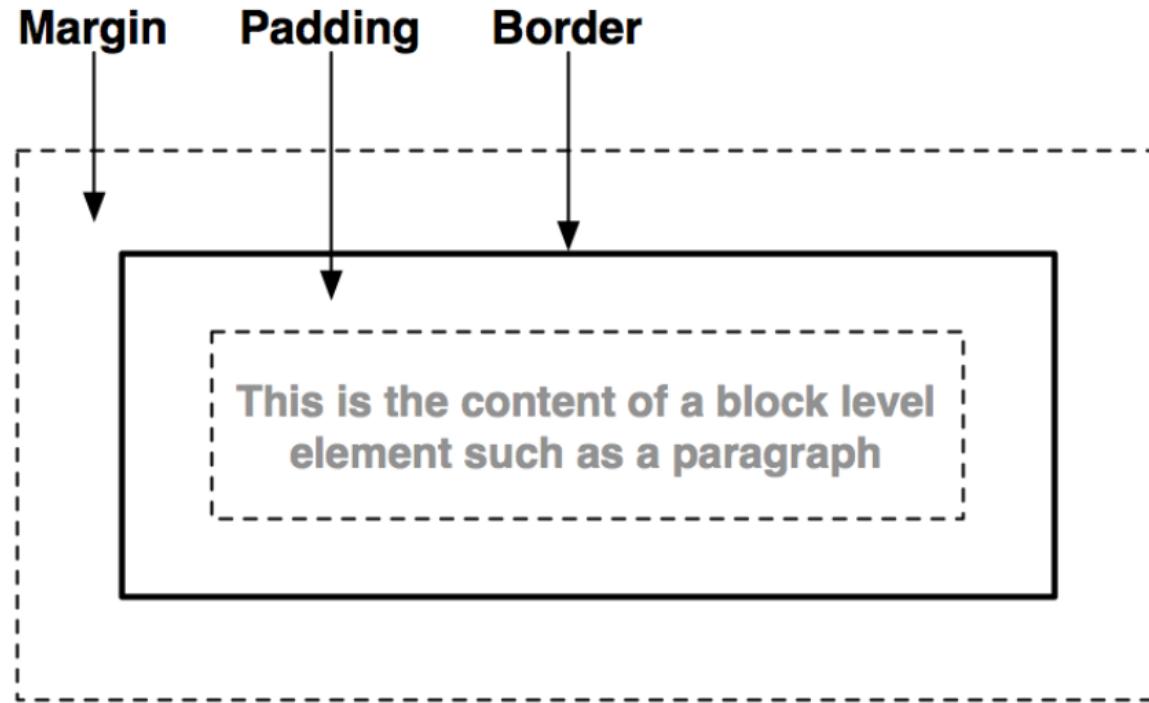
```
#footer {  
    clear: both;  
    padding-bottom: 1em;  
    border-top: 1px solid #333;  
    text-align: center;  
}
```



THE BOX MODEL

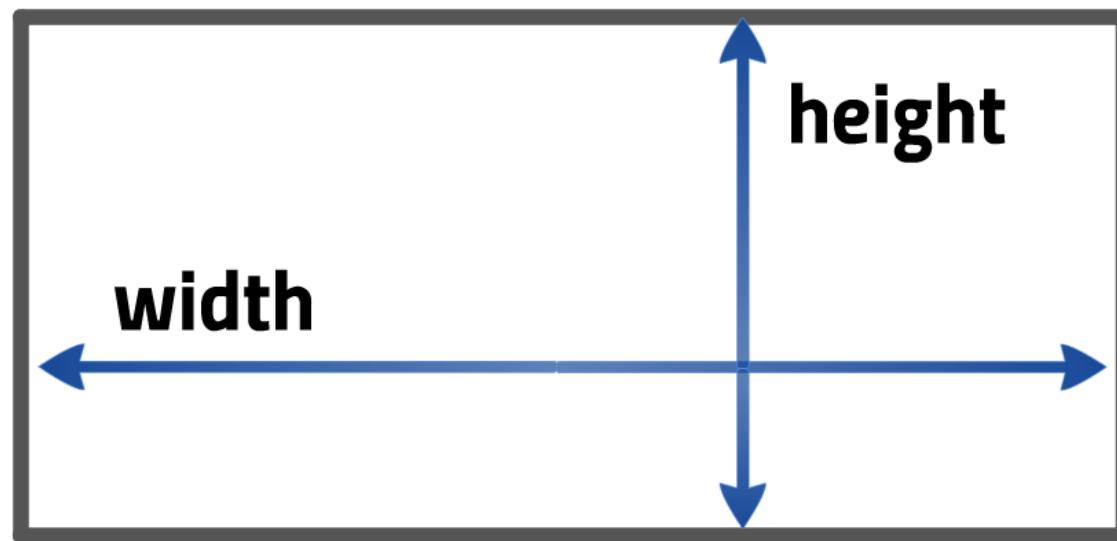


The Box Model

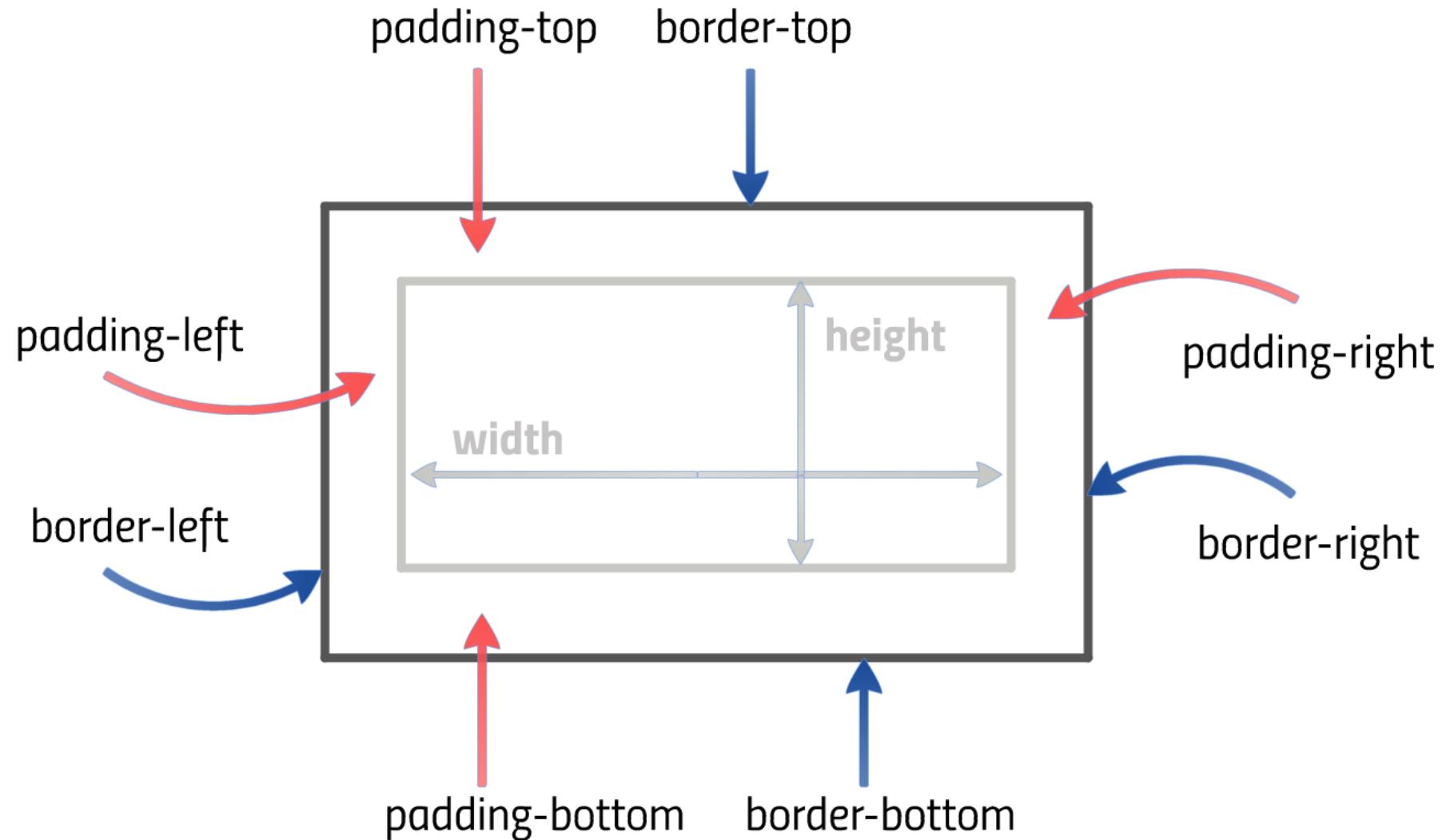


Every element (e.g. `<p>` `<div>`) has one or more rectangular element boxes which contain the element's content. The element box is surrounded by optional amounts of padding, borders, and margins.

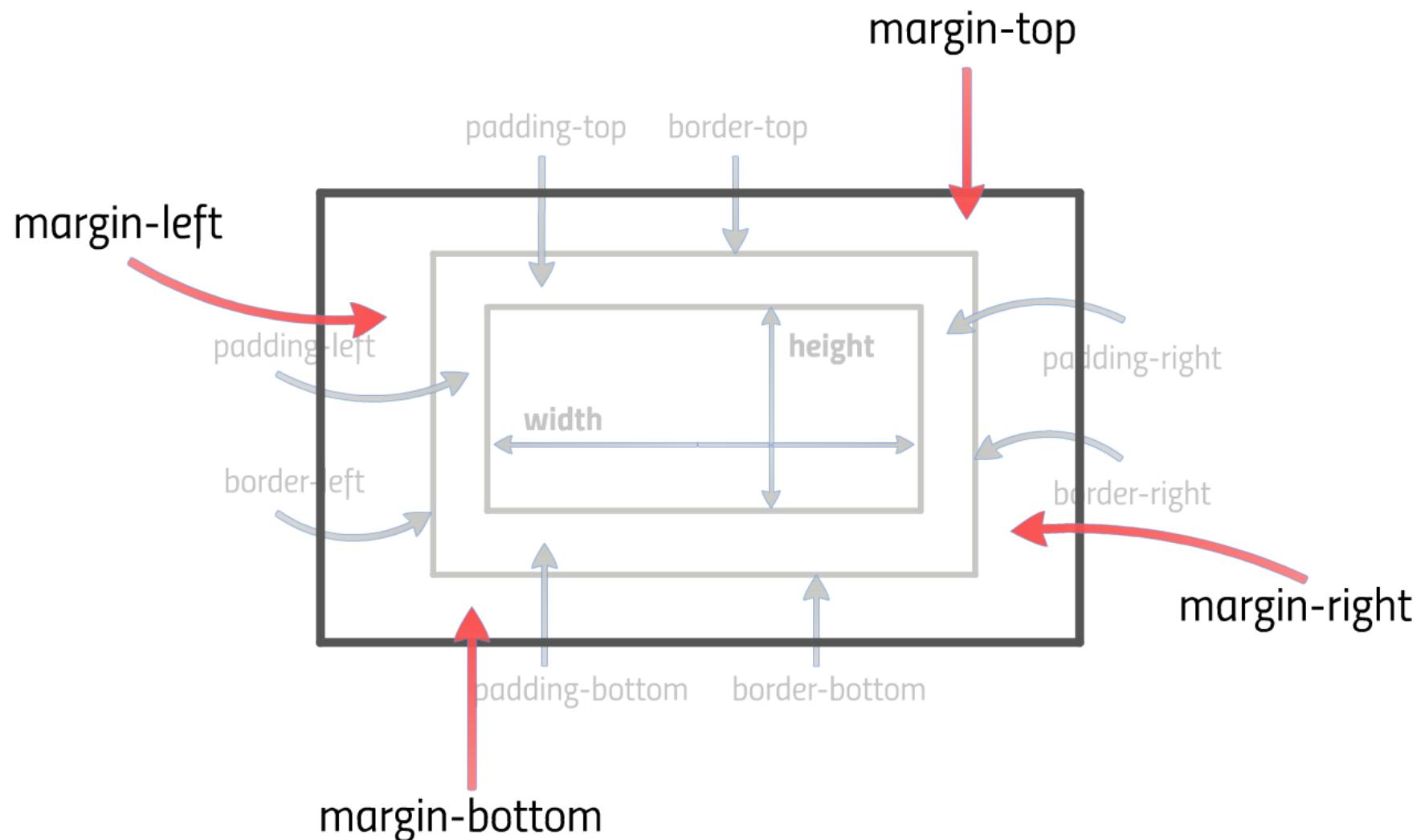
Box Model Properties



Box Model Properties



Box Model Properties



Box Model Properties

```
div {  
  
    width: 900px;  
    height: 600px;  
  
    padding-top: 20px;  
    padding-right: 20px;  
    padding-bottom: 20px;  
    padding-left: 20px;  
  
    border: 1px solid #999;  
  
    margin: 20px 0px 40px 0px;  
}
```

Benefits of CSS

Cascading Style Sheets (CSS) is a method of separating a page's structure and content from its presentation

CSS allows for a much richer page appearance than with HTML alone (no more tables)

Benefits of CSS

CSS can save time as the appearance of the entire page app can be created and changed in just one place

CSS can improve load times as it compactly stores the presentation concerns of a page in one place instead of being repeated throughout the page

Note on coursework

Remember it's Clientside!

- You don't want to create lots and lots of information
- The point is that you want to re-purpose existing information or ability through an API (application programming interface)

Accuweather



Mapther



Google Maps

