

Interaction Design

Chapter 8 (July 5, 2017, 9am-12pm):
Simplicity and Graphical User Interface Design

Recap Day 7:

Overview

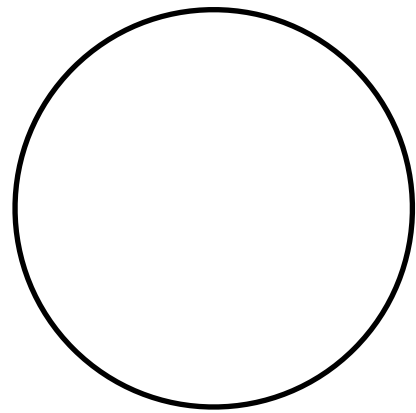
Tell a story
Make it tangible

DISCOVER
DEFINE

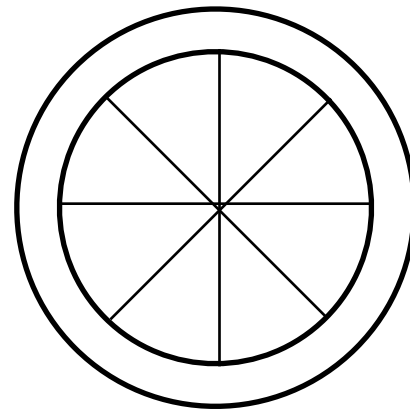
Prototype

DE

Fidelity v. Resolution



low resolution
low fidelity



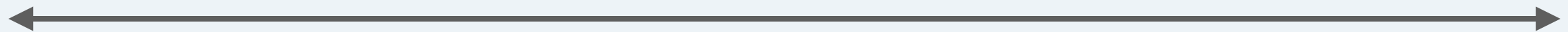
high resolution
low fidelity



high resolution
high fidelity

Low Fidelity

High Fidelity



Open Discussion

Sharp Opinions

Prompting Required

Self Explanatory

Quick and Dirty

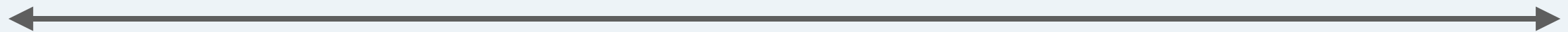
Deliberate and Refined

Early Validation

Concrete Ideas

Low Resolution

High Resolution



Less Details

More Details

Focus on core interactions

Focus on the whole

Quick and Dirty

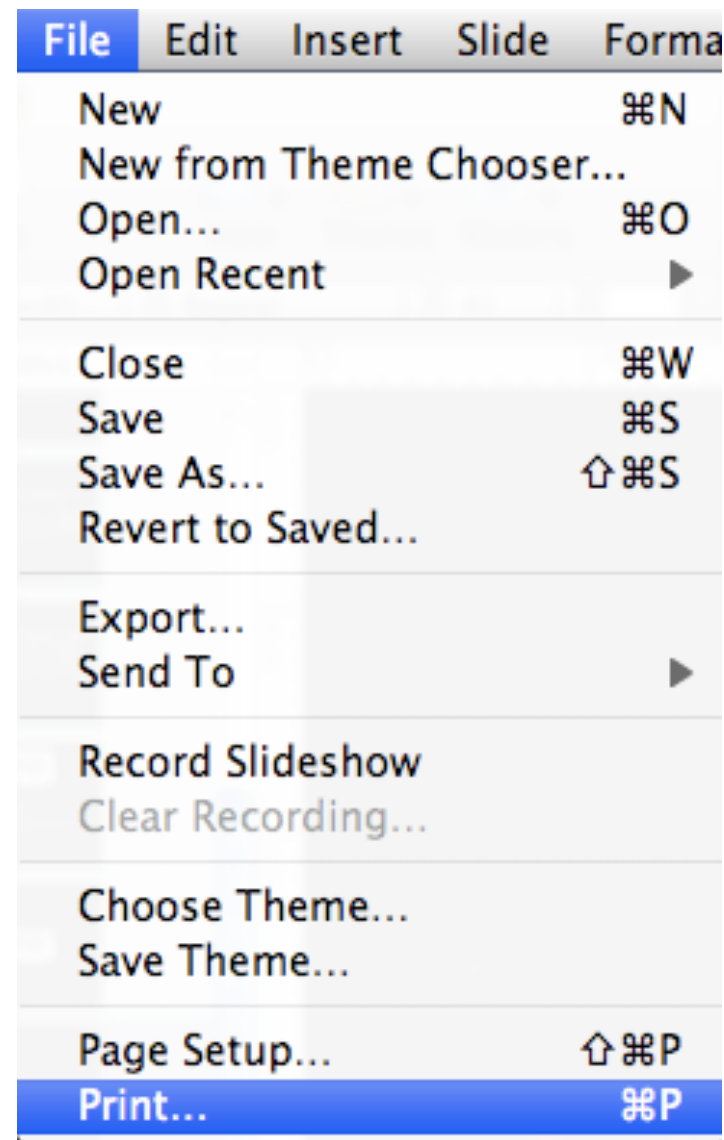
Deliberate and Refined

Early Validation

Concrete Ideas



80/20 rule



A principle for setting priorities: users will use 20% of the features of your product 80% of the time. Focus the majority of your design and development effort (80%) on the most important 20% of the product.

Interaction Design

Chapter 8 (July 5, 2017, 9am-12pm):
Simplicity and Graphical User Interface Design

Part One

"Great design is as much about prospecting in the past as it is about inventing the future."

Bill Buxton

Design and Simplicity

- Bauhaus: History and Directors
- Bauhaus: Structure and Products
- From Bauhaus to Braun



Bauhaus

http://www.portal-dessau.de/uploads/pics/Bauhaus_TM_2010_2.JPG



<http://www.flickr.com/photos/scoobyfoo/268308263/sizes/l/in/photostream/>

Key Dates:

founded 1919 in Weimar
closed down 1933 in Berlin

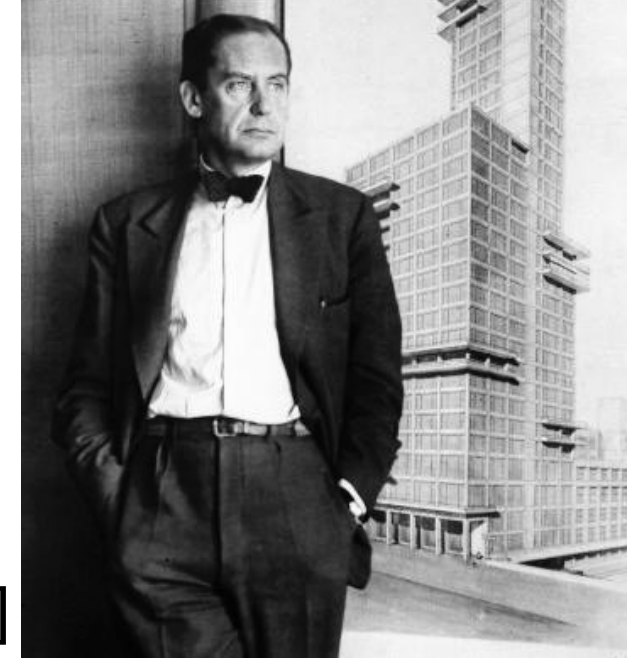
Key People - 3 Directors:

[1] Walter Gropius (1919-1928)

[2] Hannes Meyer (1928-1930)

[3] Ludwig Mies van der Rohe (1930-1933)

[1]



[2]



[3]

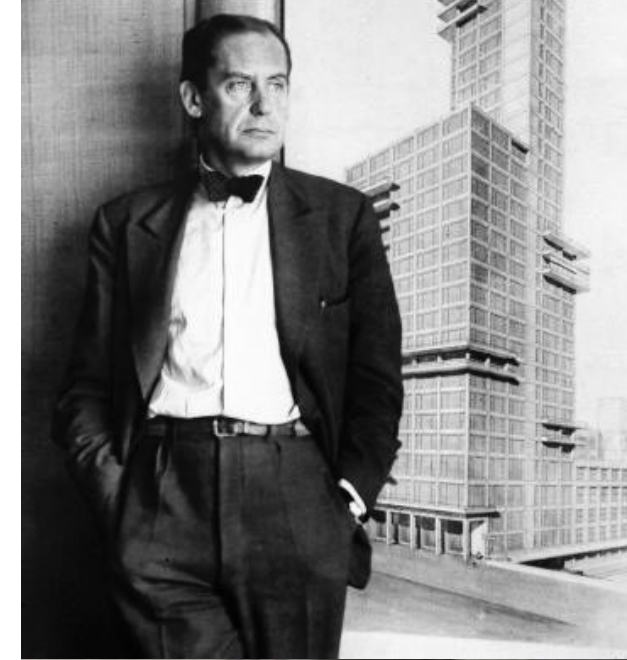


source: [7]

http://www.stylepark.com/db-images/cms/designer/img/miesvanderrohe_320_336-1.jpg

http://einestages.spiegel.de/hund-images/2009/03/30/59/3d98cebcb31abdbc318ed82e888903d6_image_document_large_featured_borderless.jpg

**Art and technology - a new entity.
Walter Gropius**



**The investigation of human needs should
be based on science - not formalism.
Hannes Meyer**



**God is in the details.
Ludwig Mies van der Rohe**



http://www.stylepark.com/db-images/cms/designer/img/miesvanderrohe_320_336-1.jpg

http://einestages.spiegel.de/hund-images/2009/03/30/59/3d98cebcb31abdbc318ed82e888903d6_image_document_large_featured_borderless.jpg

Design and Simplicity

- Bauhaus: History and Directors
- Bauhaus: Structure and Products
- From Bauhaus to Braun



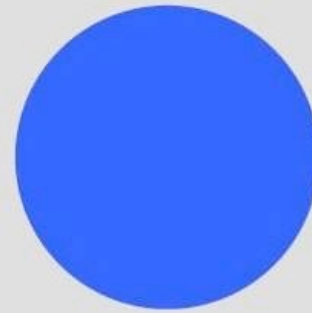
Pre-Course



Prototyping Design

BAUHAUS

Hrsg.
Jeannine Fiedler
Peter Feierabend

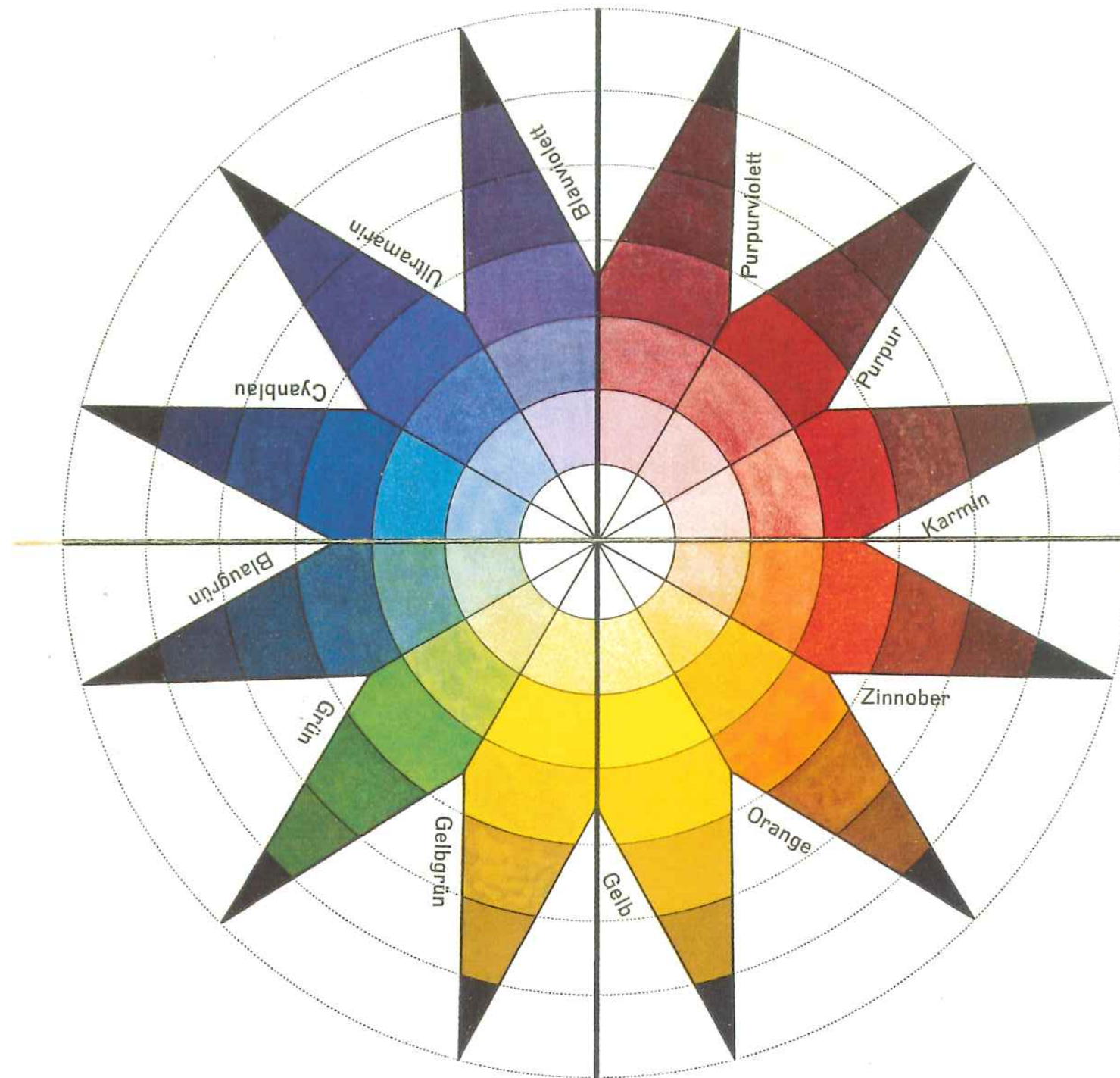


Basic Shapes

*h.f.*fullmann

www.kunstbuch-shop.de

source: [8]



Color Sphere

source: [7]



Marcel Breuer

http://www.boecker-buerogestaltung.de/images/designer/marcel_breuer.01.jpg

source: [8]



Chair B3 “Wassily”

http://upload.wikimedia.org/wikipedia/commons/1/19/Bauhaus_Chair_Breuer.png

source: [8]

Design and Simplicity

- Bauhaus: History and Directors
- Bauhaus: Structure and Products
- From Bauhaus to Braun



http://www.impressionen.de/medias/sys_impressionen/8468670013361232.image.jpg



<http://remodelista.com/img/sub/oilcruet2.jpg>



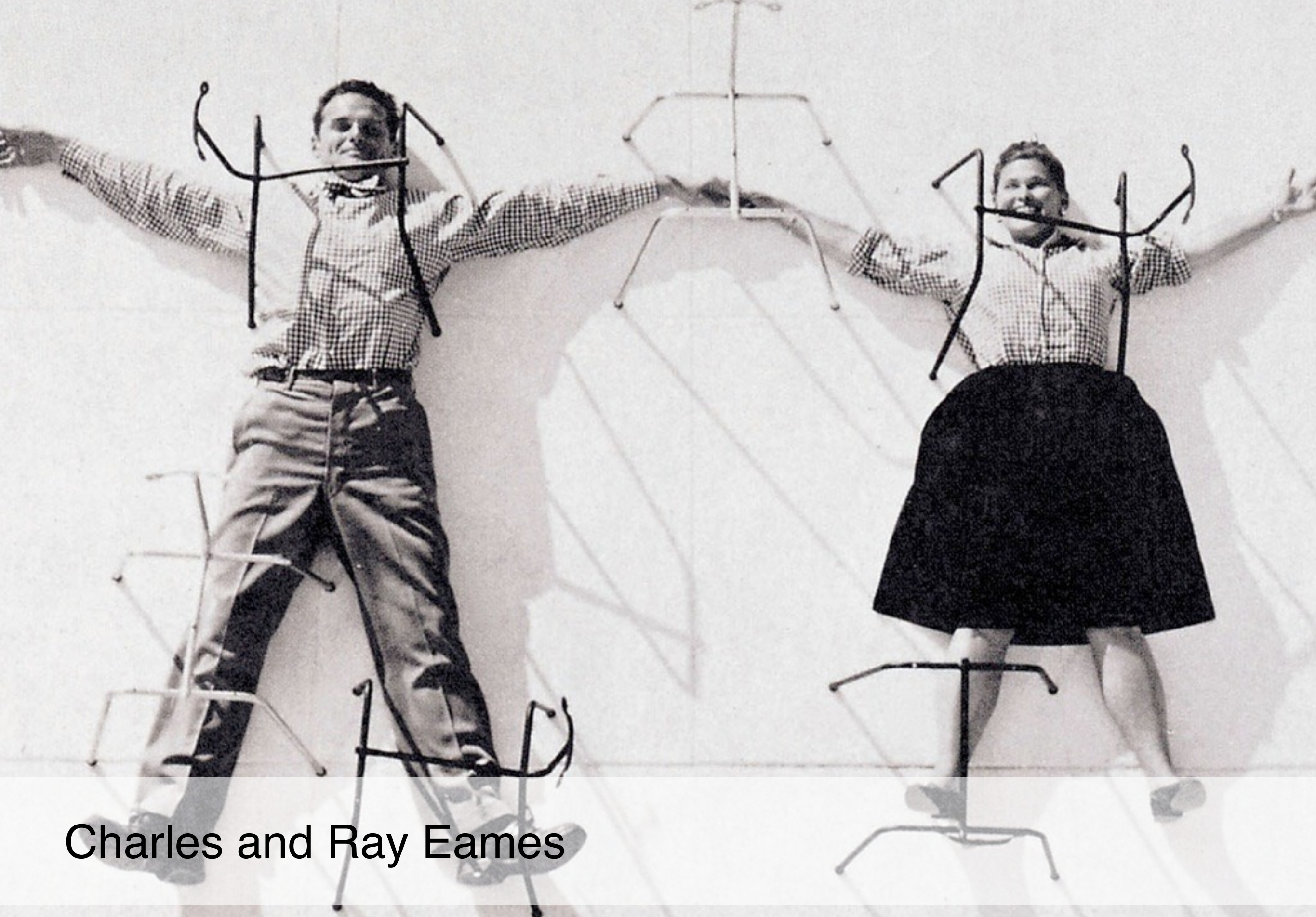
http://www.bauhaus-shop.de/templates/xt_bauhaus/img/categories/bauhaus_silberteekanne_pr.jpg

Requirements:

Type (variations of the original design)

Basic shape - few simple parts (industrial manufacturing)

Functionality (design for human needs)



Charles and Ray Eames

<http://luciotraficante.files.wordpress.com/2009/11/charles-ray-eames.jpg>

Ray & Charles Eames







Braun SK6

<http://www.flickr.com/photos/faasdant/3974968657/>

Braun Radio



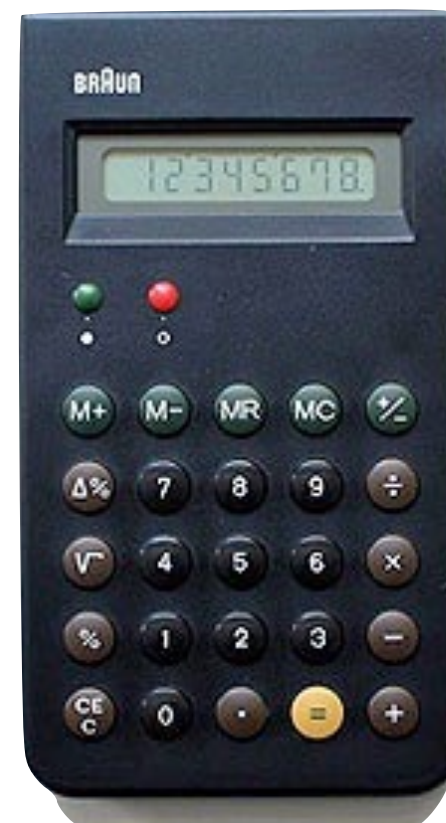
iPod



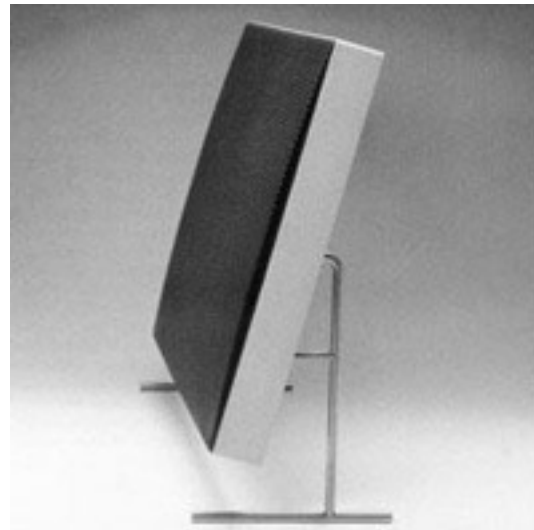
iPhone Calculator



Braun Calculator



Braun Speaker



iMac



Braun Radio



Powermac G5



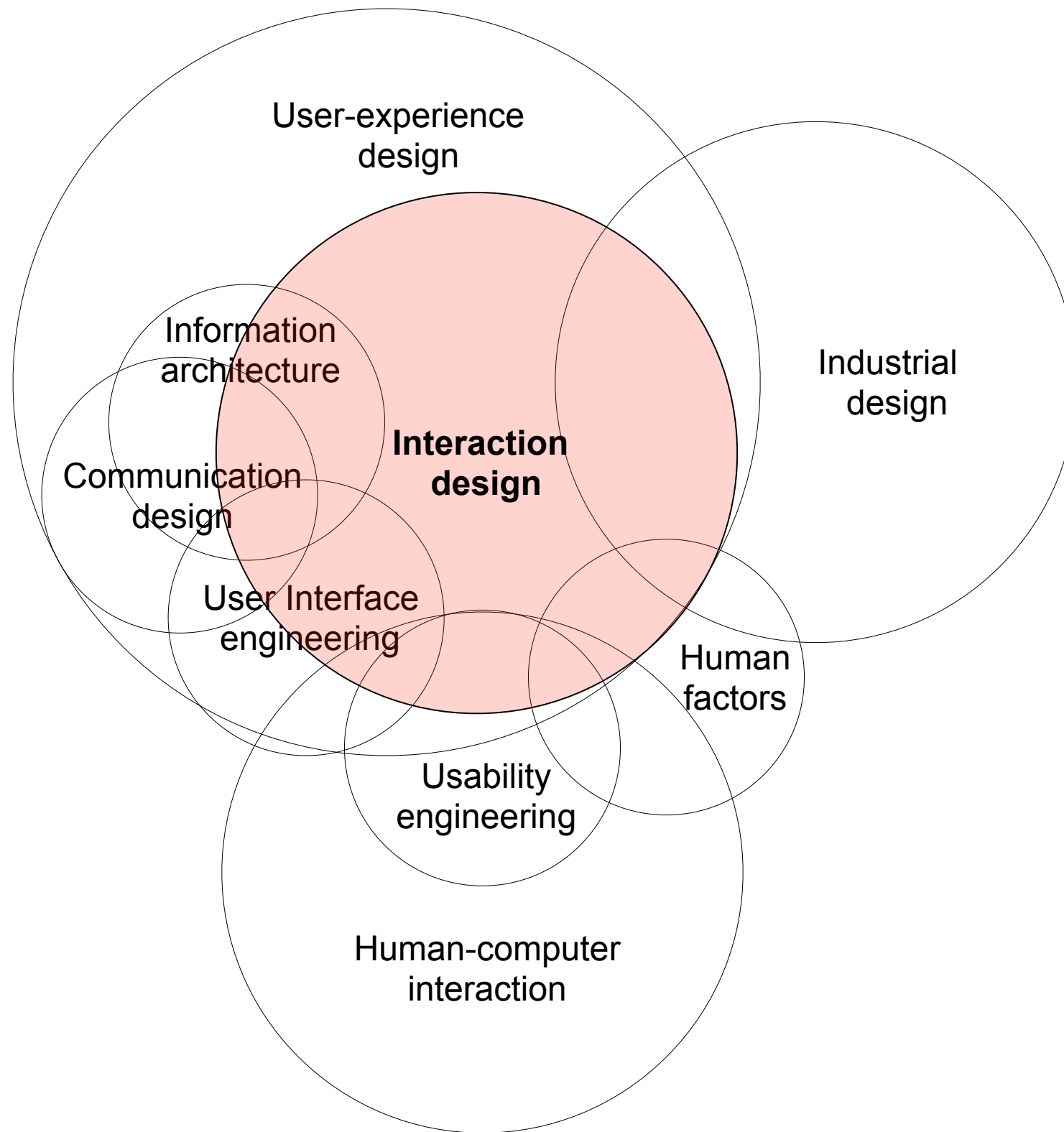
Part Two

Graphical User Interface Design

- Principles
- Layout, Typography, Color & Contrast
- Controls and Widgets
- Simplicity

INTERACTION DESIGN



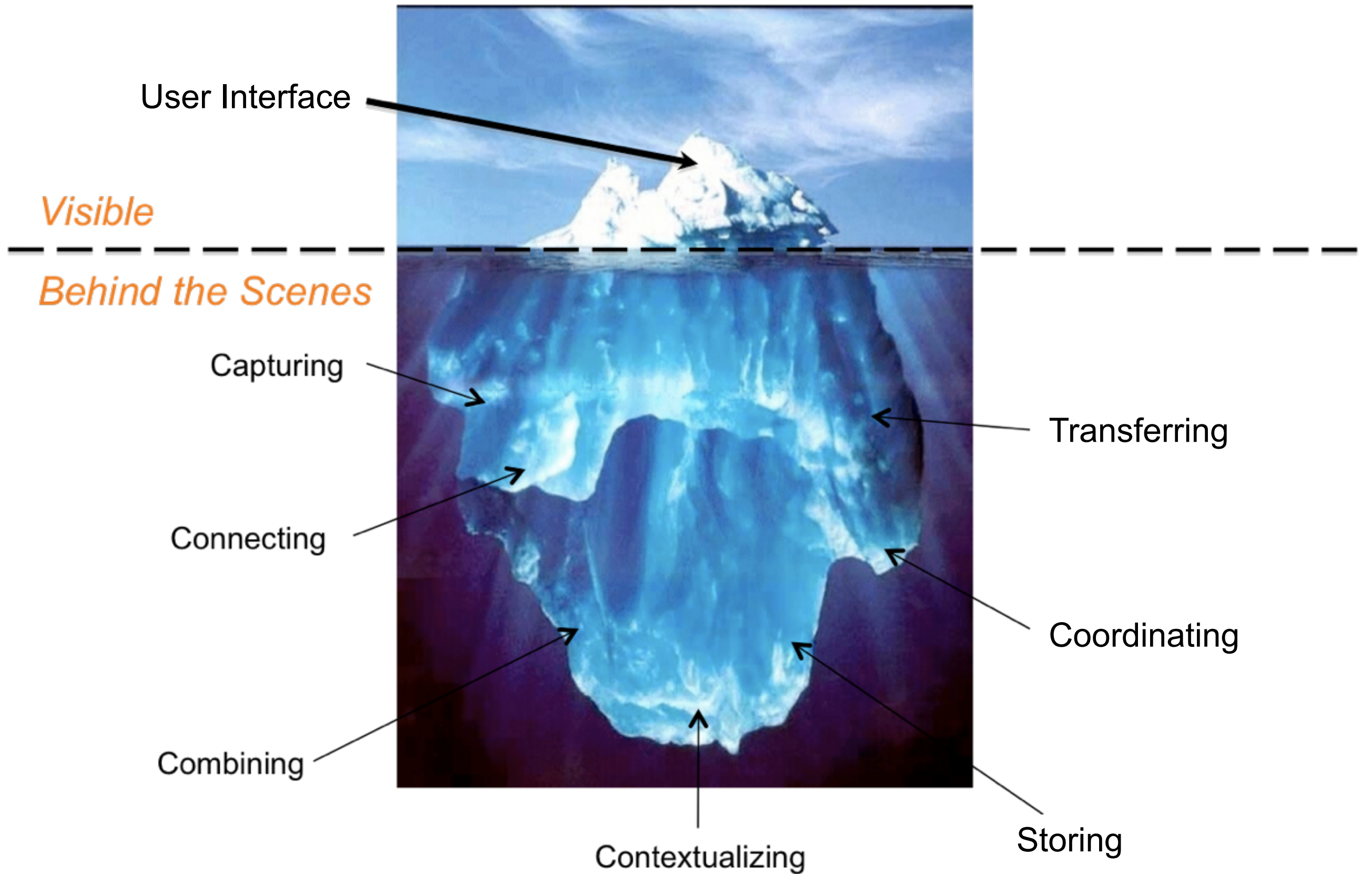


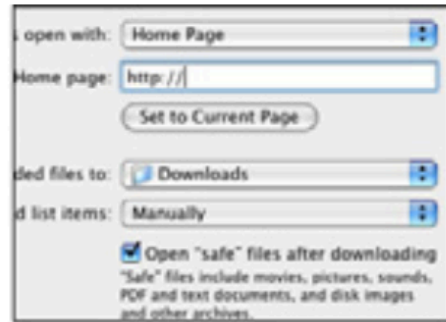
Like all forms of design, visual design is about problem solving, not about personal preference or unsupported opinion.

Bob Baxley

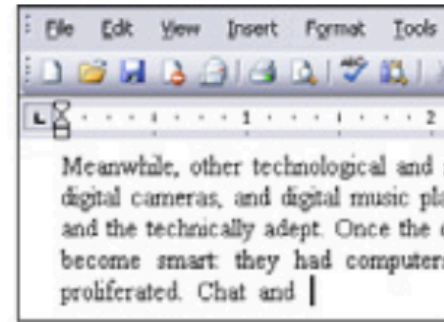
Interface design is only the experienced **representation** of the interaction, not the interaction design itself.



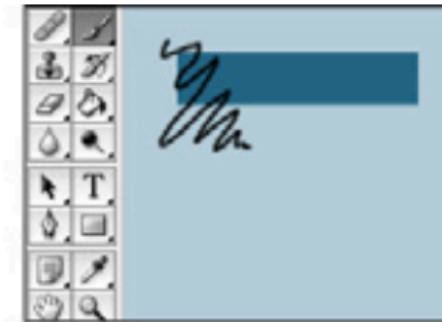




Forms



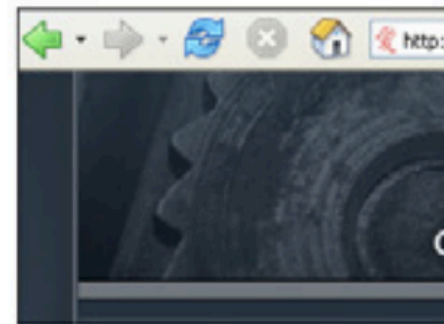
Text editors



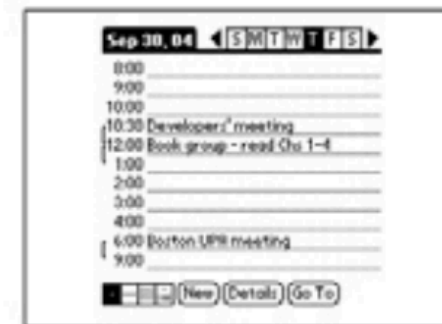
Graphic editors

	A	B	C	
1	Time	XeX	XeY	XeZ
2		0	-12071.9	0 -30
3	5.12E-22	-12071.9	-5.7E-65	-30
4	1.54E-21	-12071.9	-9.8E-64	-30
5	3.6E-08	-12071.9	-1.1E-23	-30
6	2.16E-07	-12071.9	-2.5E-21	-30
7	1.12E-06	-12071.9	-3.4E-19	-30
8				
9				
10				

Spreadsheets



Browsers



Calendars



Media players



Information graphics



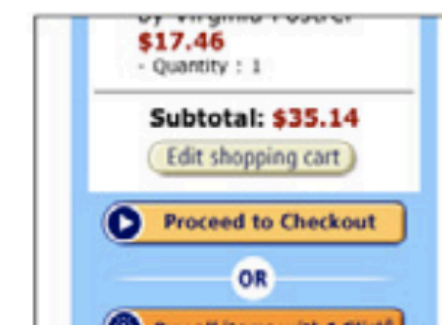
Immersive games



Web pages



Social spaces



E-commerce sites

- Desktop applications
- Websites
- Web applications or “rich internet applications” (RIAs)
Professional products or embedded devices
- Software for mobile devices or other consumer electronics
- Turnkey systems like kiosks
- Operating systems

UI design communicates attributes such as reliability, excitement, playfulness, energy, calmness, strength, tension, and joy.



CSS ZEN GARDEN

The Beauty of CSS Design

A demonstration of what can be accomplished visually through CSS-based design. Select any style sheet from the list to load it into this page.

Download the sample [HTML FILE](#) and [CSS FILE](#)

The Road to Enlightenment

Littering a dark and dreary road lay the past relics of browser-specific tags, incompatible DOMs, and broken CSS support.

Today, we must clear the mind of past practices. Web enlightenment has been achieved thanks to the tireless efforts of folk like the W3C, WaSP and the major browser creators.

The css Zen Garden invites you to relax and meditate on the important lessons of the masters. Begin to see with clarity. Learn to use the (yet to be) time-honored techniques in new and invigorating fashion. Become one with the web.

Select a design

UNDER THE SEA!
by Eric Stoltz

MAKE 'EM PROUD
by Michael McAghon and Scotty Reifanyder

ORCHID BEAUTY
by Kevin Addison

OCEANSCAPE
by Justin Gray

CSS CO., LTD.
by Benjamin Klemm

SAKURA
by Tatsuya Uchida

KYOTO FOREST
by John Poltowski

A WALK IN THE GARDEN



CSS Zen Garden

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The Road to Enlightenment

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<http://csszengarden.com/>



Tools

source : [4]



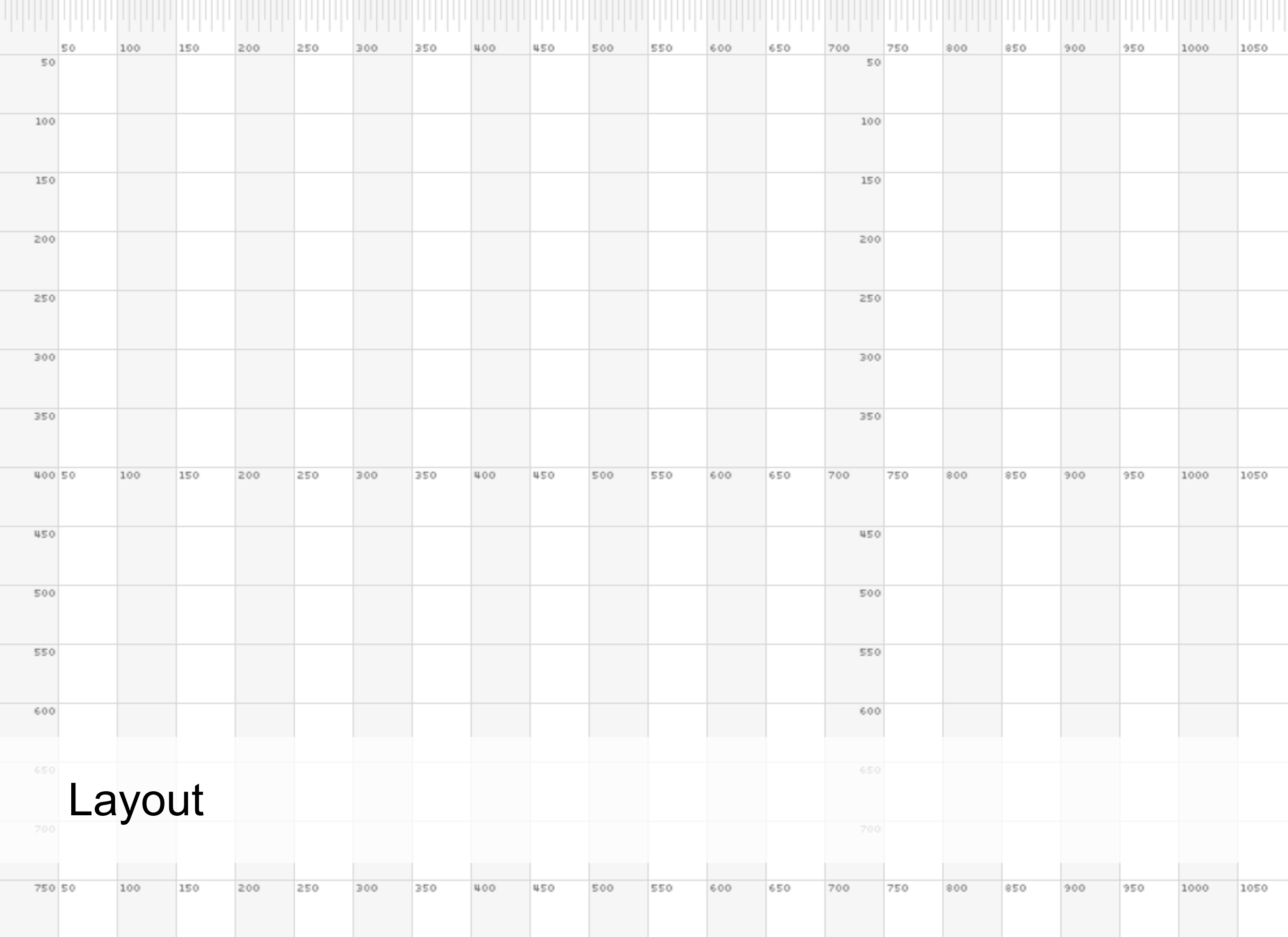
UI Toolboxes



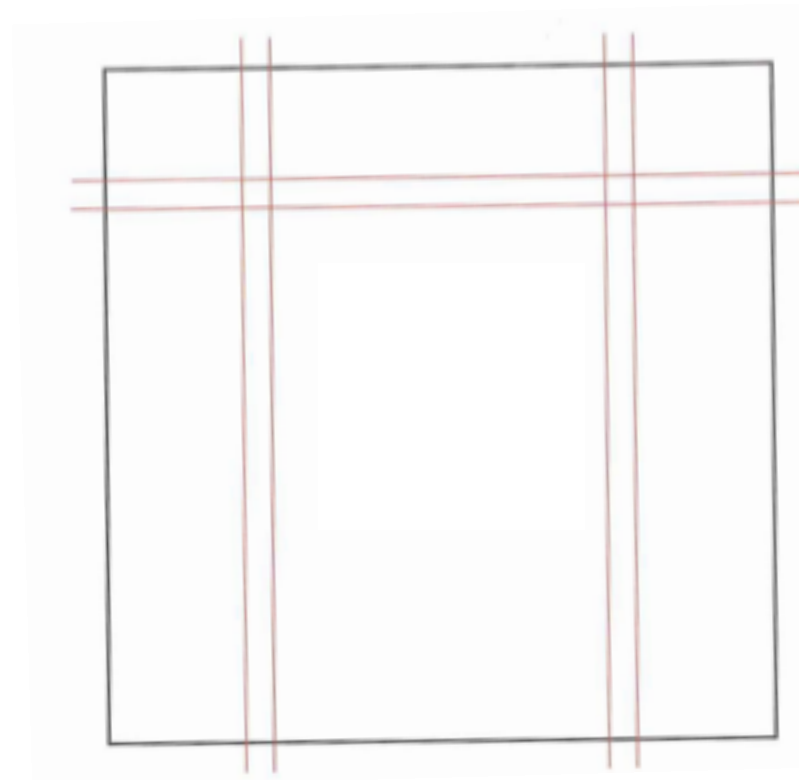
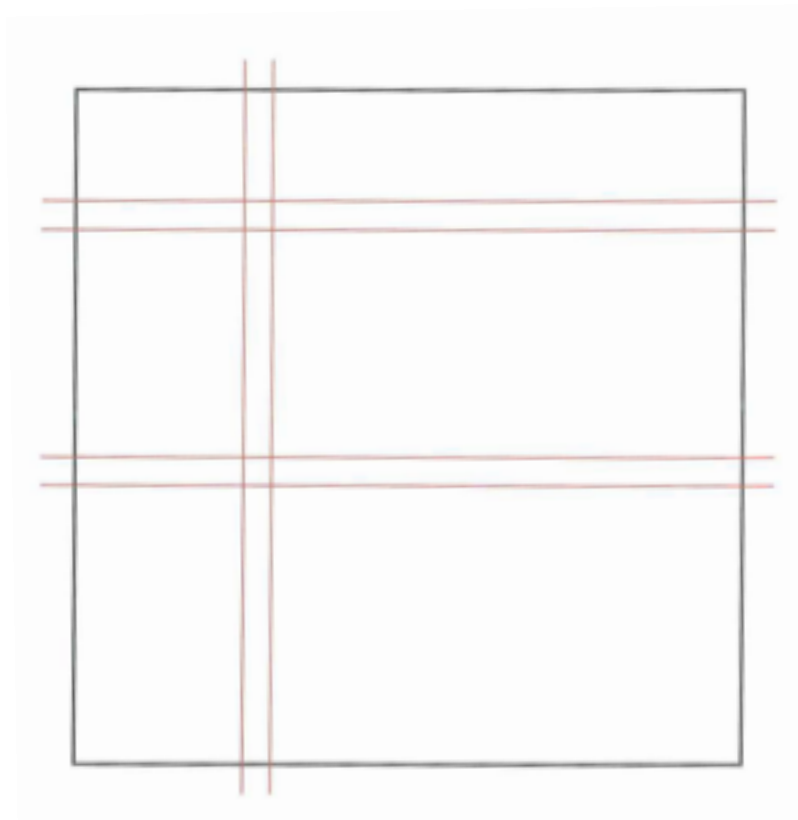
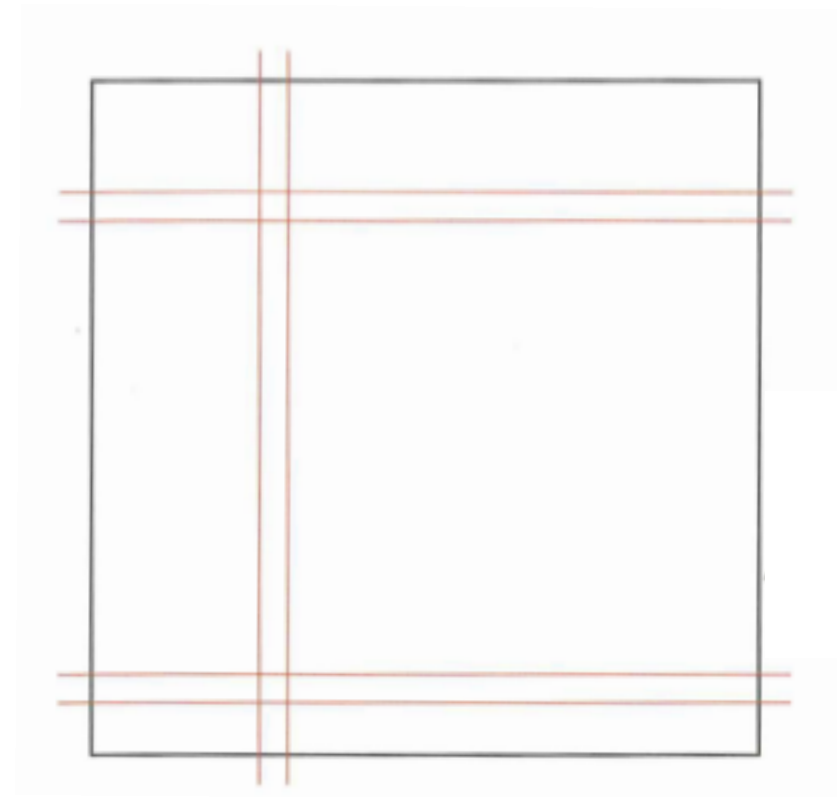
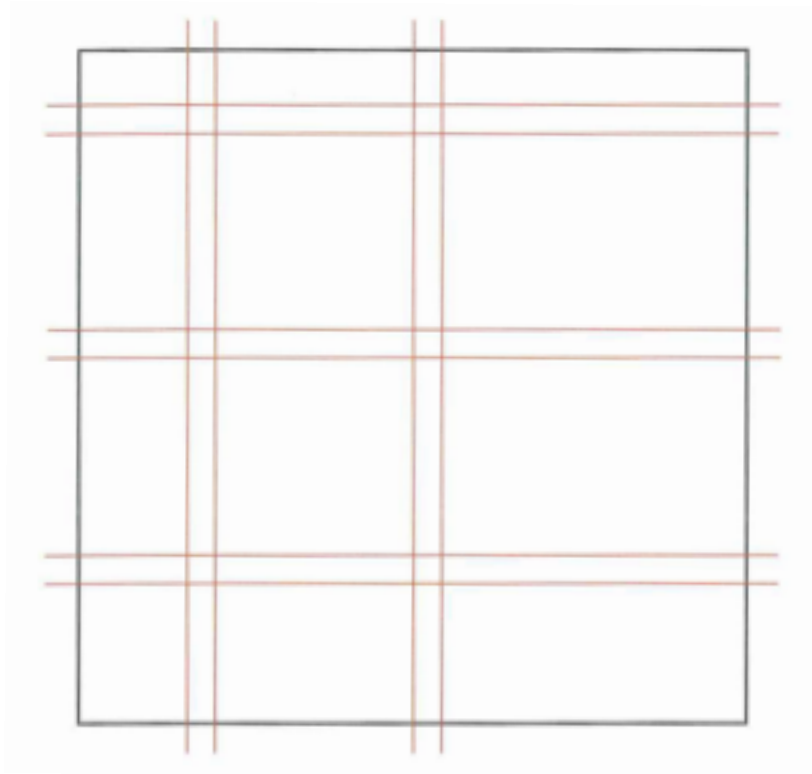
source : [4]

Graphical User Interface Design

- Principles
- Layout, Typography, Color & Contrast
- Controls and Widgets
- Simplicity



Layout



source : [4]



- ✓ SS10-Master
- SS10-Master copy
- Slides
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

LMU München – Medieninformatik – Alexander Wiethoff + Heinrich Hussmann + Aurelien Tabard – Interaction Design – SS2012 11

Grids



Welcome to Wikipedia,
the free encyclopedia that anyone can edit.
3,994,652 articles in English

- Arts
- Biography
- Geography
- History
- Mathematics
- Science
- Society
- Technology
- All portals

- Main page
- Contents
- Featured content
- Current events
- Random article
- Donate to Wikipedia

- Interaction
 - Help
 - About Wikipedia
 - Community portal
 - Recent changes
 - Contact Wikipedia

- Toolbox
- Print/export

- Languages
 - Simple English
 - العربية
 - Bahasa Indonesia
 - Bahasa Melayu
 - Български
 - Català
 - Česky
 - Dansk
 - Deutsch
 - Eesti
 - Ελληνικά
 - Español
 - Esperanto
 - Euskara
 - فارسی
 - Français
 - Galego
 - 한국어
 - עברית

Today's featured article



The **Cross of Gold speech** was delivered by **William Jennings Bryan**, a former congressman from **Nebraska**, at the Democratic National Convention in **Chicago** on July 9, 1896. In the address, Bryan supported **bimetallism** or "free silver", which he believed would bring the nation prosperity. He decried the **gold standard**, concluding the speech, "you shall not crucify mankind upon a cross of gold". Bryan's address helped catapult him to the **Democratic Party's** presidential nomination; it is considered one of the greatest political speeches in American history. For twenty years, Americans had been bitterly divided over the nation's **monetary standard**. Many Americans believed bimetallism (making both gold and silver **legal tender**) was necessary to the nation's economic health. Bryan's speech, delivered at the close of the debate on the **party platform**, electrified the convention and is generally credited with getting him the nomination for president. However, he lost **the general election** to **William McKinley** and the United States formally adopted the gold standard in 1900. [\(more...\)](#)

Recently featured: *Dendrocollybia* – *Killer7* – *Calgary Stampede*

[Archive](#) – [By email](#) – [More featured articles...](#)

Did you know...

From Wikipedia's newest content:

- ... that during the **Antinomian Controversy**, **Anne Hutchinson** (*pictured*) withstood two separate trials without counsel before being banished from **Massachusetts**?
- ... that **Argentine nationalism** sees **José de San Martín**, **Juan Manuel de Rosas** and **Juan Perón** as a line of historical continuity?
- ... that one of the most popular Polish cabarets, **Pod Egidą**, performing since 1967, has faced persecution from the communist authorities in the People's Republic of Poland?
- ... that 2012 College World Series Most Outstanding Player **Robert Refsnyder** was born in South Korea and adopted by a California couple when he was three months old?
- ... that the print identity of UK music newspaper *The Stool Pigeon* is modelled on Victorian tabloids?
- ... that 2012 Australian Olympic canoeist **Hannah Davis** won a bronze medal in the sport at the 2008 Summer Olympics?
- ... that the starfish *Anasterias rupicola* feeds on the limpet *Nacella macquariensis*, sometimes hunting it in groups?



In the news

- At least 141 people are killed in a **flash flood** in the **Krasnodar Krai** region of **Russia**.
- **The Shard** (*pictured*) in London is inaugurated as the tallest building in Europe, with a height of 310 metres (1,020 ft).
- In association football, the **Copa Libertadores** concludes with **Corinthians** defeating **Boca Juniors** in **the Finals**.
- **CERN** announces the discovery of a new particle with properties consistent with the **Higgs boson** after experiments at the **Large Hadron Collider**.
- **GlaxoSmithKline** pleads guilty to criminal charges of health care fraud and is fined a record US\$3 billion.
- In association football, **UEFA Euro 2012** concludes with **Spain** defeating **Italy** in **the final** to win a second consecutive **European Football Championship**.



[Wikinews](#) – [Recent deaths](#) – [More current events...](#)

On this day...

July 9: Independence Day in **Argentina** (1816) and **South Sudan** (2011)

- 455 – Roman military commander **Avitus** was proclaimed Emperor of the Western Roman Empire.
- 869 – **An earthquake and subsequent tsunami** struck the area around **Sendai**, Japan, leaving sand deposits up to 2.5 miles (4 km) inland.
- 1850 – Following **Zachary Taylor's** death, **Millard Fillmore** (*pictured*) became **President of the United States**, the last member of the **Whig Party** to hold that office.
- 1962 – In a seminal moment for pop art, **Andy Warhol's** *Campbell's Soup Cans* exhibition opened at the **Ferus Gallery** in Los Angeles.
- 2008 – Under the belief that Israel and the United States were planning to attack its nuclear programme, Iran conducted the **Great Prophet III** missile test and war games exercise.



More anniversaries: [July 8](#) – [July 9](#) – [July 10](#)

[Archive](#) – [By email](#) – [List of historical anniversaries](#)

Grids



Visual Clutter

Clutter creates visual noise and
makes an application hard to use

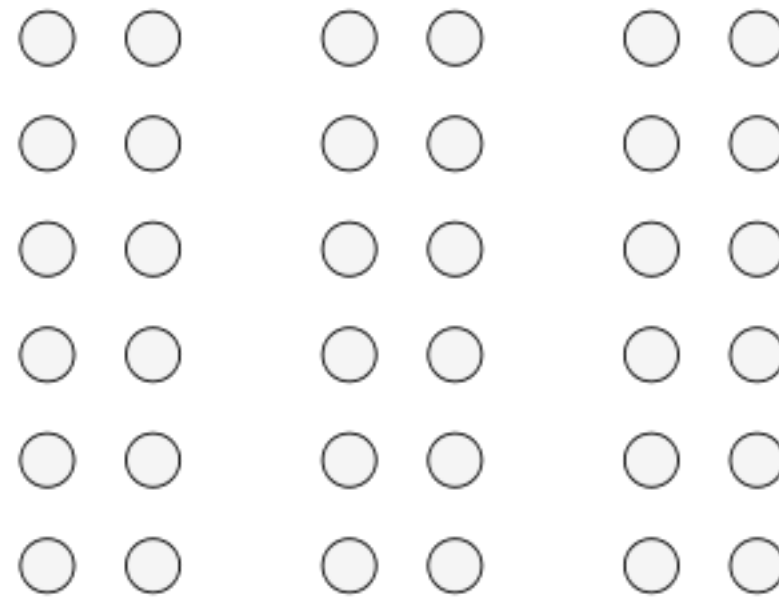
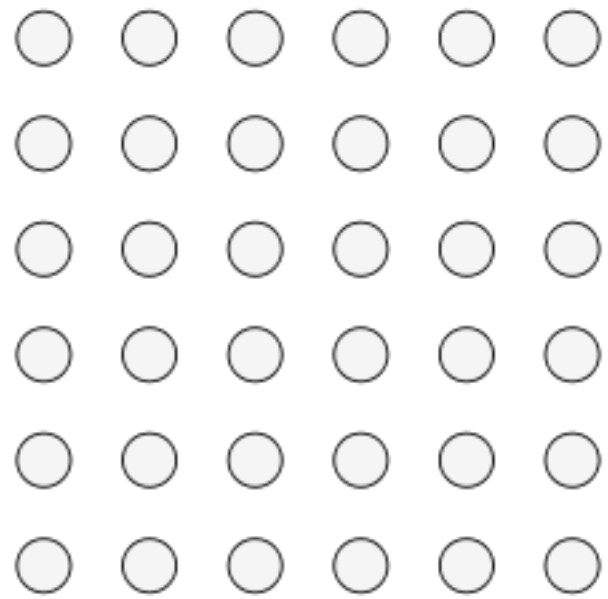
Gestalt Psychology

- The Gestalt laws prescribe for us what we are to recognise as one thing' (Köhler, 1920)
- How smaller objects are grouped to form larger ones
- Rules of the organisation of perceptual scenes (Heuristics)

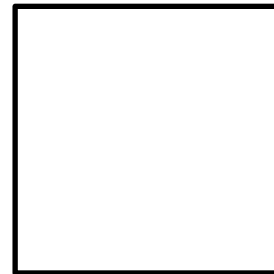
Gestalt Laws

- Proximity
- Collinearity
- Co[circularity
- Continuity
- Parallelism
- Symmetry
- Closure
- Convexity

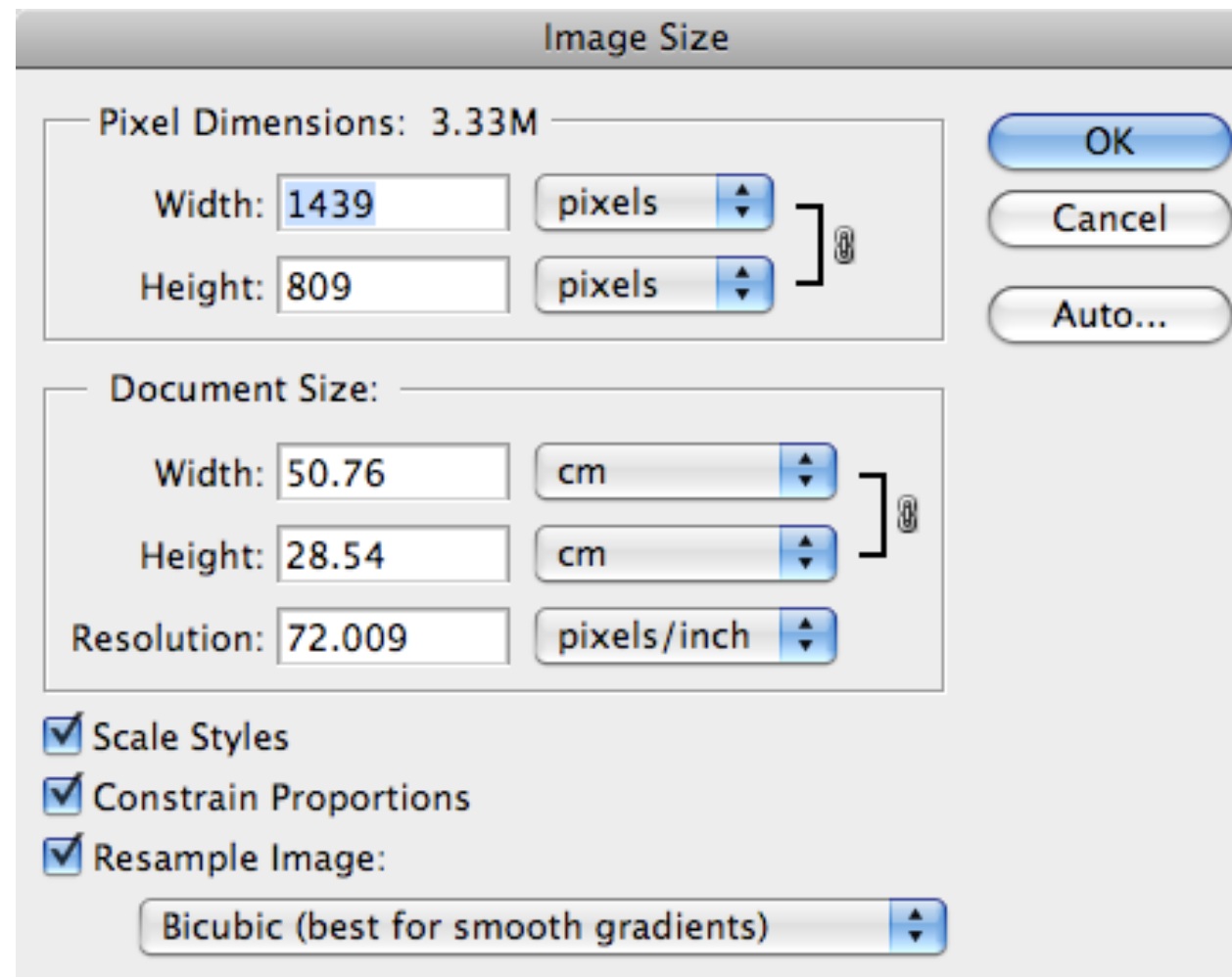
...



Proximity & Grouping



Alignment



By grouping similar elements together, the designer helps the user deal with a complex information display by reducing it to a manageable number of units.



Primary Action / Secondary Action



All form actions are not equal, and therefore the visual presentation of actions should match their importance to make it easier to complete a form.

Visual distinction helps users make “good” choices.



Example: "Web Design, Filling the Blanks"



Yammer



Constraint

source : [2]

Constraints are closely related to real affordances: For example, it is not possible to move the cursor outside the screen: this is a physical constraint.

Locking the mouse button when clicking is not desired would be a physical constraint. Restricting the cursor to exist only in screen locations where its position is meaningful is a physical constraint.

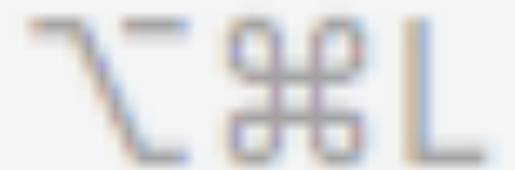
Flip Horizontally

Flip Vertically

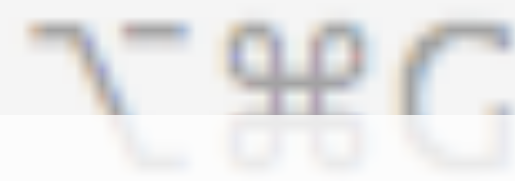
Lock



Unlock



Group



Visual Constraint

Ungroup



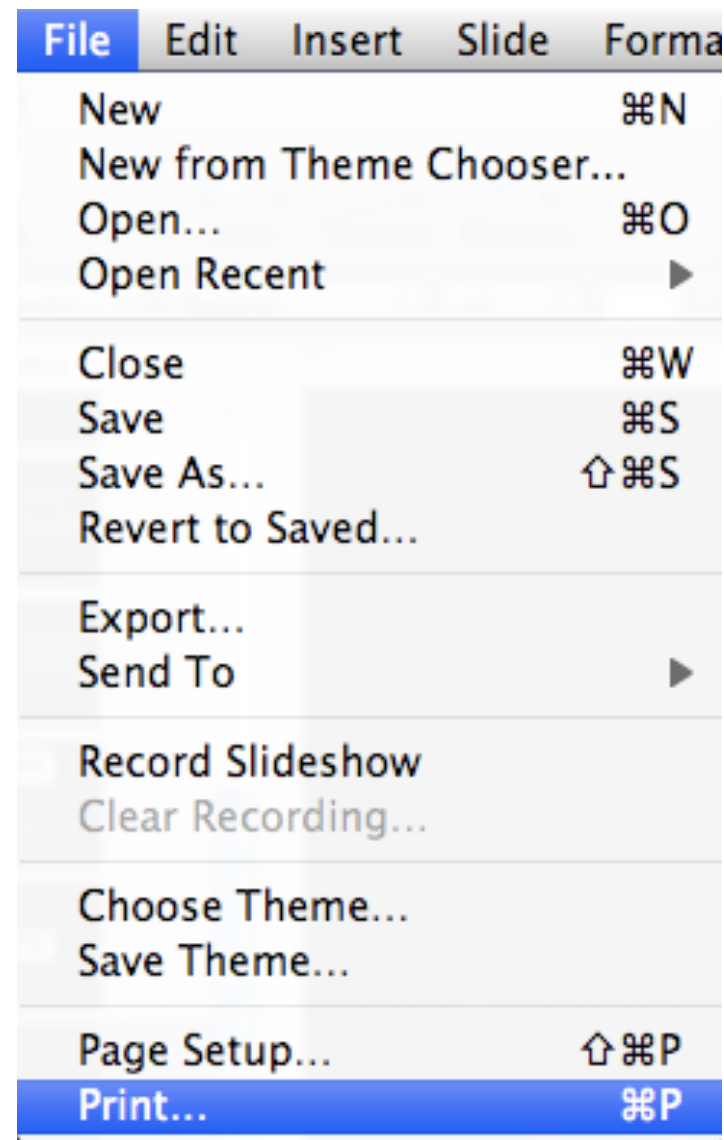
source : [2]

Scalability of Interfaces / Flexibility



80/20 rule

source : [1]



A principle for setting priorities: users will use 20% of the features of your product 80% of the time. Focus the majority of your design and development effort (80%) on the most important 20% of the product.

URL:

Hosts
 Span All
 Allow List ->

Reject List ->

Accept/Reject
 Accept: Reject:
 htm(l) gif
 jpg txt
 zip exe
 doc All
Custom list:

Special
Retries:
Additional Parameters:

 Act like a browser
 Convert links
 Ignore robots.txt

Running Options
 Go 2 background
 No info
 All info
 Some info
 Append to logfile
 Overwrite Logfile
Logfile:

Retrieval Options
 No clobber
 Timestamping
 Continue file download
Quota (kB):
 Spider (check for files)
 No directories
 Force directories
 Save to custom dir:

 Clear Server Cache
 Recursive Retrieval
Depth:
 Download "as-is"
 Mirror site
 add HTML suffix
 Only go deeper

Overcrowded Widget

Users are overwhelmed by options, limitless flexibility

Only show me what I need to see

Implement one easy to discover and easy to learn core pattern for common actions across the platform.

Adjust to users' preferences.

Make less common actions harder to reach.



Aesthetic-Usability Effect

source : [1]



Aesthetic-Usability Effect

Aesthetic designs are perceived as easier to use than less-aesthetic designs.

Aesthetic designs look easier to use and have a higher probability of being used, whether or not they actually are easier to use.

source : [1]

The flexibility-usability tradeoff is exemplified in the well known maxim “jack of all trades, master of none”.

Flexible designs can perform more functions than specialised designs, but they perform the functions less efficiently.





Fonts

Rule of thumb

Courier
CourierBold
CourierBoldOblique
Helvetica
HelveticaBold
HelveticaBoldOblique
HelveticaOblique
TimesBold
TimesBoldItalic
TimesItalic
TimesRoman

- two general groups: serif & sans serif
- sans serif can be scanned quickly
- avoid very heavy or light typefaces for UIs
- avoid combining too similar typefaces
- stick with standards first

- On computer displays, sans-serif fonts often work better at very small point sizes, unlike print, in which the serified fonts tend to be more readable as body text.
- Avoid italicized, cursive, or otherwise ornamental fonts;
- Highly geometric fonts tend to be difficult to read at small point sizes, as the circular letters (e, c, d, o, etc.).



Courier
CourierBold
CourierBoldOblique
Helvetica
HelveticaBold
HelveticaBoldOblique
HelveticaOblique
TimesBold
TimesBoldItalic
TimesItalic
TimesRoman

Courier
CourierBold
CourierBoldOblique
Helvetica
HelveticaBold
HelveticaBoldOblique
HelveticaOblique
TimesBold
TimesBoldItalic
TimesItalic
TimesRoman

- All-caps is too hard to read for body text, though it works fine for headlines and short texts. Capital letters tend to look similar, and are hard for a reader to differentiate.
- Set large amounts of text in a medium-width column when possible—say, around 10 to 12 English words on average. Don't right-justify narrower columns of text; let it be "ragged right."

A B C D E F

A B C D E F

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed a sem. Nullam nonummy libero id libero. Donec libero erat, consequat in, tincidunt at, malesuada id, urna. Fusce tincidunt consectetur ante. Nam sit amet lorem. Nulla nec ante ac risus tincidunt suscipit. Aliquam luctus. Vivamus lobortis odio at risus porttitor ultrices. Maecenas odio libero, rhoncus et, dignissim id, rhoncus at, quam. Vivamus dolor. Quisque feugiat fringilla enim.

Didot

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed a sem. Nullam nonummy libero id libero. Donec libero erat, consequat in, tincidunt at, malesuada id, urna. Fusce tincidunt consectetur ante. Nam sit amet lorem. Nulla nec ante ac risus tincidunt suscipit. Aliquam luctus. Vivamus lobortis odio at risus porttitor ultrices. Maecenas odio libero, rhoncus et, dignissim id, rhoncus at, quam. Vivamus dolor. Quisque feugiat fringilla enim.

Georgia

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Goudy Old Style

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Futura

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Verdana

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Arial Narrow

THIN

Roboto

BLACK SMALL CAPS

SUNGLASSES

ITALIC

Self-driving robot ice cream truck

BOLD

Fudgesicles only 25¢

BOLD CONDENSED

ICE CREAM

MEDIUM

Marshmallows & almonds

LIGHT

#9876543210

BOLD ITALIC

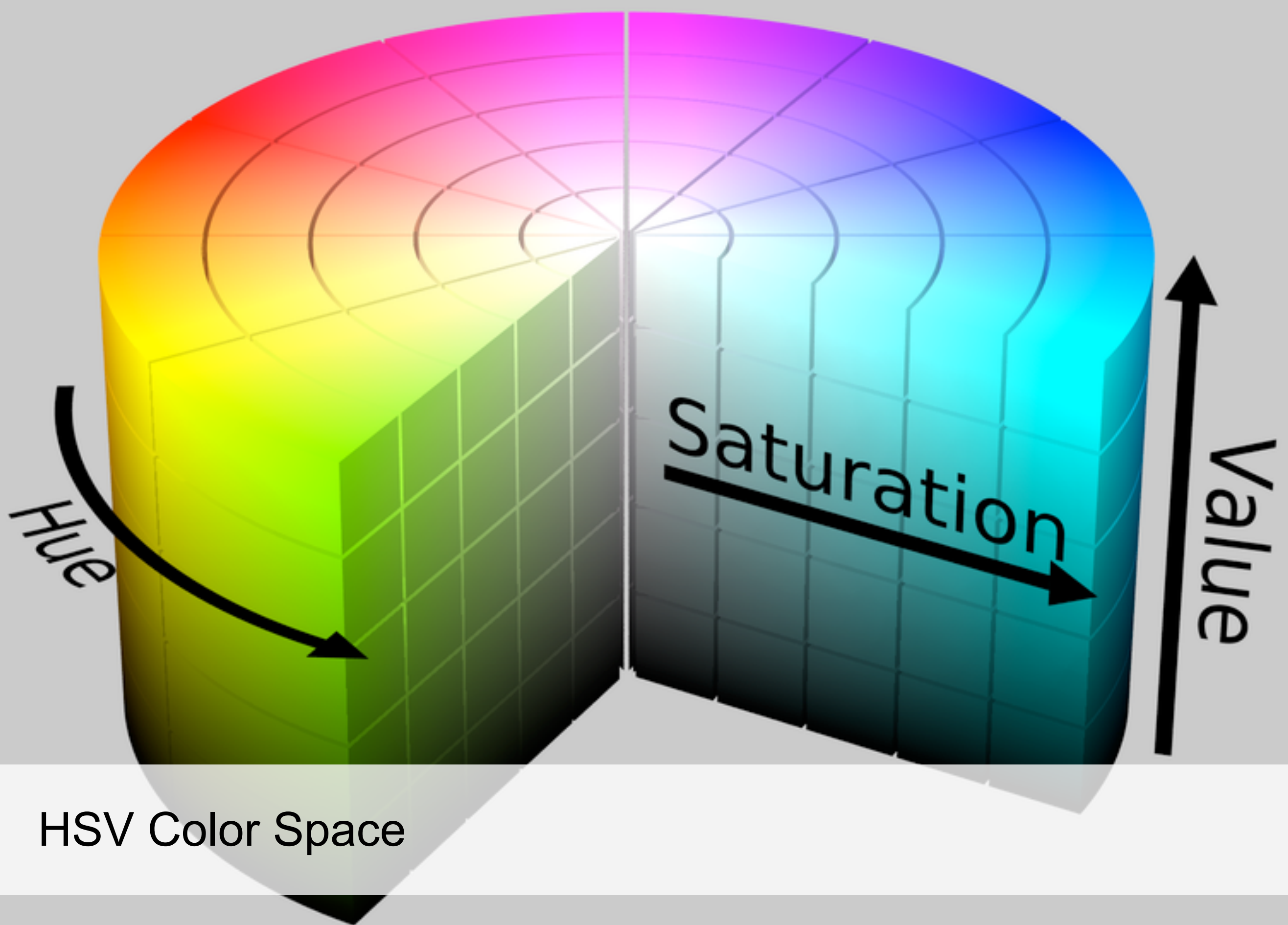
Music around the block

REGULAR

Summer heat rising up from the sidewalk

source : [5]

Color



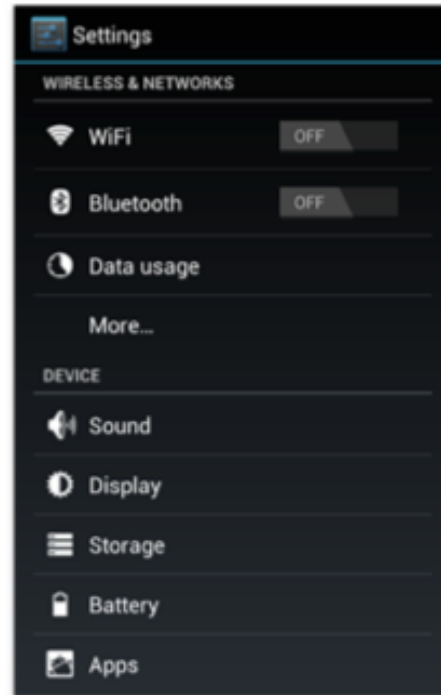
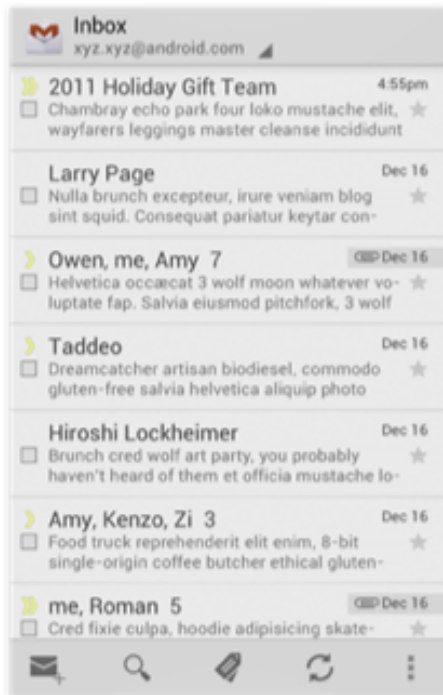
HSV Color Space

- three main properties: hue, saturation (or intensity) and value (or brightness)
- hue refers to the color itself (the particular color within the optical (visible) spectrum of light), saturation refers to the brightness, value refers to the amount of black in a color

- color can provide cues for use
- color can establish a relationship
- color can indicate importance
- consider human factors such as color blindness and cultural differences

Warm versus cool
Dark versus light background
High versus low contrast
Saturated versus unsaturated
Combinations of hues

Colors



source : [5]

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EMAIL ARTIST AT: kvalimaki@aol.com

SOME SAY TIMES ARE CHANGING,
Hosanna Afghans HISTORY Page CLICK HERE

From the Mouths of Babes
~~~~~  
*My daughter said, 'I wonder...'*  
~~~~~  
I had NEVER thought of that, so I did a Bible Search...

NEVER FORGET!



LOST AFGHAN HOUNDS
Joy - in Indiana
CLICK HERE

PRECIOUS is still lost

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Questionable Website



Google

Google Search

I'm Feeling Lucky

Google Search Page



Show All

Language For

Region: Custom

Dates

Saturday, 5 January 2008

5 January 2008

5 Jan 2008

Contrast

Effective design creates no more contrast than necessary.

This allows the viewer to easily identify the elements in question as a strongly defined subset of the available information.



Show All

Language **For**

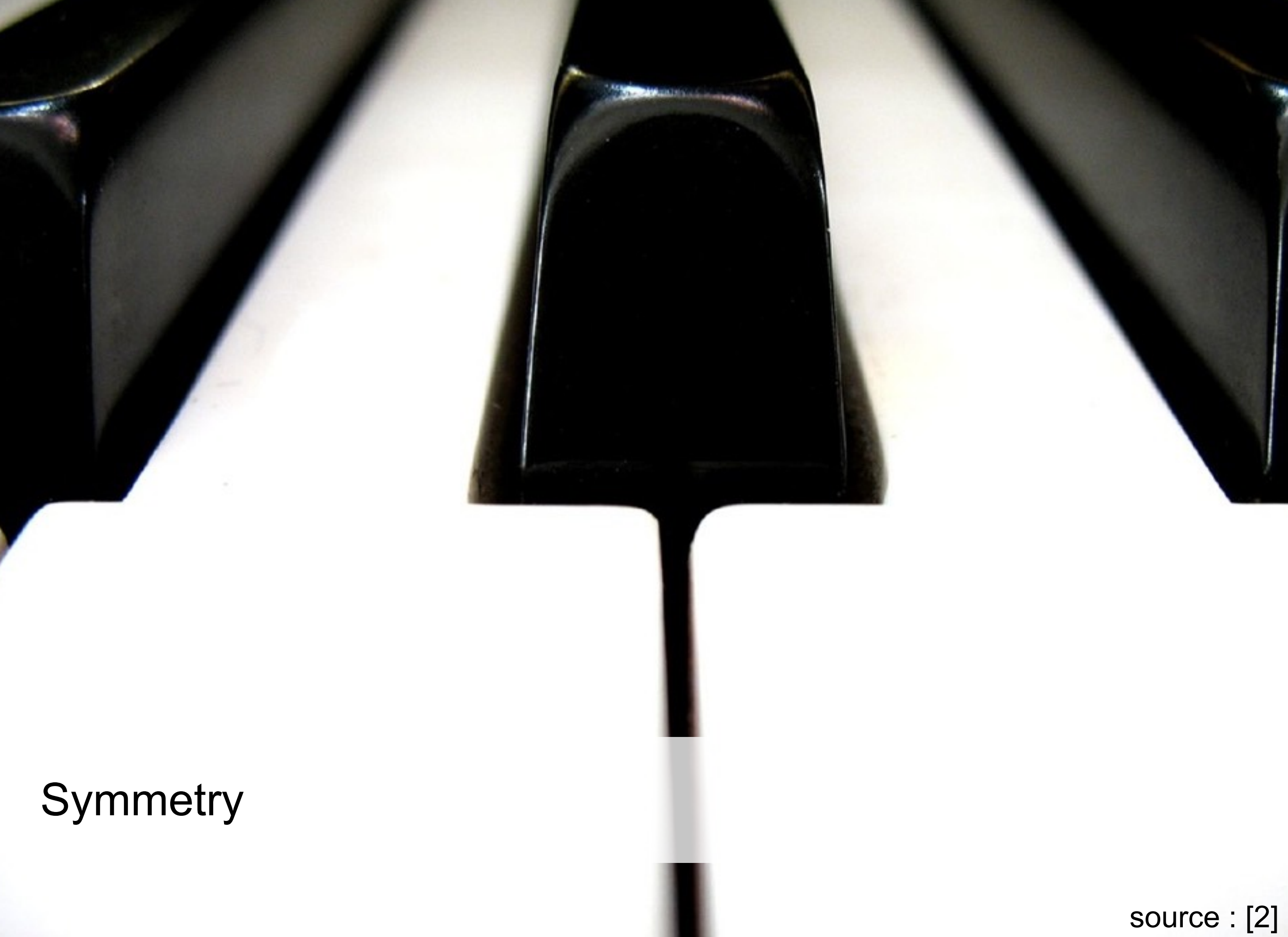
Region: Custom

Dates

Saturday, 5 January 2008

5 January 2008

5 Jan 2008



Symmetry

source : [2]

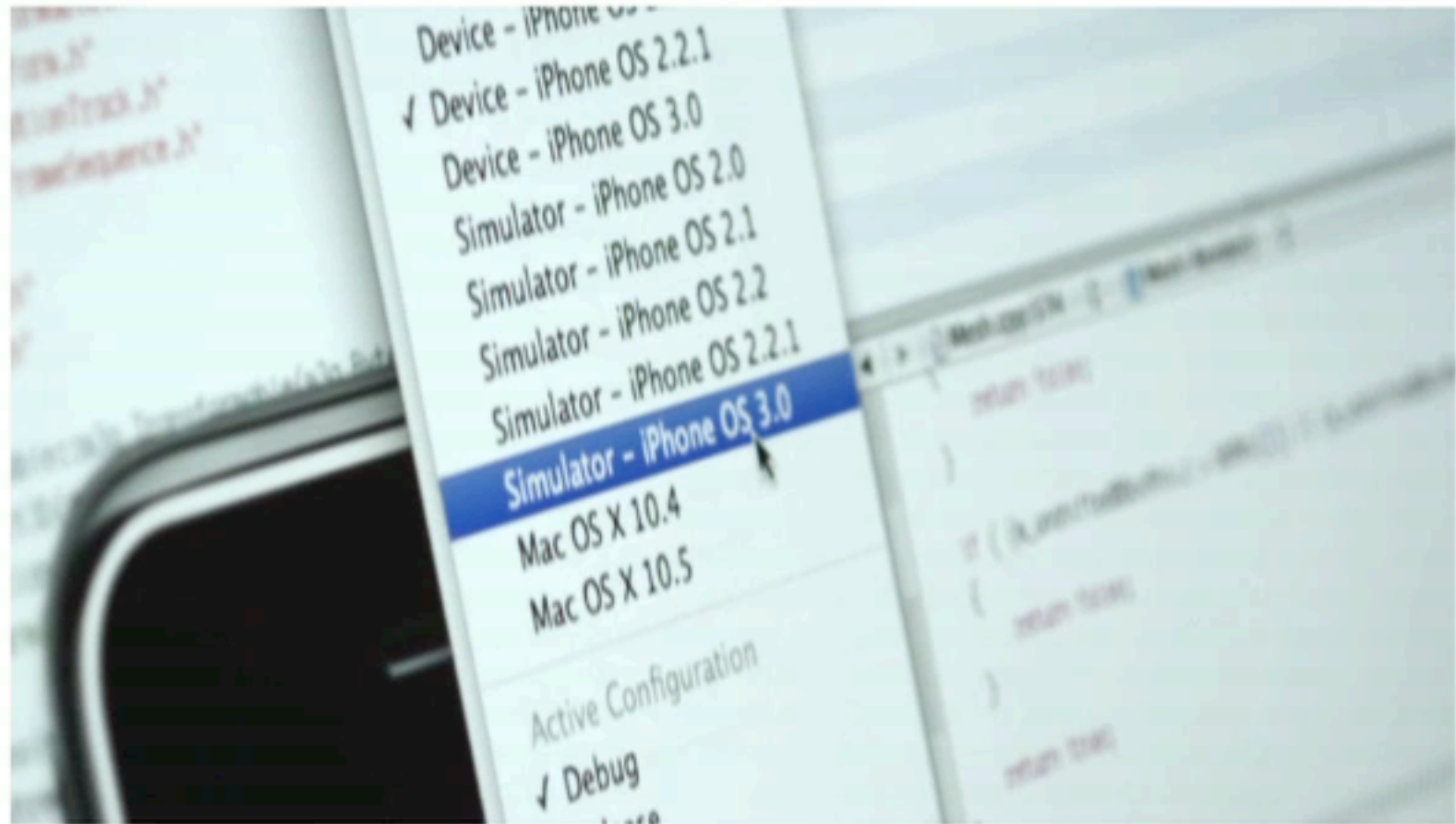


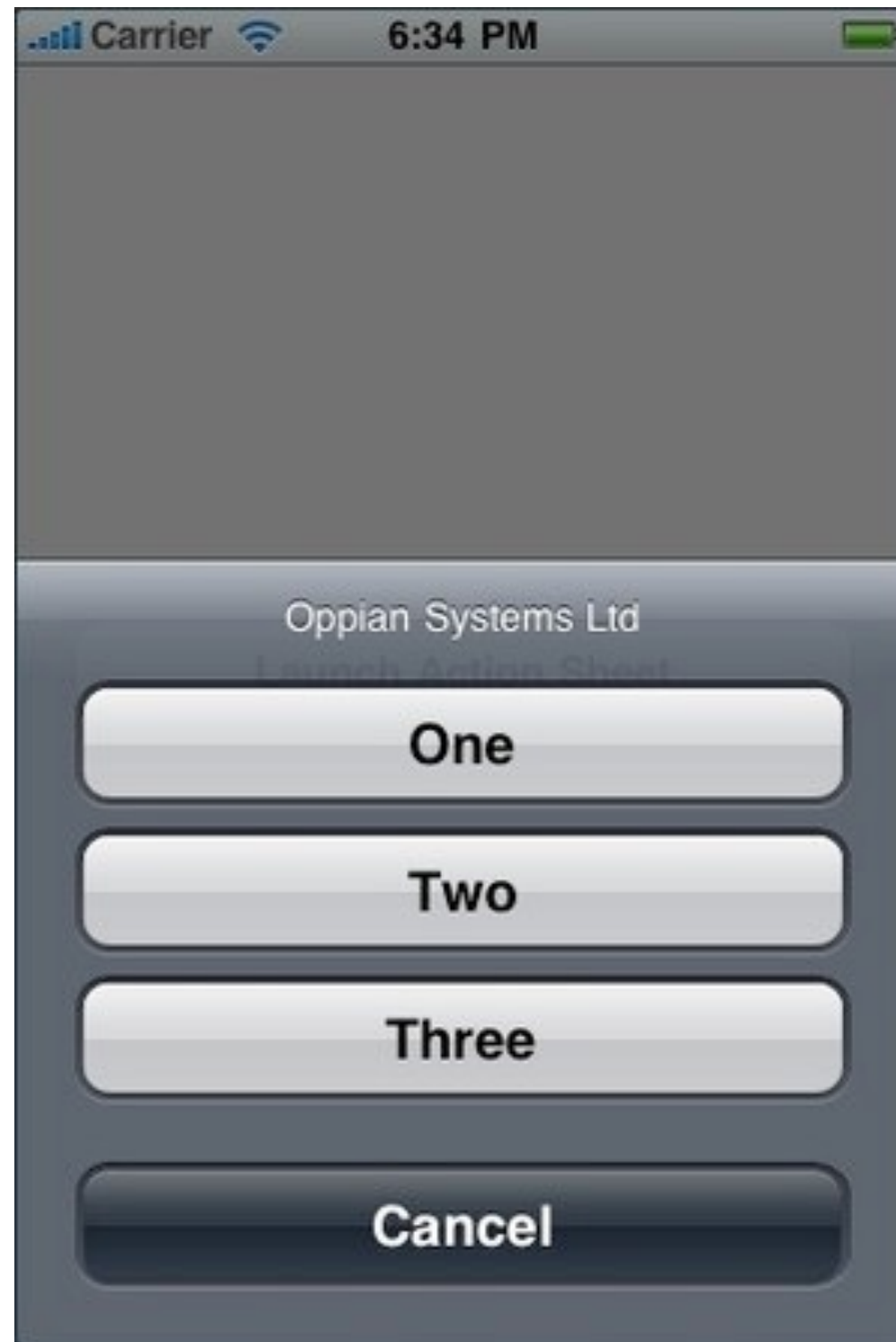
Symmetry ensures balance and clear organisation, if sometimes at the expense of visual interest. While this may be a drawback for a poster or retail packaging, it is perfectly appropriate for a user interface.

UI Kits

iPhone

Developing Apps for iPhone





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[MOST FAVORITES](#)



Browse Palettes

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[MONTH](#)
[ALL](#)

- Giant Goldfish** by manekineko

508	3005	232796	3510
COMMENTS	FAVORITES	VIEWS	LOVES
- Thought Provoking** by Miss_Anthropy

285	1938	139170	2738
COMMENTS	FAVORITES	VIEWS	LOVES
- Terra?** by GlueStudio

442	1567	89562	1463
COMMENTS	FAVORITES	VIEWS	LOVES

RECENT PALETTE COMMENTS

huege POSTED 2 MINUTES AGO

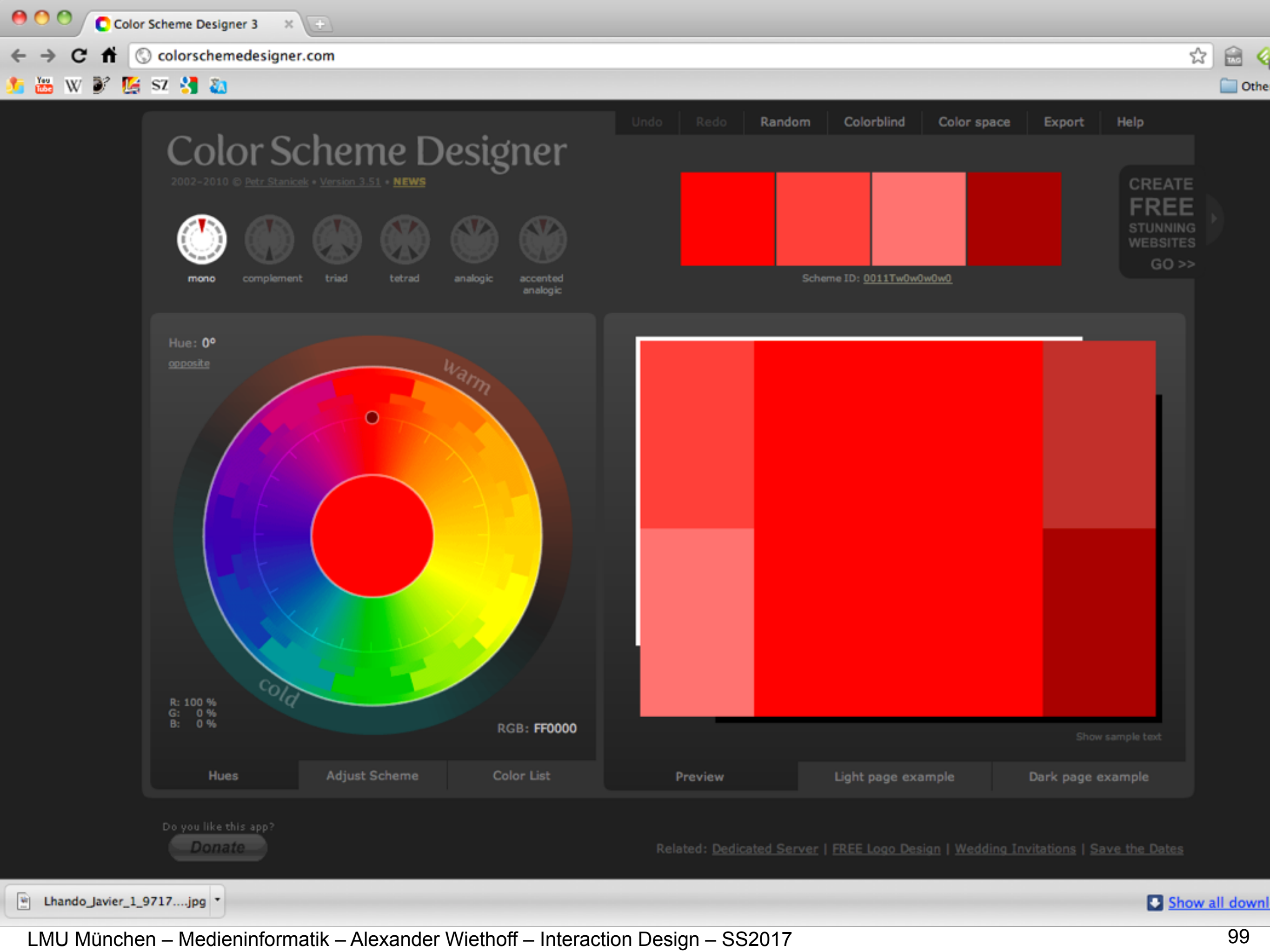
Lovely pattern Dawn! After a few minutes of looking at it, I realized she had a cigarette :) American Women wrote:

Smoking Lady by American Womer

3
 0
 Rank #137256
 COLOURlovers.com

huege wrote:

I love it! I don't know why, but to me this looks like the palette should on a package of cigarettes. I don't even smoke, but I love the palette so much that I think it's making me want to start smoking?!?!

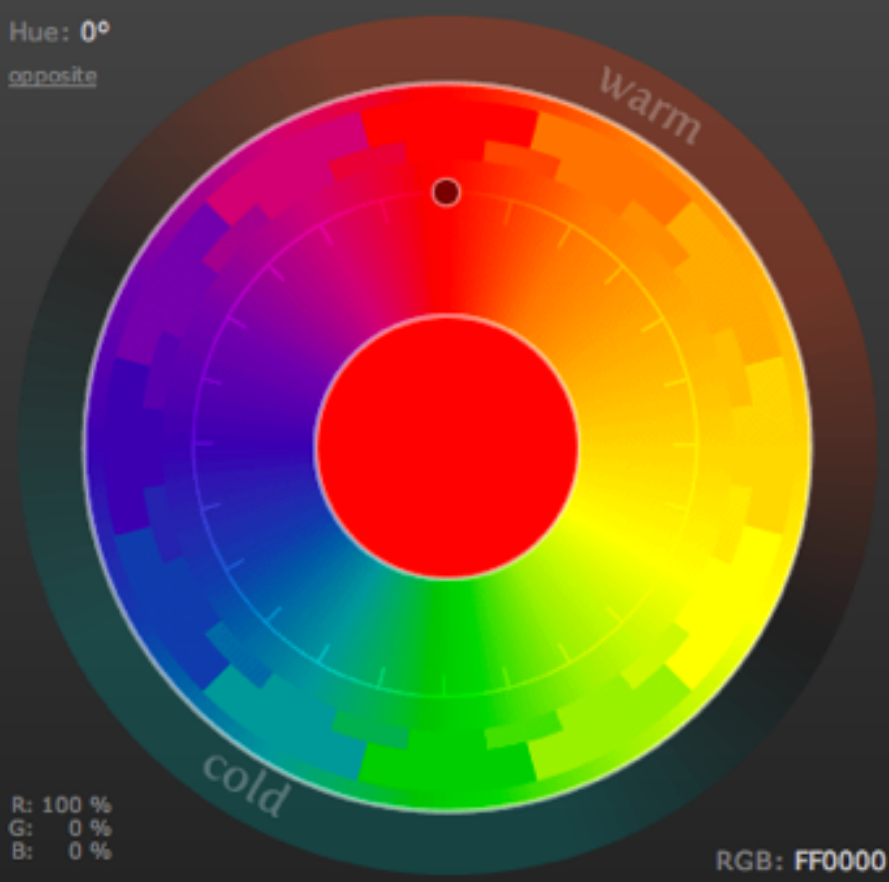


Color Scheme Designer

2002-2010 © Petr Stanicek • Version 3.51 • [NEWS](#)

- mono
- complement
- triad
- tetrad
- analogic
- accented analogic

Hue: 0°
[opposite](#)



R: 100 %
G: 0 %
B: 0 %

RGB: FF0000

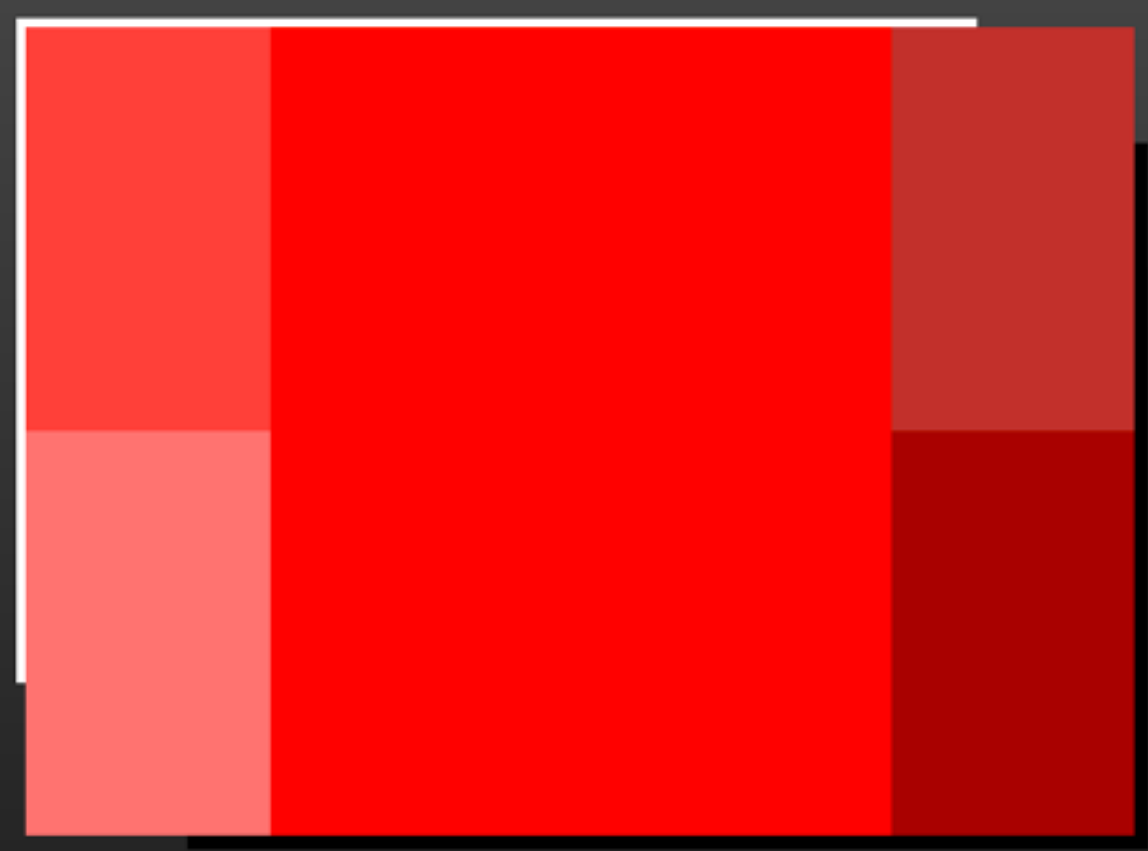
- Hues
- Adjust Scheme
- Color List

- Undo
- Redo
- Random
- Colorblind
- Color space
- Export
- Help



Scheme ID: [0011Tw0w0w0w0](#)

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GO >>



- Preview
- Light page example
- Dark page example

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Lhando_Javier_1_9717....jpg

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Graphical User Interface Design

- Principles
- Layout, Typography, Color & Contrast
- Controls and Widgets
- Simplicity



Switch

<http://fbeleec.en.made-in-china.com/product/QeZnlxqKZik/China-Switch.html>



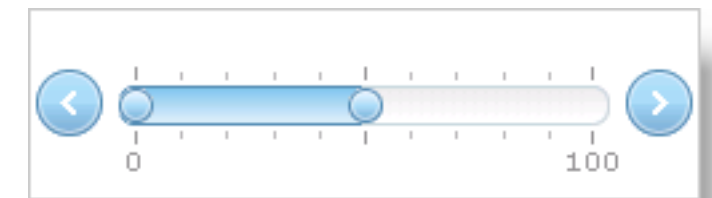
Button

[http://www.conrad.de/ce/de/product/701855/Vandalismusgeschuetzter-Taster-16-mm-mit-Ringbeleuchtung-48-VDC-2-A-GQ16F-10EJB12V-Loetpins-48-VDC-2-A/SHOP_AREA_17386&promotionareaSearchDetail=005](http://www.conrad.de/ce/de/product/701855/Vandalismusgeschuetzter-Taster-16-mm-mit-Ringbeleuchtung-48-VDC-2-A-GQ16F-10EJB12V-Loetpins-48-VDC-2-A/)



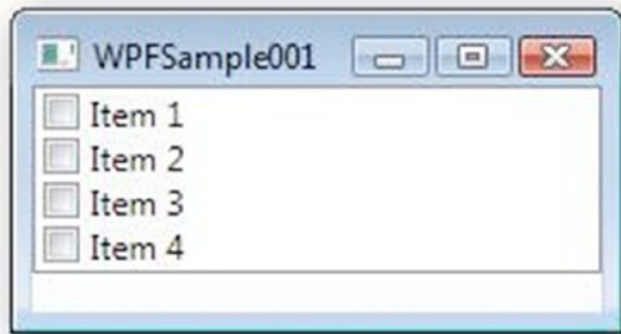
Dial

<http://www.conrad.de/ce/de/product/718295/Universal-Geraetknopf-mit-Skala-A-x-B-x-C-mm-23-x-37-x-233-Aluminium-eloxiert-Aluminium-eloxiert-Achs-Durchmesser/?ref=search>



Slider

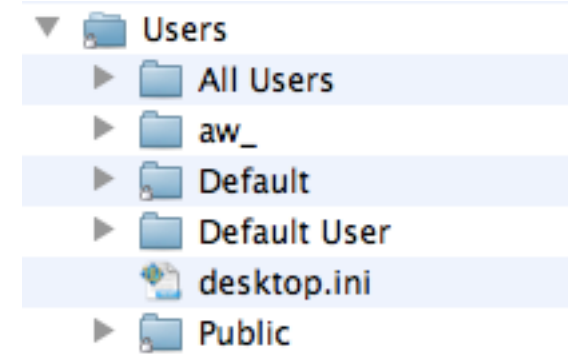
http://help.infragistics.com/Help/NetAdvantage/ASPNET/2011.2/CLR4.0/html/images/Web_New_WebSlider_Control.png



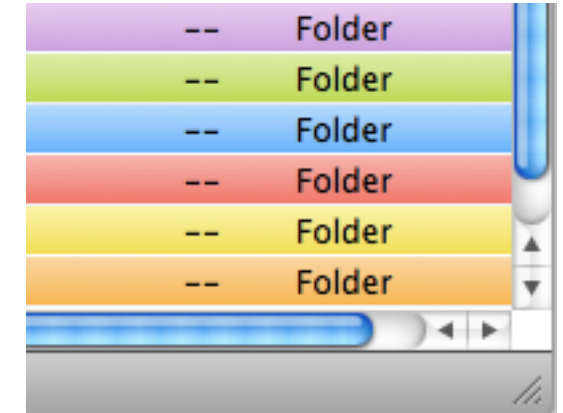
Checkbox



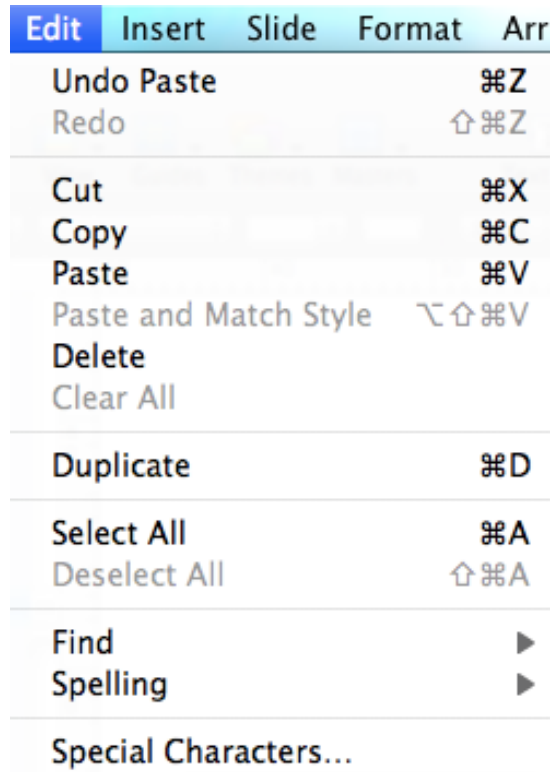
Radio Button



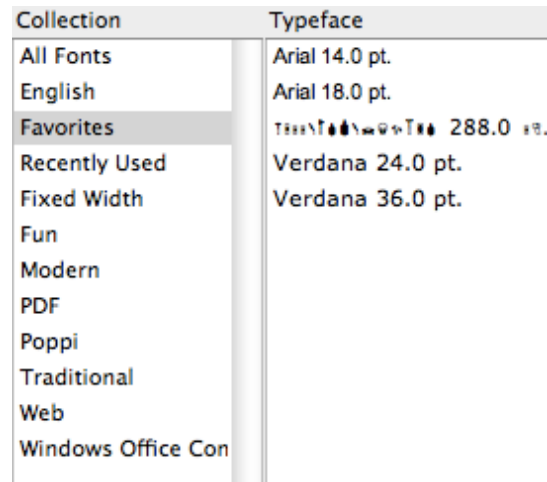
Twist



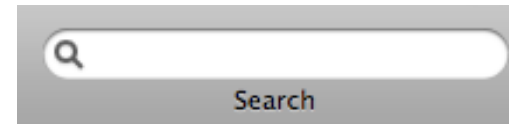
Scroll Bar



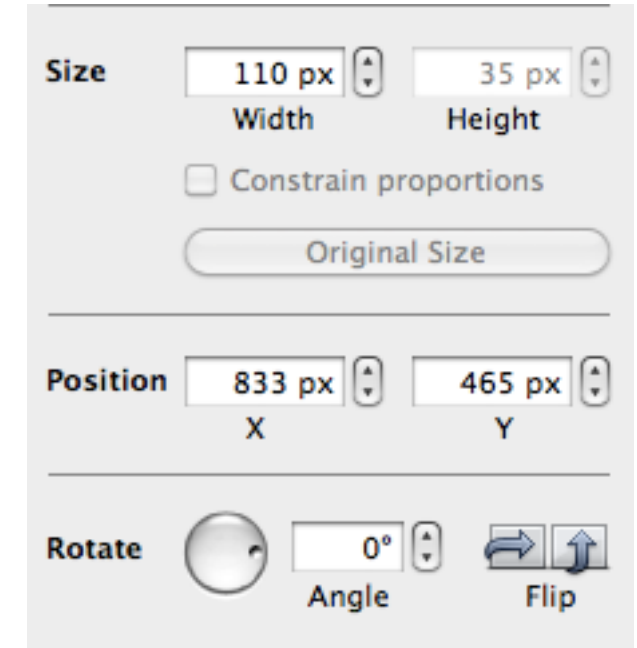
Drop-down menu



Multiple Selection List



Text Box



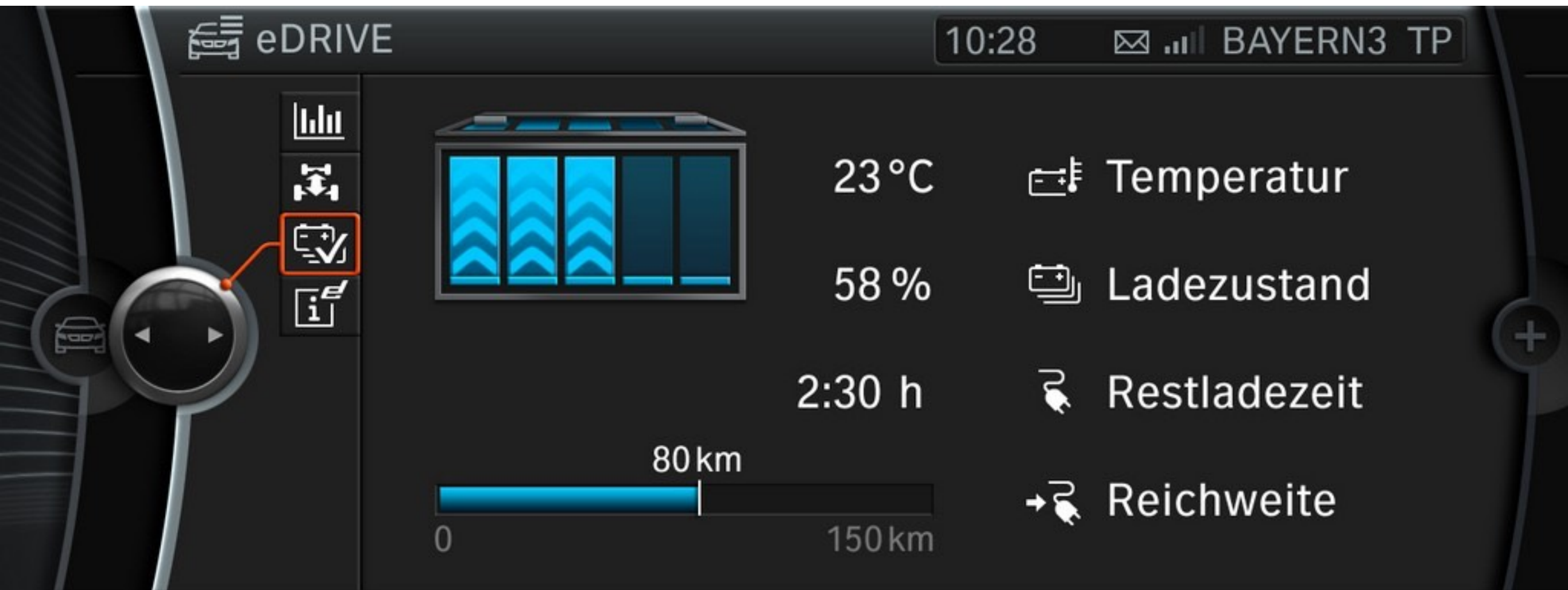
Spin Box



Controls



Controls



Mapping of Representation and Control

Graphical User Interface Design

- Principles
- Layout, Typography, Color & Contrast
- Controls and Widgets
- Simplicity



Simplicity



Approachability

Simple designs can be rapidly apprehended and understood well enough to support immediate use or invite further exploration.



Recognisability

Simple designs can be recognised more easily than their more elaborate counterparts. Because they present less visual information to the viewer, they are more easily assimilated, understood and remembered.



Immediacy

Simple designs have a greater impact than complex designs, precisely because they can be immediately recognised and understood with a minimum of conscious effort.



Usability

Improving the approachability and memorability of a product necessarily enhances usability as well. Simple designs that eliminate unnecessary variation or detail make the variation that remains more prominent and informative.

source : [2]

Reduction through successive refinement is the only path to simplicity

Reduction means that you eliminate whatever isn't necessary. This technique has three steps: (1) decide what essentially needs to be conveyed by the design; (2) critically examine every element (feature, label, UI widget, etc.) to decide whether it serves an essential purpose; (3) remove it if it isn't essential.

References (Books):

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- [2] Mullet K. and D. Sano, Designing Visual Interfaces: Communication Oriented Techniques, 1st ed. *Prentice Hall, 1994.*
- [3] Moggridge, B. Designing Interactions, *MIT Press, 2006.*
- [4] Saffer, D. Designing for Interaction, *New Riders 2009.*
- [5] Ouilhet, H. The soul of the new machine: A story about Android design, *UX LMU Talks 2011-12.*
- [6] Buxton, W. Sketching the User Experience, Elsevier 2007
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- [8] Fiedler, J. & Feierabend, P. Bauhaus, *Könemann in der Tandem Verlags-GmbH 2005.*
- [9] Tidwell, J. Designing Interfaces, *Wiley and Sons Publishers 2010.*