

User Experience Design I (Interaction Design)

Simplicity and Design

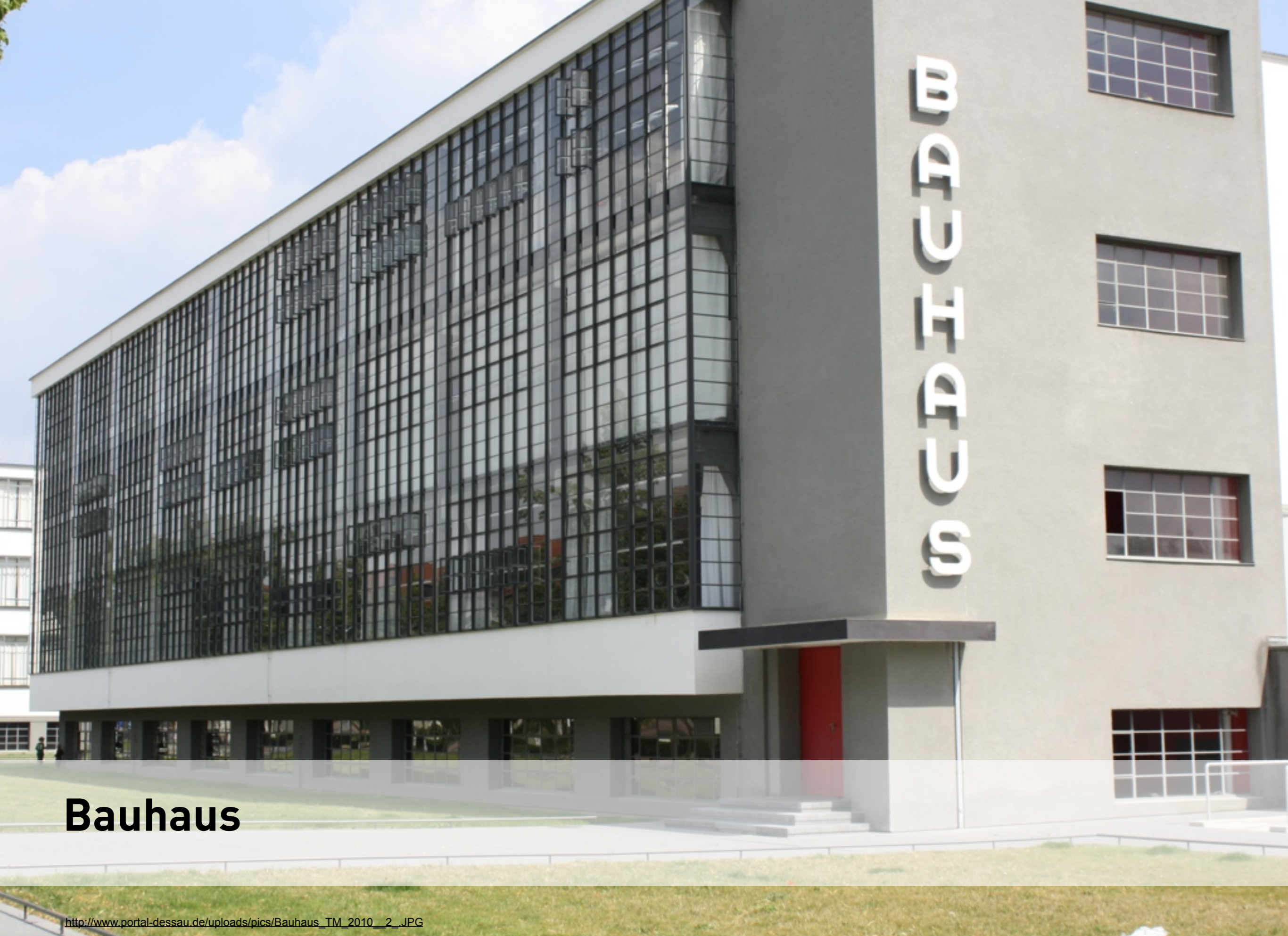
Part One

"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/>

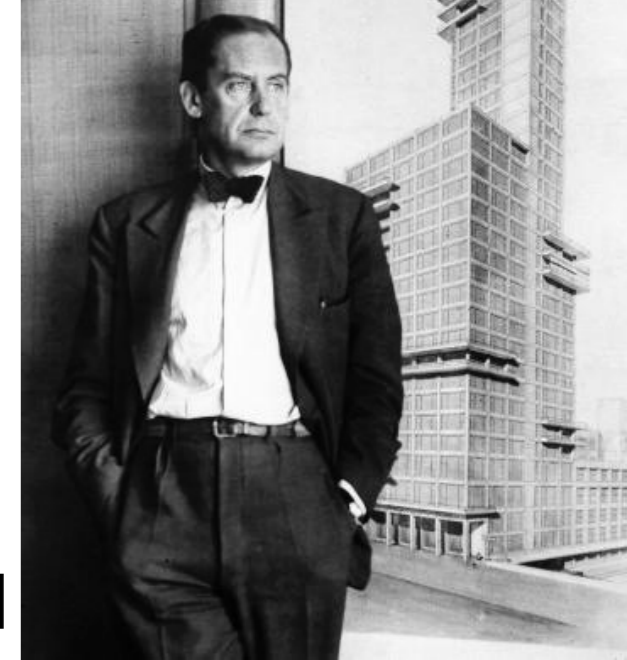
Key Dates:

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]



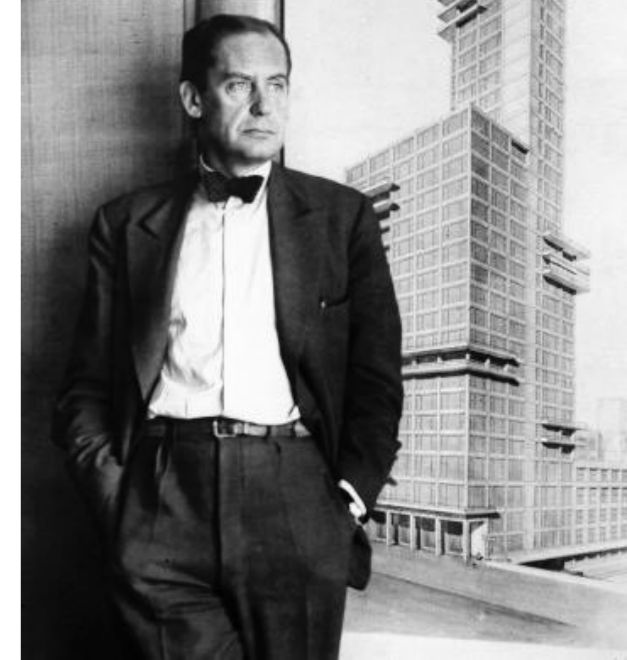
source: [7]

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



Design and Simplicity

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



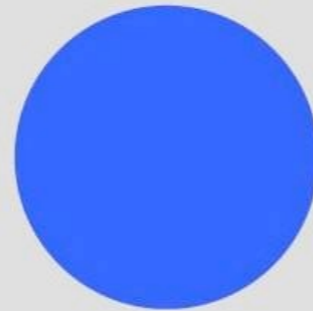
Pre-Course



Prototyping Design

BAUHAUS

Hrsg.
Jeannine Fiedler
Peter Feierabend

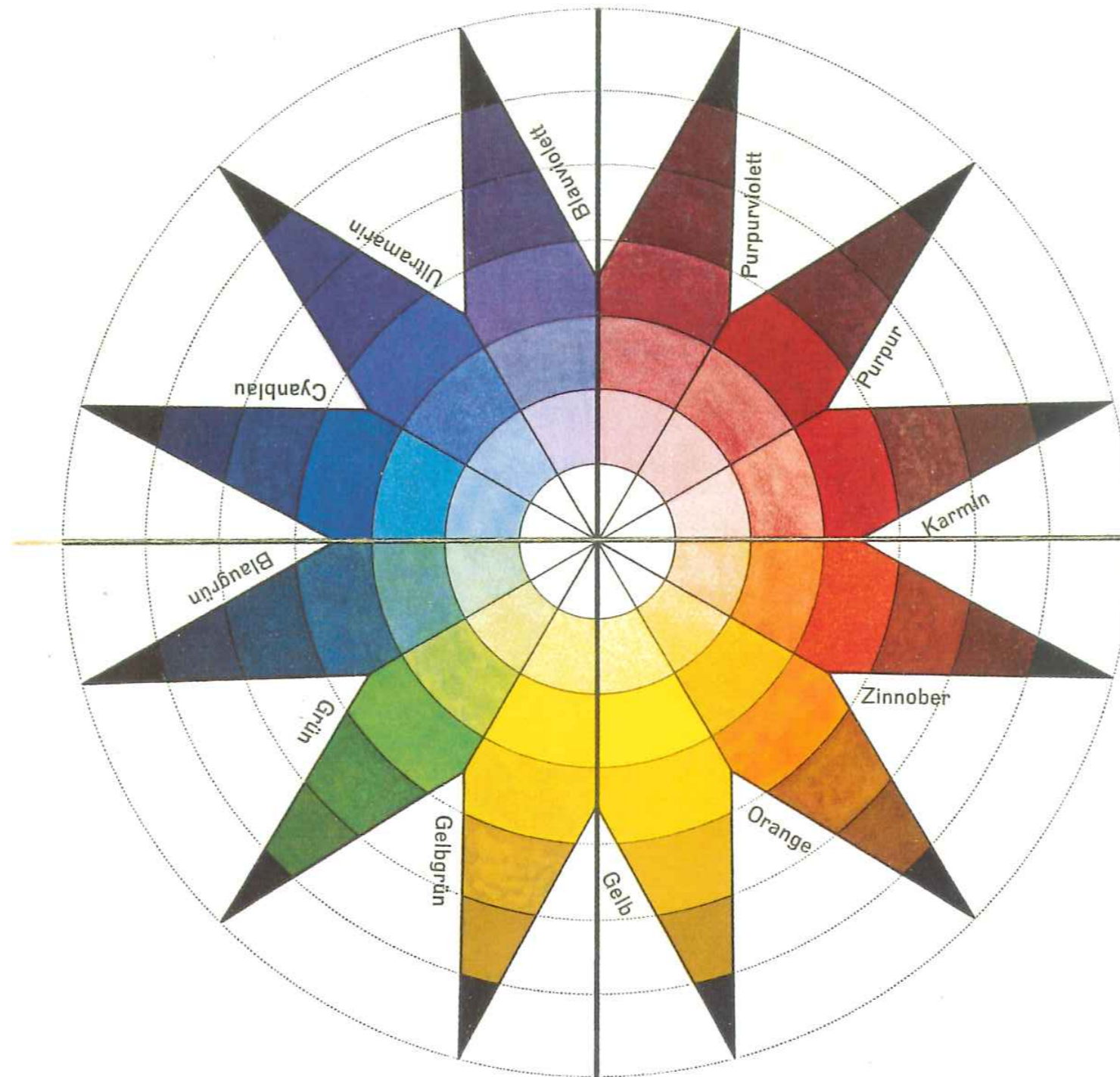


Basic Shapes

*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



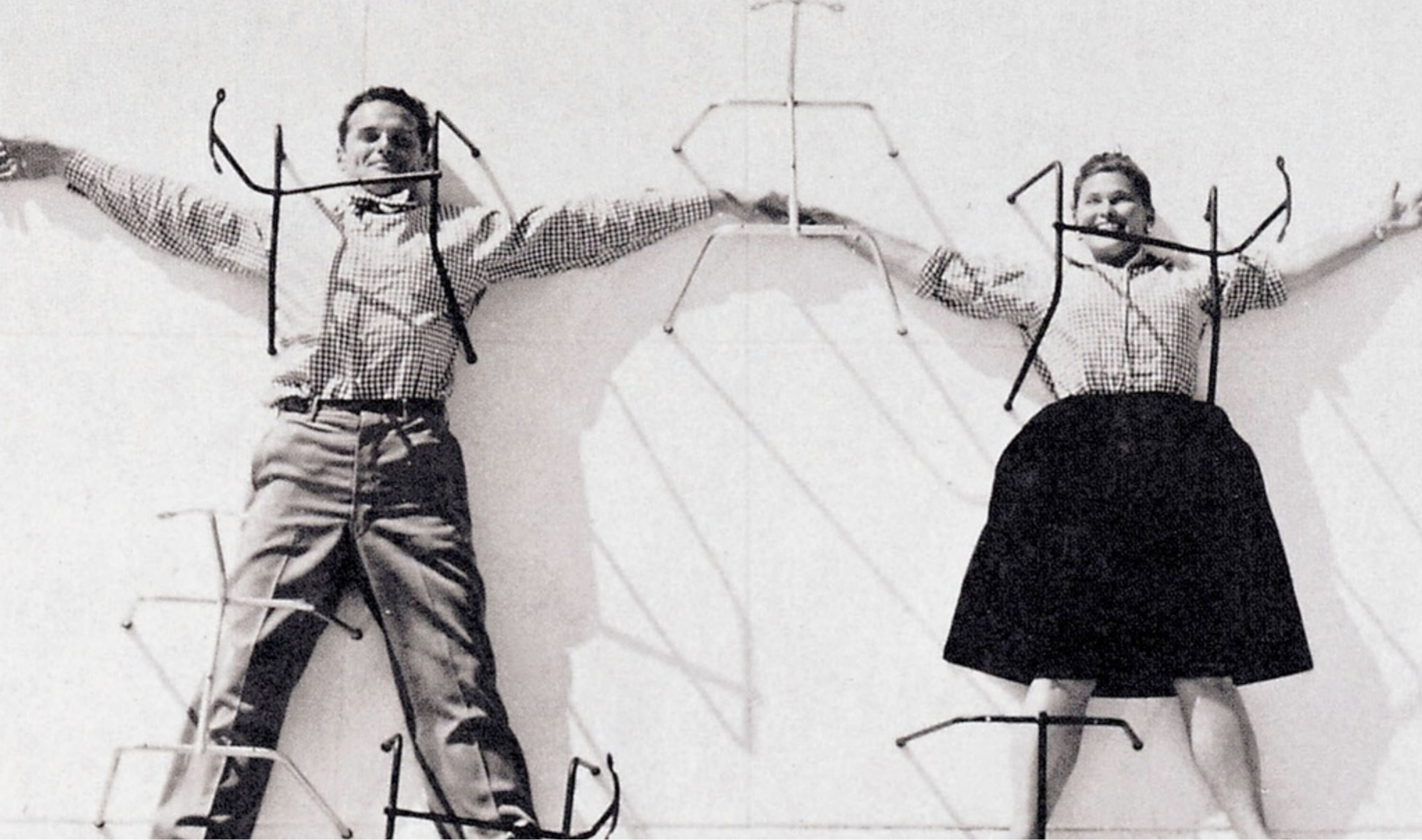
<http://remodelista.com/img/sub/oilcruet2.jpg>



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

Requirements:

- Type(s) (variations of the original design)
- Basic shape(s) - few simple parts (industrial manufacturing)
- Functionality (design for human needs)

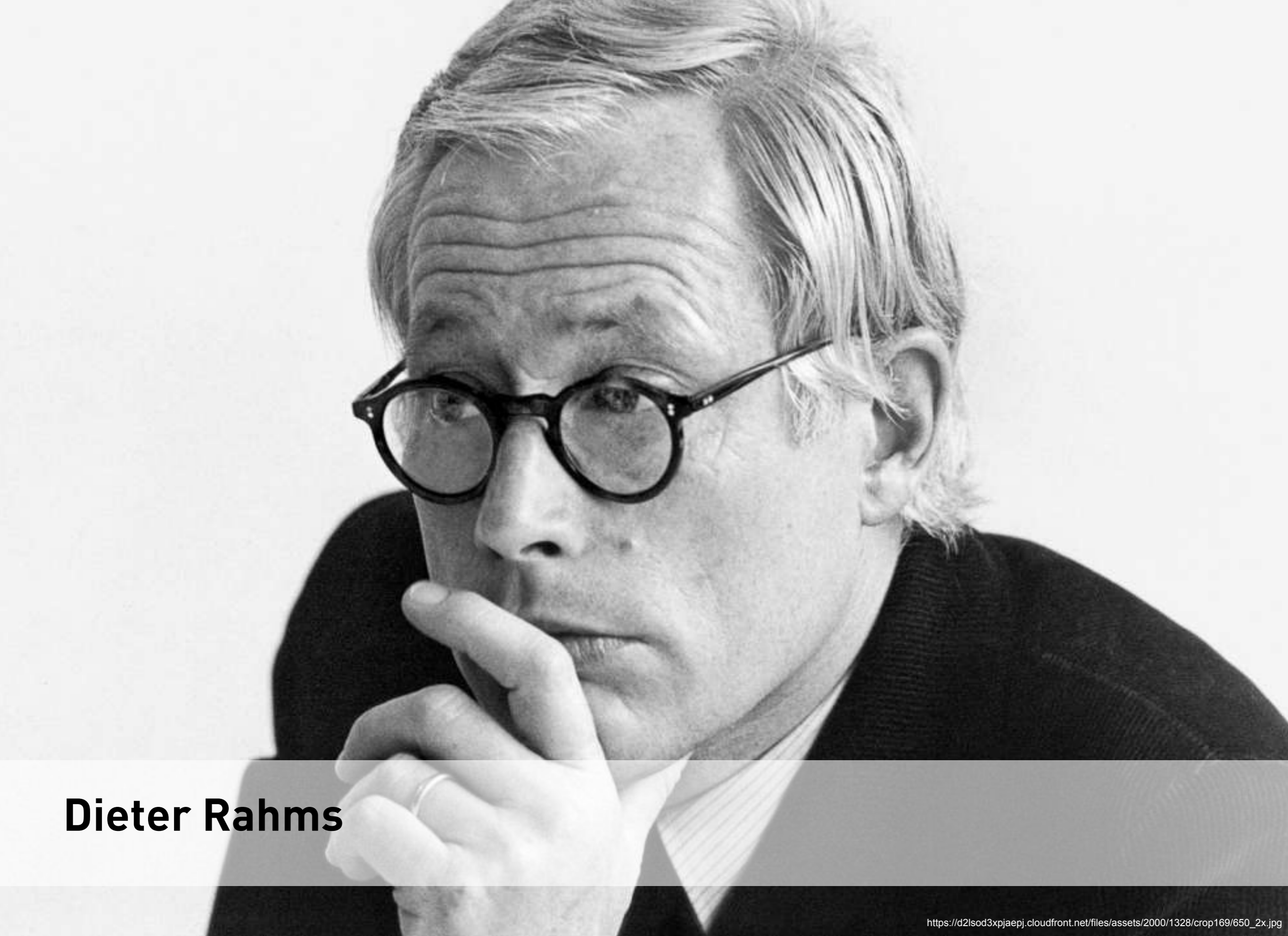


Charles and Ray Eames

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

Ray & Charles Eames



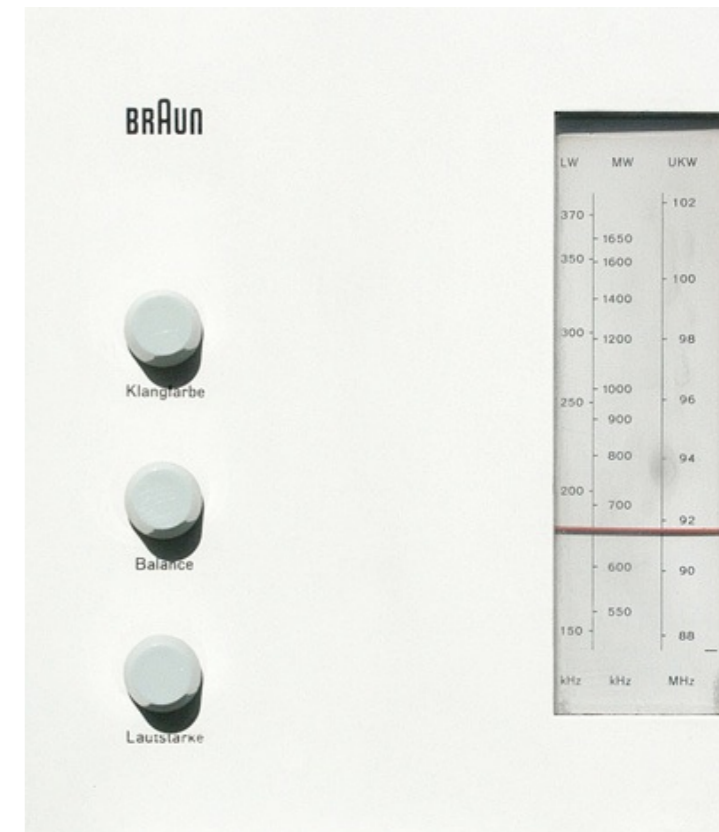


Dieter Rahms

Ten Principles: Good design...

- 1. is innovative** – The possibilities for progression are not, by any means, exhausted. Technological development is always offering new opportunities for original designs. But imaginative design always develops in tandem with improving technology, and can never be an end in itself.
- 2. makes a product useful** – A product is bought to be used. It has to satisfy not only functional, but also psychological and aesthetic criteria. Good design emphasizes the usefulness of a product whilst disregarding anything that could detract from it.
- 3. is aesthetic** – The aesthetic quality of a product is integral to its usefulness because products are used every day and have an effect on people and their well-being. Only well-executed objects can be beautiful.
- 4. makes a product understandable** – It clarifies the product's structure. Better still, it can make the product clearly express its function by making use of the user's intuition. At best, it is self-explanatory.
- 5. is unobtrusive** – Products fulfilling a purpose are like tools. They are neither decorative objects nor works of art. Their design should therefore be both neutral and restrained, to leave room for the user's self-expression.
- 6. is honest** – It does not make a product appear more innovative, powerful or valuable than it really is. It does not attempt to manipulate the consumer with promises that cannot be kept.
- 7. is long-lasting** – It avoids being fashionable and therefore never appears antiquated. Unlike fashionable design, it lasts many years – even in today's throwaway society.
- 8. is thorough down to the last detail** – Nothing must be arbitrary or left to chance. Care and accuracy in the design process show respect towards the consumer.
- 9. is environmentally friendly** – Design makes an important contribution to the preservation of the environment. It conserves resources and minimizes physical and visual pollution throughout the lifecycle of the product.
- 10. is as little design as possible** – Less, but better – because it concentrates on the essential aspects, and the products are not burdened with non-essentials. Back to purity, back to simplicity.

Lovell, S. (2011). *As little design as possible: the work of Dieter Rams*. Phaidon.



<http://blog.smow.com/wp-content/uploads/2010/05/dieter-rams-braun-sixtant-sm2.jpg>

<http://www.kofferradios.de/rr/br/br030f01.jpg>

http://www.ianclaridge.co.uk/blog/wp-content/uploads/0909/braun_sk6_1.jpg



Braun SK6

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

Braun Radio



iPod (1st gen)



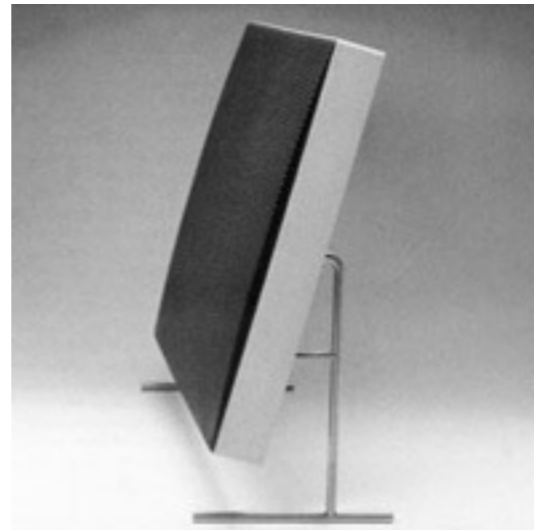
iPhone Calculator



Braun Calculator



Braun Speaker



iMac



Braun Radio



Powermac G5



Part Two

Graphical User Interface Design

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

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 UX/interaction design itself.



User Interface (UI) Design focuses on anticipating what users might **need to do** and ensuring that the interface has elements that are **easy to access, understand, and use to facilitate those actions.** UI brings together concepts from interaction design, visual design, and information architecture.

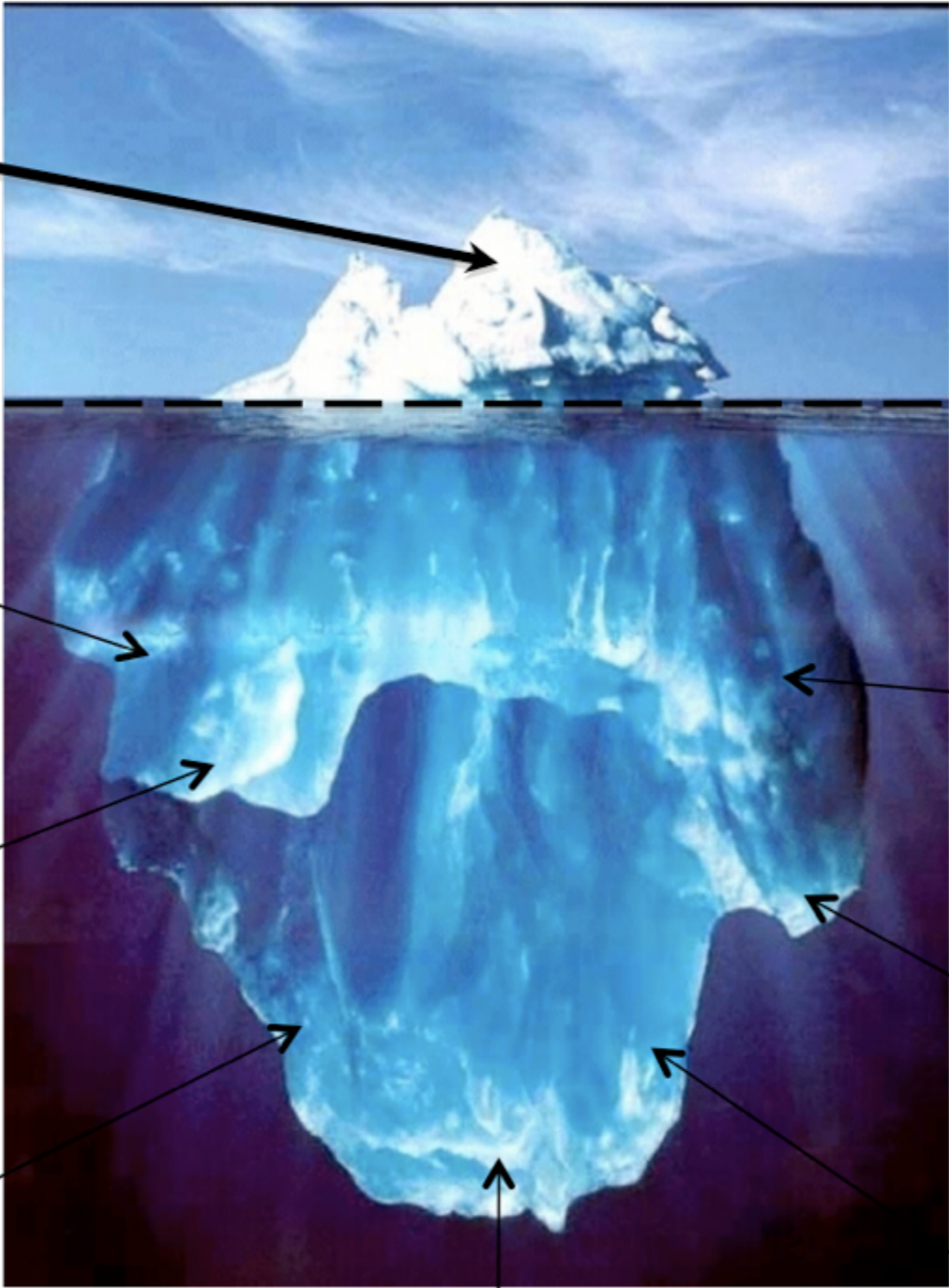


source : [13,14]

Users have become familiar with interface elements acting in a certain way, so try to be **consistent and predictable** in your choices and their layout. Doing so will help with task completion, efficiency, and satisfaction.



source : [13,14]



User Interface

Visible

Behind the Scenes

Capturing

Transferring

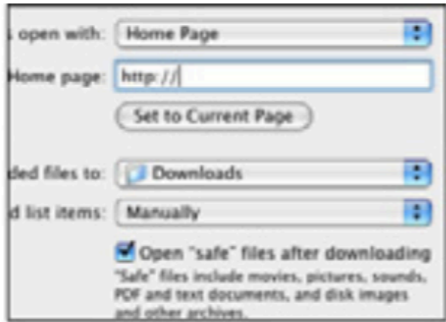
Connecting

Coordinating

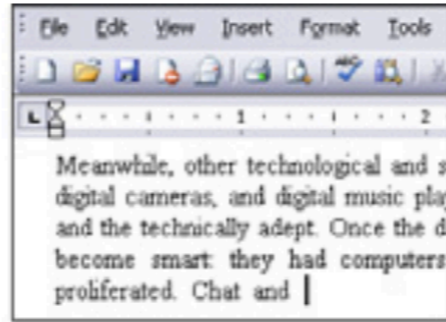
Combining

Contextualizing

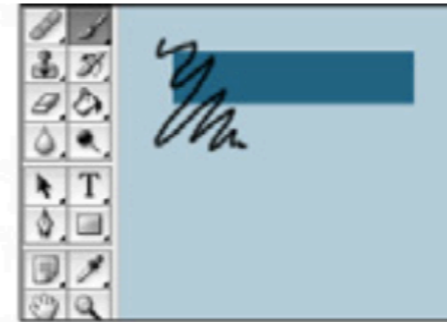
Storing



Forms



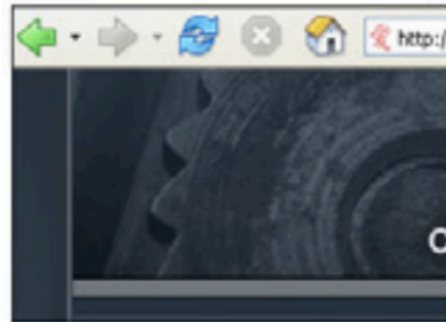
Text editors



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



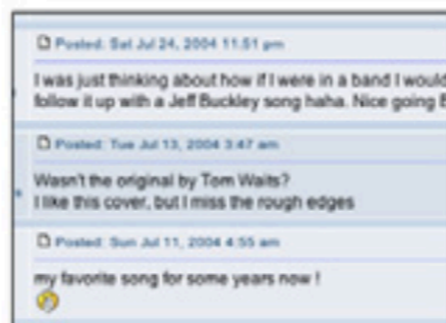
Information graphics



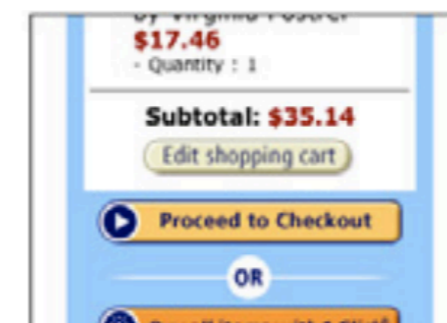
Immersive games



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
- Turnkey systems like kiosks
- Operating systems

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





<http://csszengarden.com/>



Tools

source : [4]



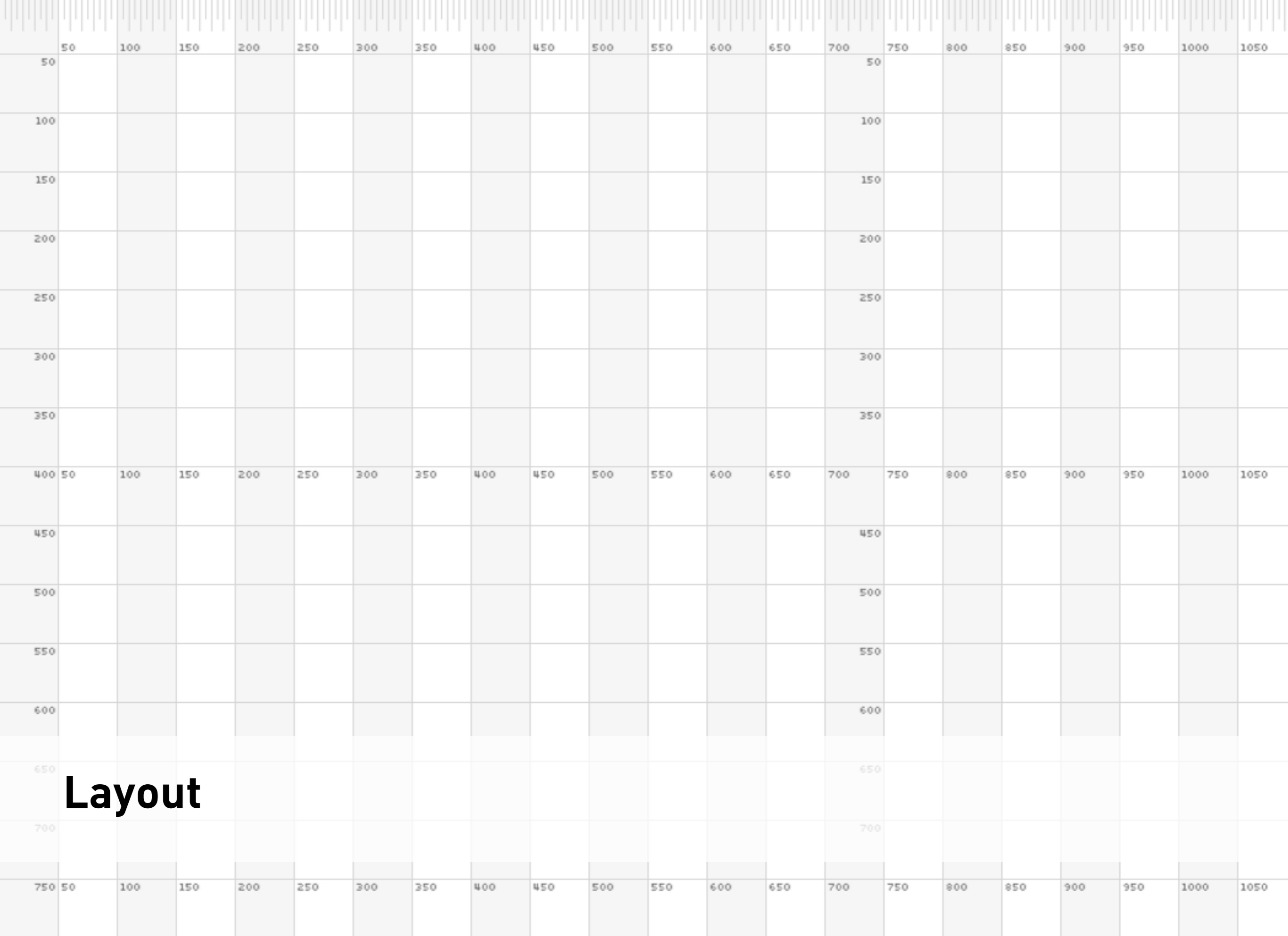
UI Toolboxes



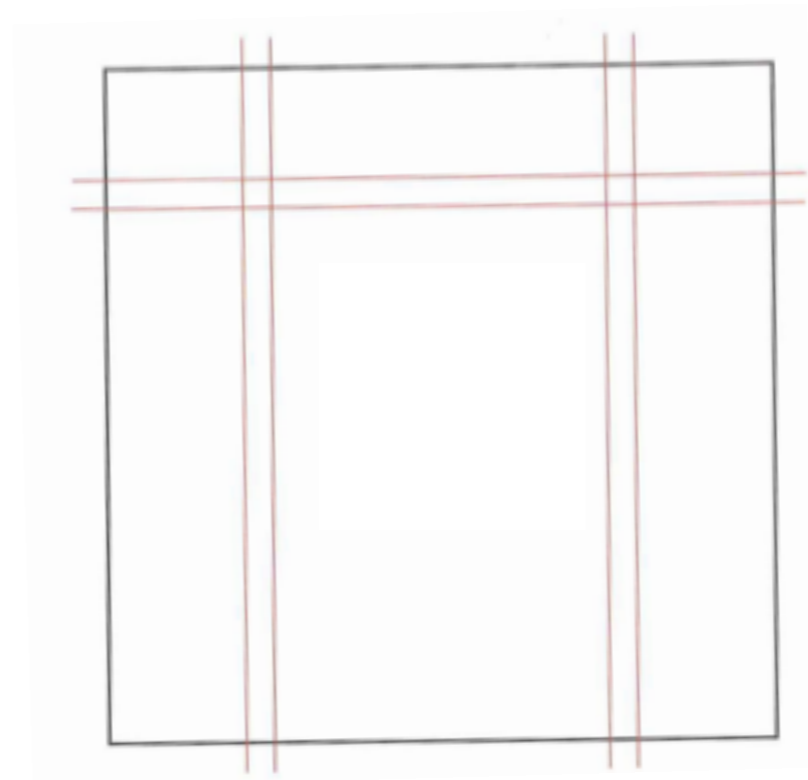
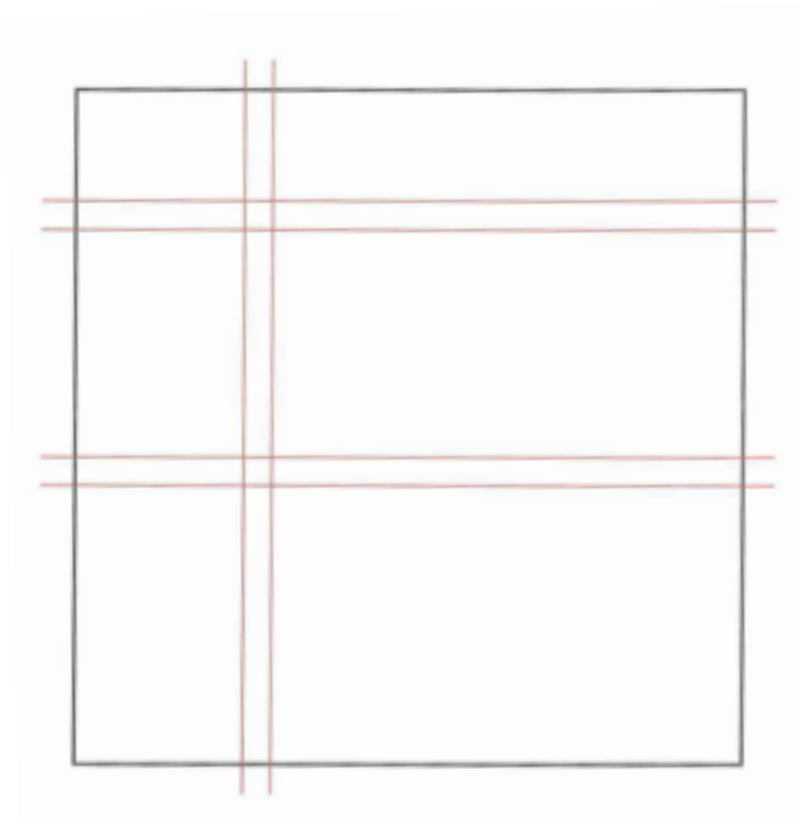
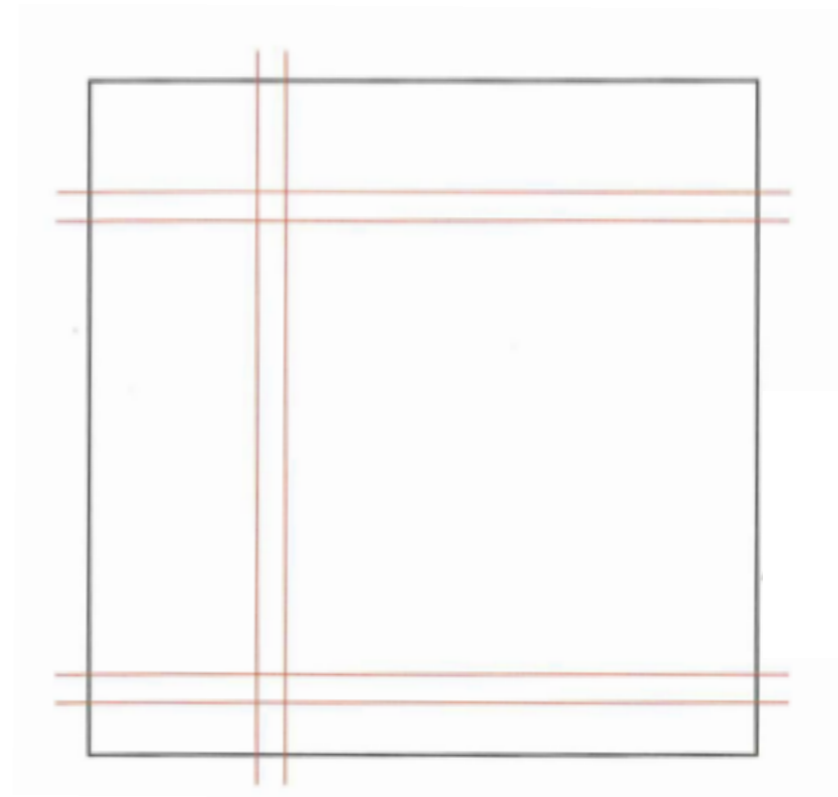
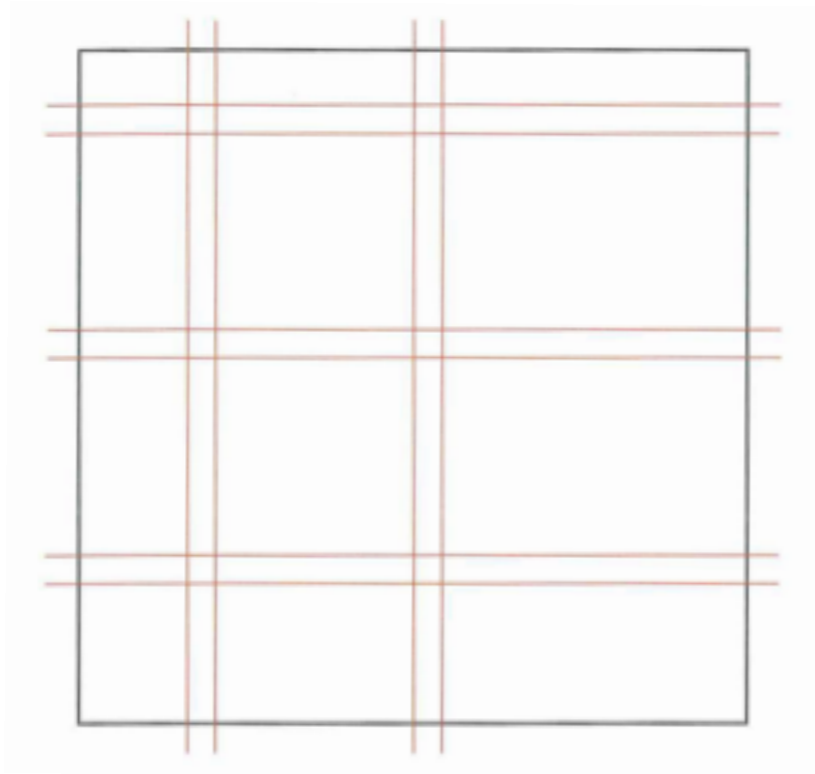
source : [4]

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

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

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

INTERNET BUZZ METER
HOCKEY | BASEBALL
TYPE IN TWO THINGS TO COMPARE

WORLD ENERGY USED NOW (TONS COIL EQ)
128,87 | 95,785 | 100,43
20,214 | 23,088

The New York Times SMALL BUSINESS UPDATE
Shifting Careers: The Care and Feeding of Entrepreneurs. An interview with Guy Kawasaki, a best-selling author of seven books on entrepreneurship and a popular [Read more...](#)

CURRENT WORLD POPULATION
6707221920

NIAGRA FALLS CAM
LIVE 11:14 PM

COFFEE CUPS BEING PRODUCED
105K -
103K -
102K -
100K -
99K -
97K -
96K -

911 CALLS BEING MADE
260

CNN BUSINESS
Genworth stock hits all-time low. [Read full story for latest details.](#) [Read more...](#)

ON SALE NOW
Penguin The Scotty Directors Coat
[Go buy it →](#)

HABITABLE PLANETS
1

EGGS BEING PRODUCED
640 (TONS)

YOU, NOW
CLICK TO ADD YOURSELF
WEBFORM REQUIRED

BICYCLES BEING PRODUCED WORLDWIDE
3940

CARS BEING PRODUCED WORLDWIDE
1537

STICKY NOTES BEING PRODUCED
55K -
46K -
37K -
28K -
18K -
9K -
0 -

TOP WORDS BEING USED ONLINE
is

PLAY NOW
—

FORESTS CUT NOW (IN SQ. MILES)
141

SHOPPING DAYS 'TIL CHRISTMAS
44

MONEY BEING SPENT ONLINE (USD)
180068.35

PEOPLE STUCK IN ELEVATORS
6
5
4
3
2
1

BABIES BEING BORN
840

WORLD MOOD
ADD YOURS!

HOUSES BUILT NOW
3.1

U.S. MOON

LISTEN NOW
LET'S STAY FRIENDS
LES SAVY FAV
1. POTS & PANS
2. THE EQUESTRIAN
3. THE YEAR BEFORE...
4. PATTY LEE
5. WHAT WOULD INVOLVES DO
6. BRACE YOURSELF
[BUY ALBUM @ FRENKISS](#) [VIEW BAND @ MYSPACE](#)

NEW CASES OF MALARIA
12891

VIDEOS NOW PLAYING
YouTube

CURRENT TEMP
120
100
80
60
40
20
0
-20
-40
MEXICO CITY

LIBERTY CAM
LIVE 11:14 PM

CURRENT NATIONAL DEBT YOUR SHARE
0.00000005

TRANSPLANTS TODAY
6
HEARTS

EMAILS BEING SENT
1156

SPAM EMAILS BEING RECEIVED
481

DRY OF WONDERFUL THINGS
Director, Gerald Yorke was a... Crowley (The Beast 666, etc.)

SECONDS UNTIL DOUGHNUT DAY
17711126

FOX SPORTS
Cubs, Braves in running to get Pade's Peavy. In the first big showdown of the offseason, it's the Braves vs. the Cubs for Padres right-hander Jake Peavy. [Read more...](#)

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)

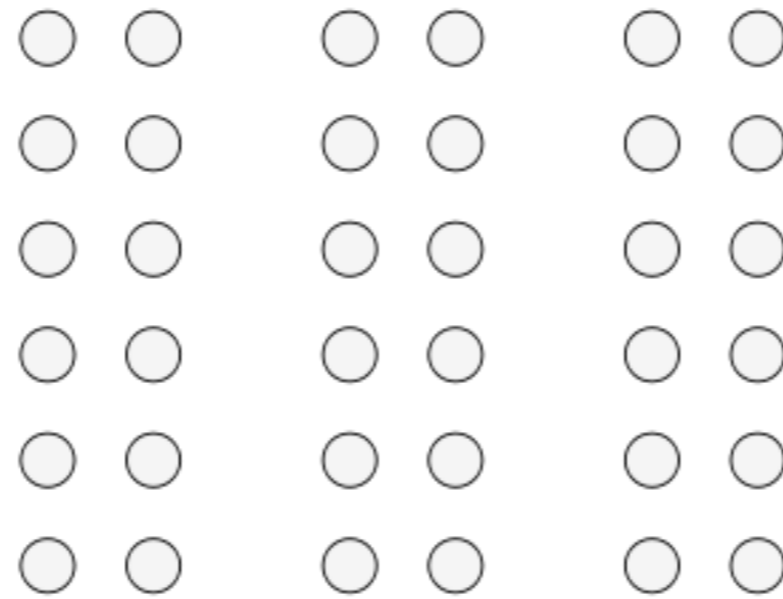
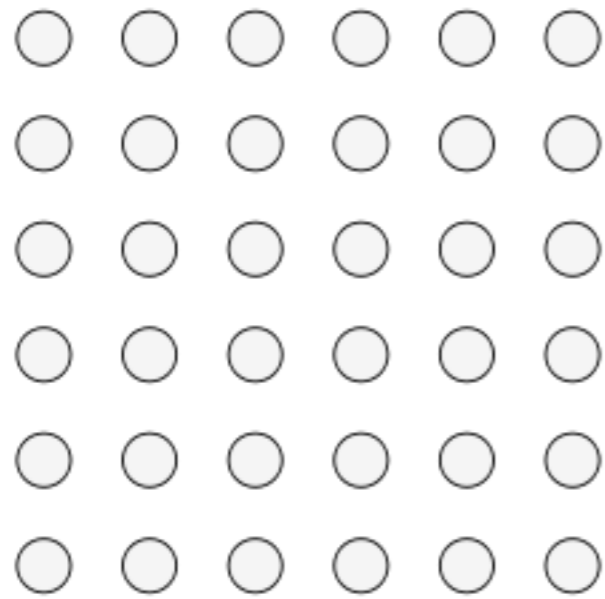
Gestalt Laws

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

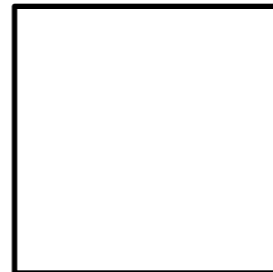
...

In summary the Gestalt Theory believes individuals use insight and their prior experiences to determine the **response to stimuli...**

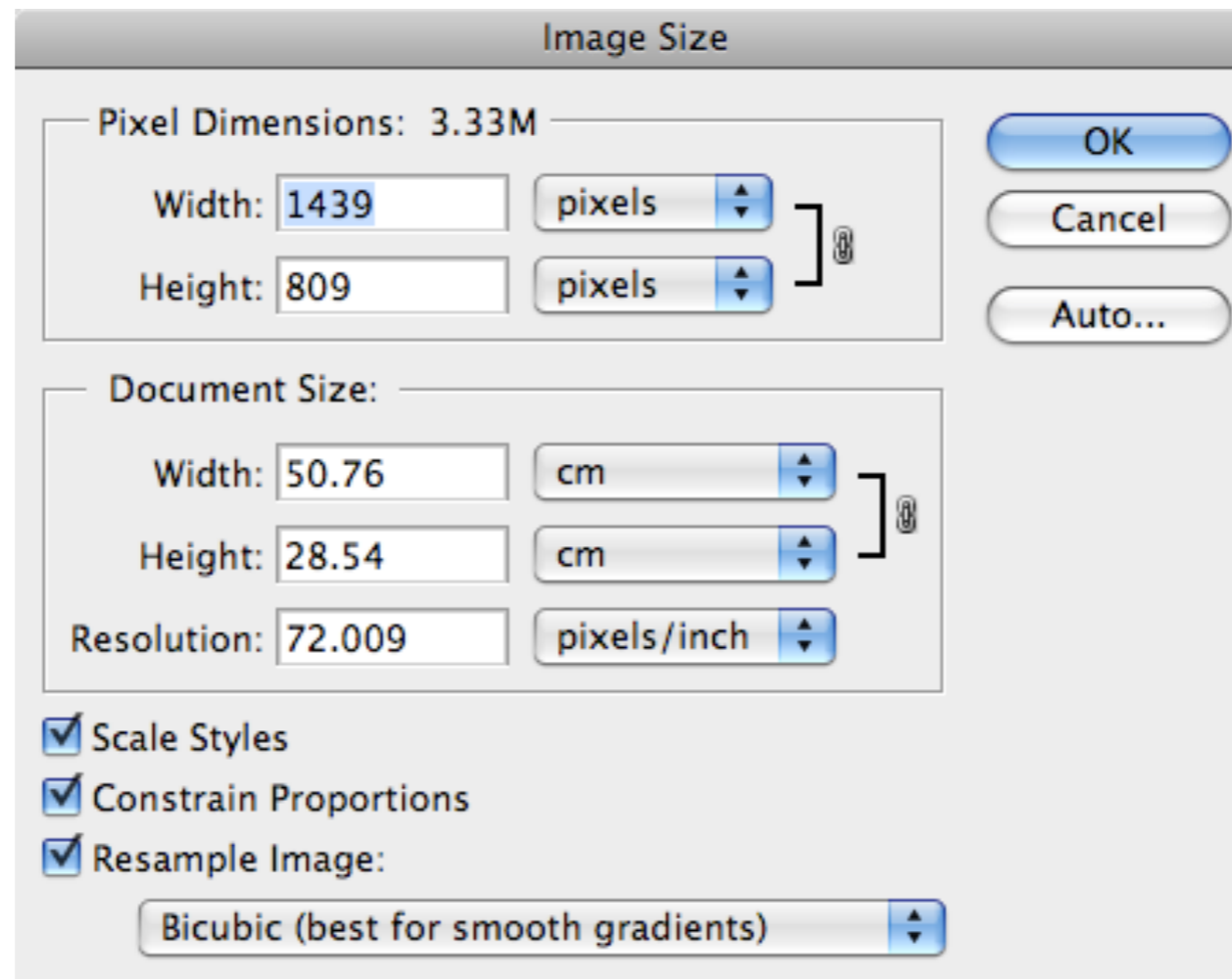
....(uses) Gestalt Theory to try to **make sense** of, and provide order to, information in their perception.



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.

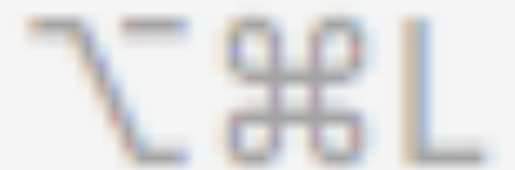
Flip Horizontally

Flip Vertically

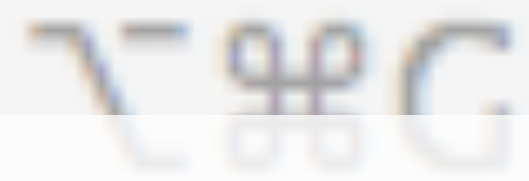
Lock



Unlock



Group



Ungroup



Visual Constraint

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.

source : [1]



URL:

- Hosts
- Span All
 - Allow List ->
 - Reject List ->

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

- Special
- Retries:
- Additional Parameters:
- Act like a browser
 - Convert links
 - Ignore robots.txt
- Configure Proxy

- 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

- Start wGetStart.bat
- Add to wGetStart.bat
- Empty wGetStart.bat
- Pro Mode

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**.





Akkolade (Nasenklammer, geschwefte Klammer, geschwungene Klammer, Binde, systematische Klammer)
→ Metazerte, Seite 345

In Manuskripten sind mehrezellige Akkoladen schwer zu setzen und später noch schwerer in das Layoutprogramm zu konvertieren. Man behilft sich, indem man ans Ende jeder Zeile, die »akkoladiert« (Susanne Fischer) werden soll, eine einzelne Akkolade setzt:
so }
wie }
hier }

Akkoladen können nach links, rechts, oben oder unten weisen, je nach Art und Ausrichtung der zusammenzufassenden Elemente. Sie weisen von den Listenelementen zu den Erklärungselementen, nicht umgekehrt.

Oft ist es schöner und kaum mühsamer, große Akkoladen aus alten Schriftmusterbüchern zu scannen und als Bild einzubauen; die zusammengebastelten Nasenklammern sind meist nicht sehr schwungvoll.

rechts oben: »englischer Schnitt«
rechts unten: »französischer Schnitt«

unten: Akkoladen aus einem Stück werden bei Skalierung, je nach Umfeld, fett und plump (Thesis Sans extraleicht in den Punktgrößen 10/12/14/18/24/36/48/60/72/96).



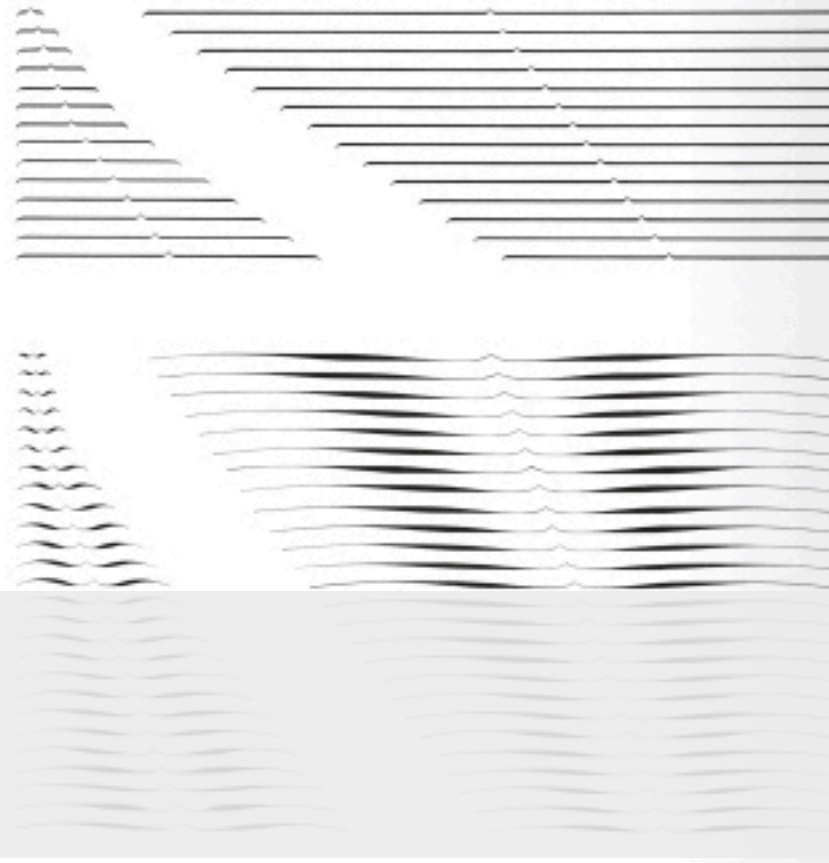
Fonts

Akkoladen in der Größe normaler Klammern werden gesetzt wie normale Klammern.

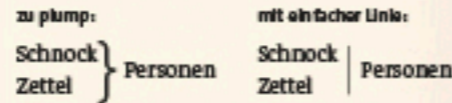
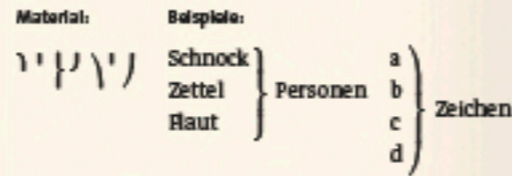
Akkoladen, die über mehrere Zeilen gehen, dienen als Zusammengehörigkeits-Zeichen über mehrere Zeilen hinweg, etwa in Personenverzeichnissen. Man muß sie recht mühsam aus einzelnen Teilen zusammensetzen, die in Sonderfonten zu finden sind.

Wenn man eine Akkolade in der Größe einer normalen Klammer über mehrere Zeilen vergrößert, wird sie fett, groß und plump, sogar bei Verwendung eines extraleichten Schnittes. Statt einer Akkolade tut es übrigens auch eine Linie.

Hier ein hübsches Beispiel für Akkoladen-Verschachtelung im Tabellensatz. Die Auspunktierungen sind höchst verzichtbar, da Tabellen nicht mehr auf Kolumnenbreite ausgeglichen werden müssen.



Die {Akkoladen} als Parenthesen im Text dienen der Differenzierung in wissenschaftlicher Typografie.



Supervision of	1-hour jobs	District 1	1 1/2 hours' travel	Sales conducted monthly from May to July.
timber sales	2-hour jobs	District 7		
		District 6	1 hour's travel	
	2-hour jobs	District 2		
		District 3	2 hours' travel	

Alltägliche Sonderzeichen

- Gradzeichen ° und Hoch »0« °
- Minute ' und Sekunde '' / ASCII-Strichlein ' und ''
- Paragraphzeichen §
- Währungszeichen \$ € £ ¥ €
- Nummer-Zeichen #
- »Etwa«-Zeichen &
- »At«-Zeichen @, Mail- und Internet-Adressen
- Gleich = und Plus + und Minus -
- kleiner als < und größer als >
- höchstens ≤ und mindestens ≥
- Alinea-Zeichen ¶
- Kreuz † und Doppelkreuz ‡ und Stern *
- Copyright-Zeichen ©
- Eingetragene Marke ®
- Mal-Zeichen ×
- Unterstrich _
- Durchschnittlich ∅
- Unendlich ∞
- Akzente und ungefähr-Zeichen ≈
- Vorsicht bei Sonderzeichen auf dem Macintosh

Grad-Zeichen: °	Bei Winkelgraden wird das Grad-Zeichen unmittelbar an die Zahl gesetzt, vielleicht etwas spationiert.	Ein Winkel von 360°.
	Temperaturangaben ohne Einheit: Das Grad-Zeichen steht direkt an der Zahl. Mit Einheit: Es steht direkt vor dem Einheitskürzel, von der Zahl durch ein geschütztes Flexibles Leerzeichen getrennt.	Bei 15° gehe ich nicht ins Wasser. Es müssen 25 °C sein. Ein 15°-Bad. Ein 25-°C-Bad.
	Es ist kein hochgestellter Buchstabe »0«, sondern ein spezielles Zeichen.	15°: richtig 15°: falsch
Hochgestellter Buchstabe 0 und weitere hochgestellte Buchstaben und Zeichen → Textbelegung, Seite 358	Das hochgestellte kleine »0« findet in Abkürzungen wie »N°« oder »r°« Verwendung. Hier darf das Grad-Zeichen nicht stehen, das kein kleines »0« ist, sondern ein Kreis.	N° 6: falsch N° 6: richtig Gesprochen: »Numero 6« Band 1: 8°°, Blatt 12 1° und 2 1°°. Gesprochen: »Band eins: Octavo, Blatt 12 recto und 2 verso.«
Minute: ' und Sekunde: '' Fuß: ' und Zoll: '' Auch Orgelregister bezeichnet man mit diesen Strichen (Fuß-Länge der Orgelpfeifen). Die ASCII-Strichlein ' und '' sind hier und für Anführungen falsch. → Anführungen sehen, Seite 199	Die kleinen etwas schrägen Strichlein verwendet man nur für Zeit- und geographische Angaben sowie für Fuß und Zoll. Sie stehen direkt an der Zahl, vielleicht etwas spationiert, danach ein Wortzwischenraum. (Zeitangaben besser mit »:)«) → Zeitangaben, Seite 199	1. Satz Allegro 9' 40" »neun Minuten vierzig Sekunden« 11' 14' 30" östlich Greenwich, 47' 12' 7" nördlicher Breite »elf Grad vierzehn Minuten dreißig Sekunden« 11° 14' 30" 11° 14' 30" 11' 14' 30" alles falsch 11° 14' 30" einzig richtig
Paragraph-Zeichen: § »das §-Zeichen hat auch so was wie halbFrau halb Sehpferdchen« Arno Schmidt	Das Paragraph-Zeichen steht immer vor einer Zahl. Es kann nicht das Wort »Paragraph« in einem Text ersetzen. Es ist von der Zahl durch ein gFL getrennt – wie auch ein eventuell folgender Buchstabe.	Ich zitiere hier § 59, vor allem § 59 b. Plural: Die §§ 59 bis 61 sind zu tilgen. falsch: 14 §§ nach dem ersten § tilgen! richtig: 14 Paragraphen nach dem ersten Paragraphen tilgen!
Währungszeichen: \$, €, £, ¥, € etc. → Textbelegung von Zahlen, Seite 199	Währungs-Zeichen oder Währungs-Abkürzungen wie »\$Fr« stehen mit gFL hinter oder vor dem Betrag. Reihenfolge in Texten: »Summe-Währung« (noch besser: ausschreibbar). In Listen: »Währung-Summe«. Währungsabkürzungen wie »dkr«, »\$Fr« oder »kan\$« setzt man ohne Abkürzungspunkt. Ausgeschriebene Währungen setzt man nach der Summe und einem Wort zwischenraum.	Text: Geben Sie mir 50.000 \$ in kleinen Scheinen! – In meinem Geldbeutel waren 76 \$Fr, 63 €, 63.000 ¥ und 480 kan\$. Liste: \$ 3.455,00 \$ 30.985,60 Geben Sie mir 50.000 Dollar in kleinen Scheinen!

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.

Courier
CourierBold
CourierBoldOblique
Helvetica
HelveticaBold
HelveticaBoldOblique
HelveticaOblique
TimesBold
TimesBoldItalic
TimesItalic
TimesRoman

- Avoid italicised, 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

- 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.

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

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Georgia

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Goudy Old Style

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.

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

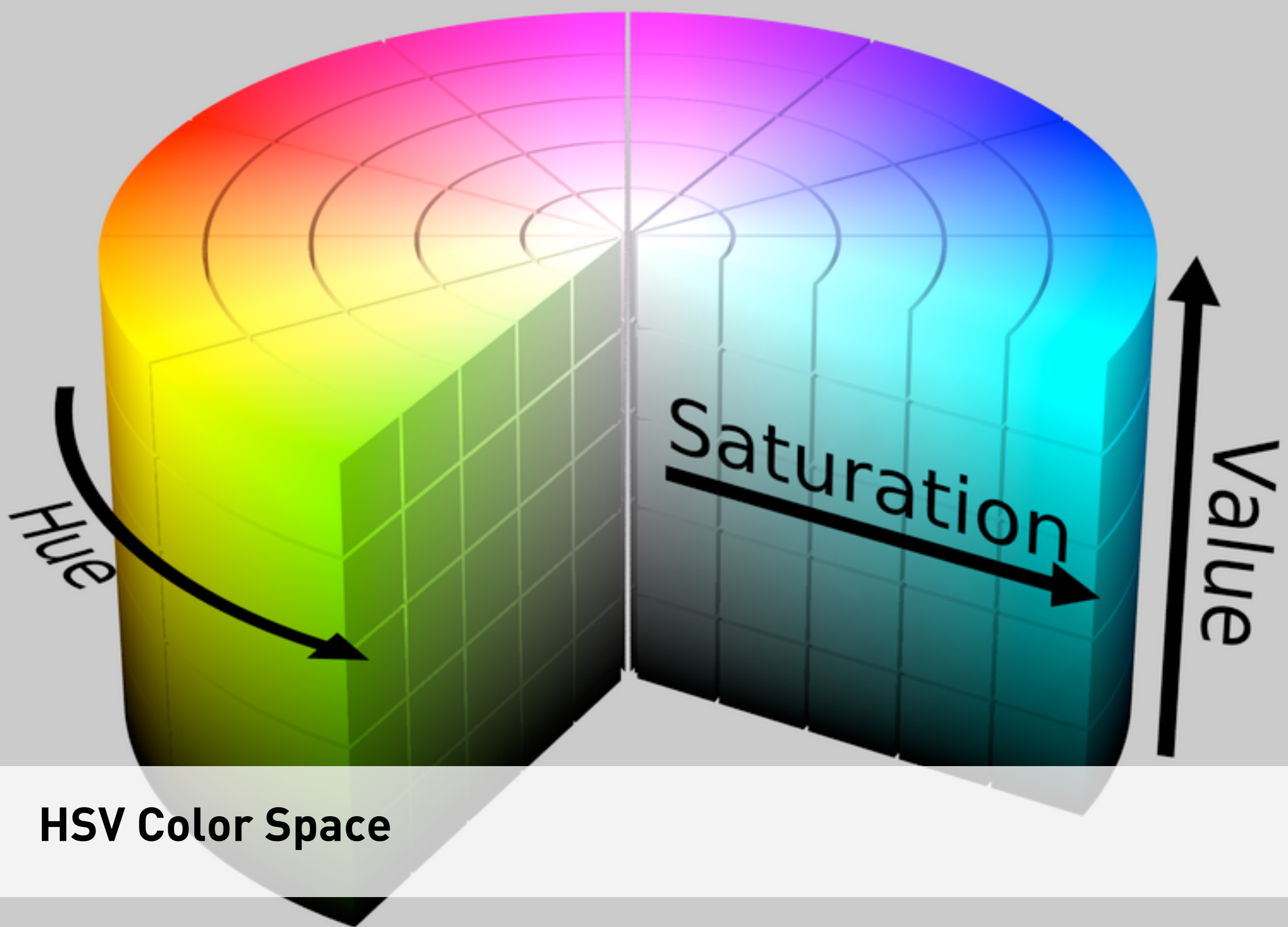
Music around the block

REGULAR

Summer heat rising up from the sidewalk

source : [5]

Color



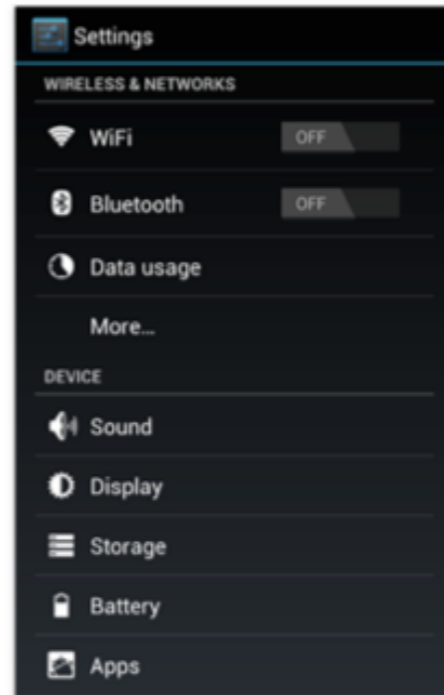
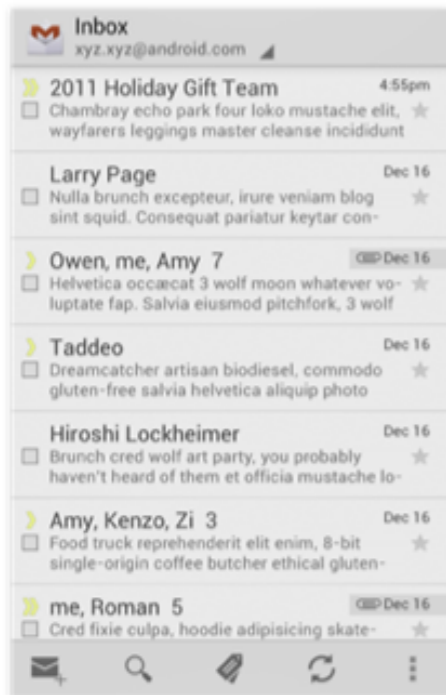
HSV Color Space

- 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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& Hosanna Afghan Hounds

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| Mahadi | Polo ~ BIS National Specialty 2003
travel-hound | Other DOG Breeds: Cyrano Hounds (whippets/greyhounds)
| Play Kennel (KEES/PYRS) KEESHOND PUPPIES HERE NOW!
SKY Shelties | ART/CobraOriginals Afghan, dog breeds, horses
HORSES: Step Of Faith Farm | SPIRITUAL: 911 | AALF

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Enter
Hosanna
Hounds

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

We have BEAUTIFUL
PUPPIES available
SOON, whelped JUNE
17, 2010, with AKC
Champion sire &
dam!

We also have some
BEAUTIFUL Champion
sired young male and
female Afghan Hounds
AVAILABLE NOW. If you
have room in your heart
to love one of these
'most beautiful dogs in
the world, please check
out THIS PAGE

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MOST BEAUTIFUL
ART CAR IN THE
WORLD, AWARD
WINNING PARADE
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CA Smoking Ban Costs them 100 Billion\$
Smoker's Health & Rights hosanna1.com Weblog

JOHN & LYNDA FARLEY EDMONTON, KENTUCKY
CLICK HERE TO EMAIL US

Hoopla Sculpture
EMAIL ARTIST AT: kvalimaki@aol.com

Questionable Website



Google

Google Search

I'm Feeling Lucky

Googles Search Page



Inter



Show All

Language For

Region: Custom

Dates

Saturday, 5 January 2008

5 January 2008

5 Jan 2008

Contrast

source : [2]

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]

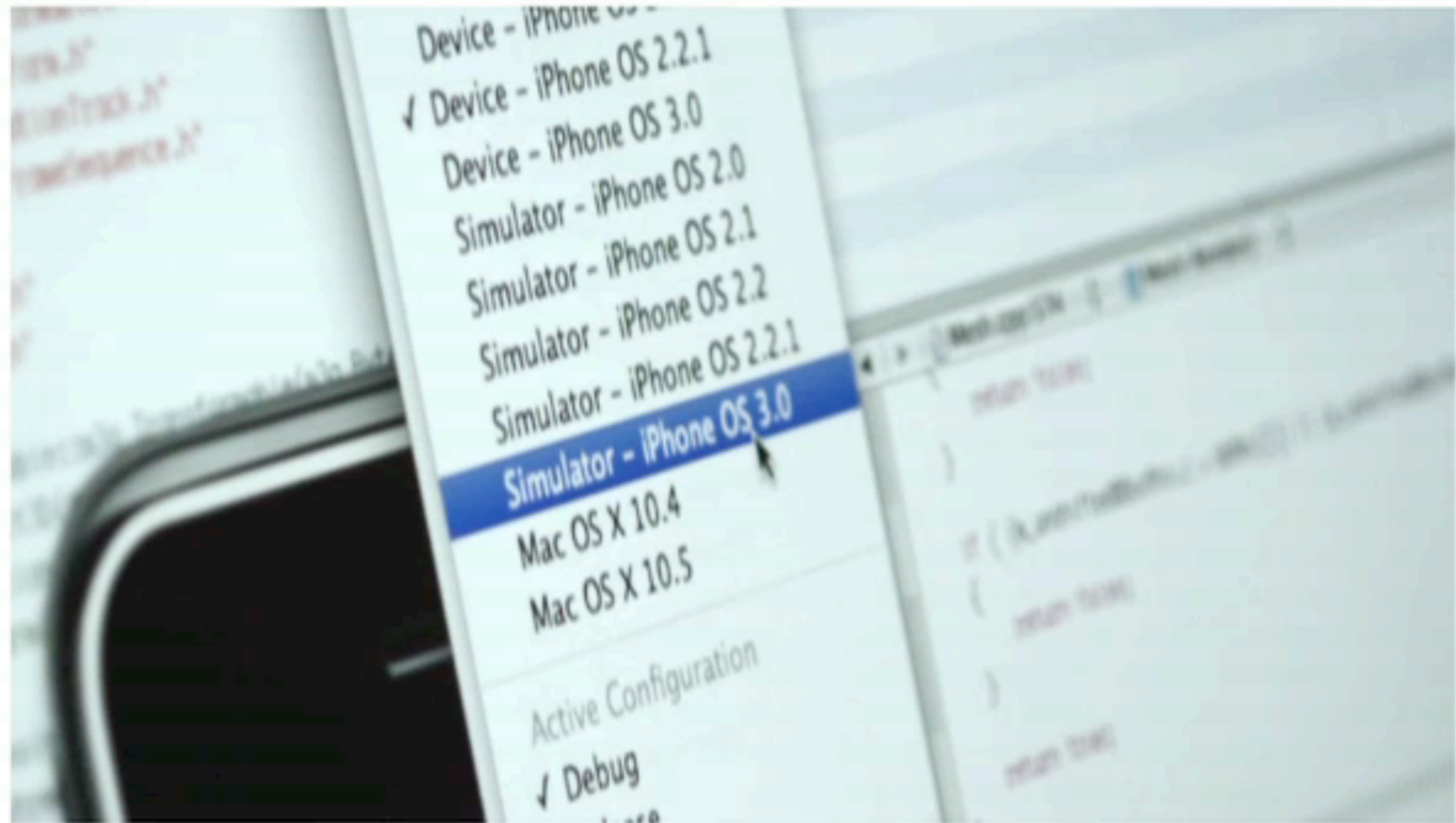


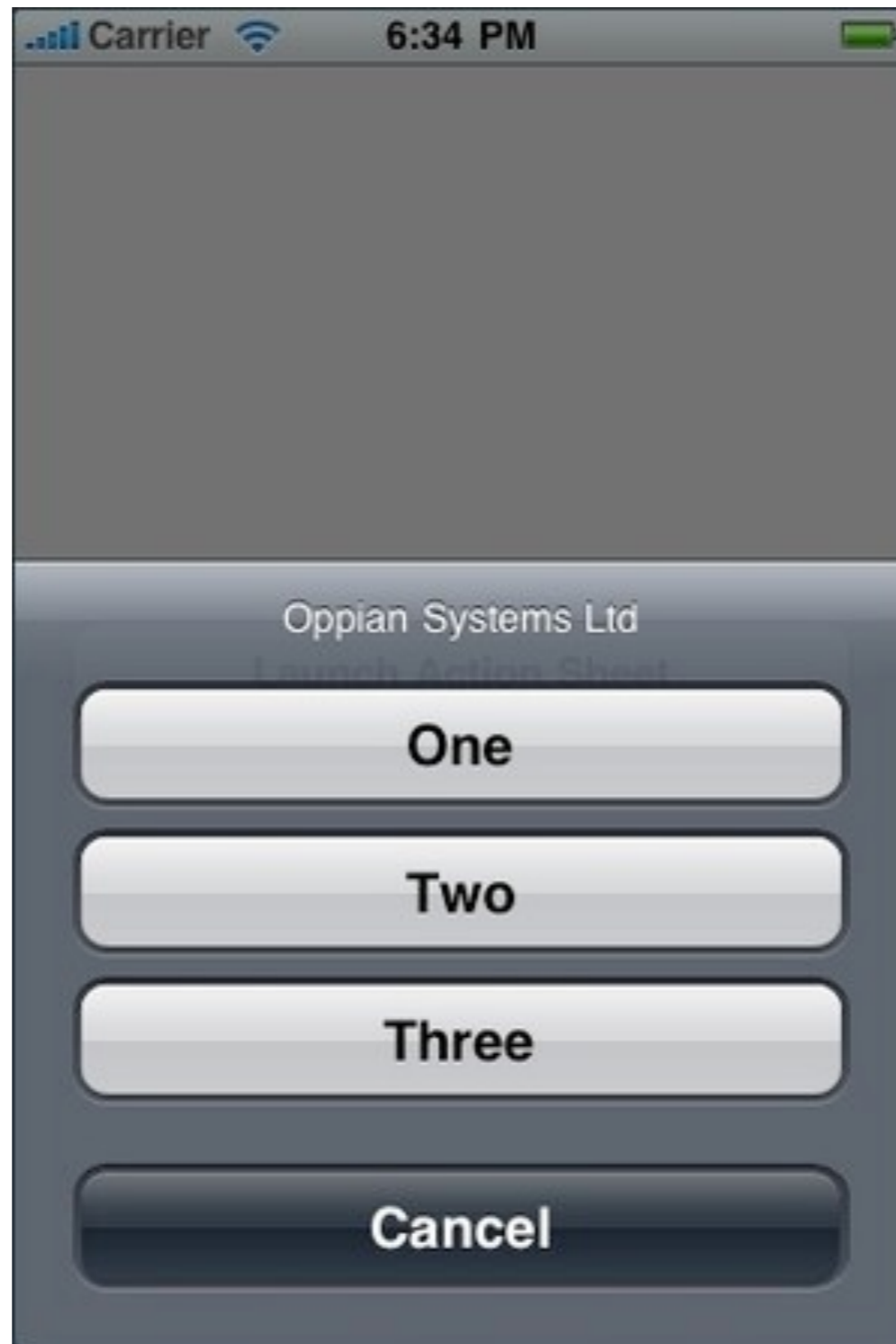
Symmetry ensures **balance and clear organisation**, if sometimes at the expense of visual interest. While this may be a drawback for a poster or retail packaging, it is perfectly appropriate for a user interface.

UI Kits

iPhone

Developing Apps for iPhone





Explore Over a Million Color Palettes

Search

You'll find over 1,666,068 user-created color palettes to inspire your ideas. Get the [latest palettes RSS feed](#) or use our [color palette maker](#) to create and share your favorite color combinations.

NEW MOST LOVED MOST VIEWS MOST COMMENTS MOST FAVORITES

Browse Palettes

DAY WEEK MONTH ALL

Giant Goldfish by manekineko



508 COMMENTS 3005 FAVORITES 232796 VIEWS 3510 LOVES

Thought Provoking by Miss_Anthropy



285 COMMENTS 1938 FAVORITES 139170 VIEWS 2738 LOVES

Terra? by GlueStudio



442 COMMENTS 1567 FAVORITES 89562 VIEWS 1463 LOVES

ColorSchemer Studio 2

COLOURlovers



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

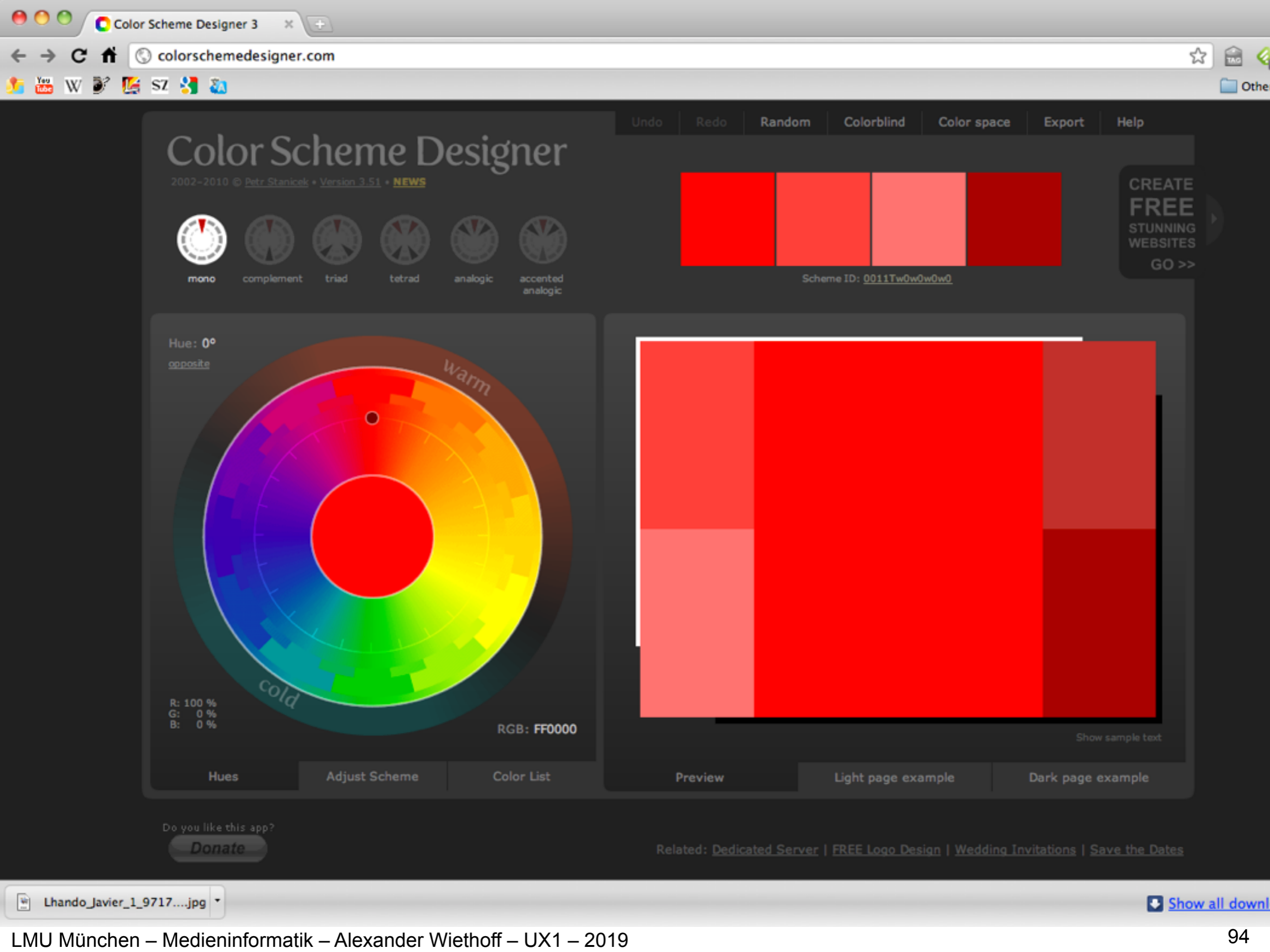
0

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

Undo

Redo

Random

Colorblind

Color space

Export

Help

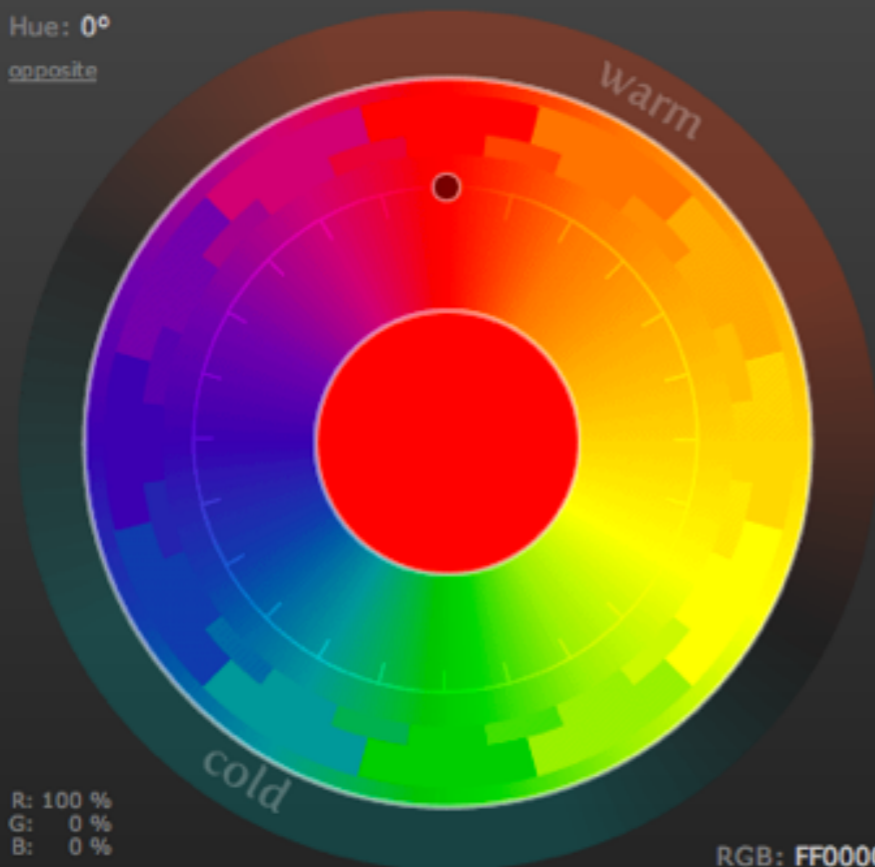


Scheme ID: [0011Tw0w0w0w0](#)

CREATE
FREE
STUNNING
WEBSITES
GO >>

Hue: 0°

[opposite](#)



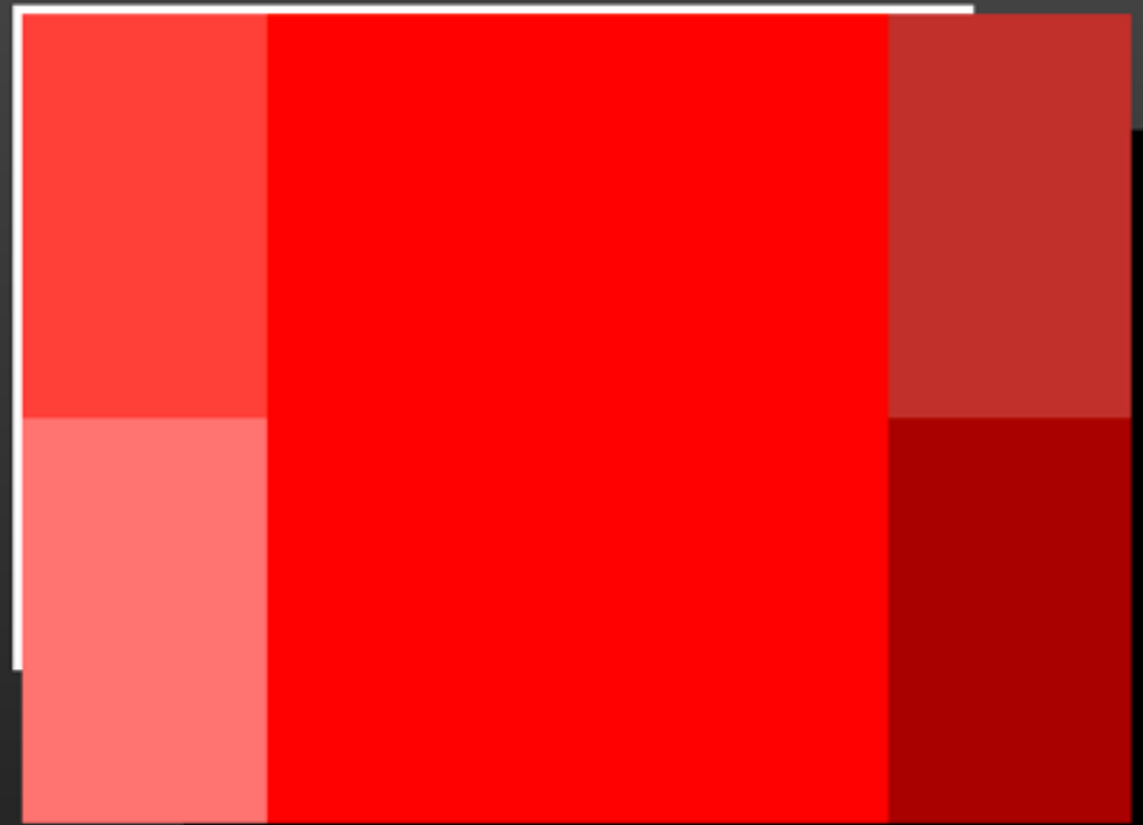
R: 100 %
G: 0 %
B: 0 %

RGB: FF0000

Hues

Adjust Scheme

Color List



Show sample text

Preview

Light page example

Dark page example

Do you like this app?

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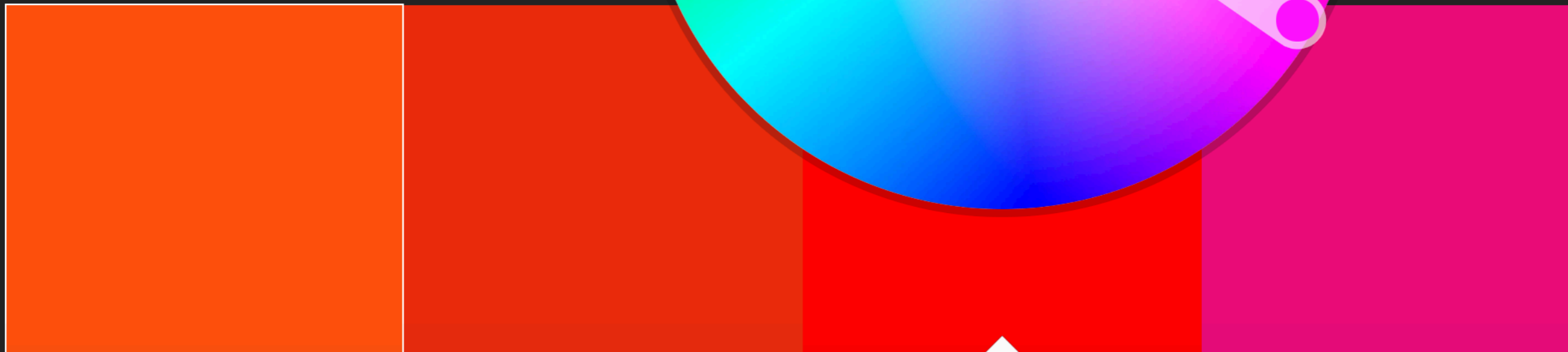
Lhando_Javier_1_9717....jpg

Show all download

IMPORT IMAGE COLOR WHEEL

Change Color Harmony

Analogous



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>



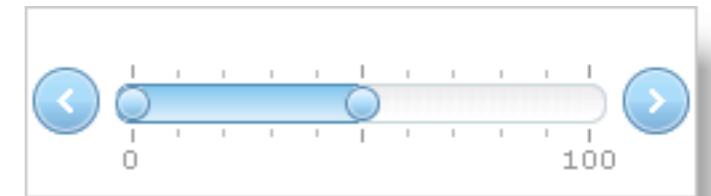
Button

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



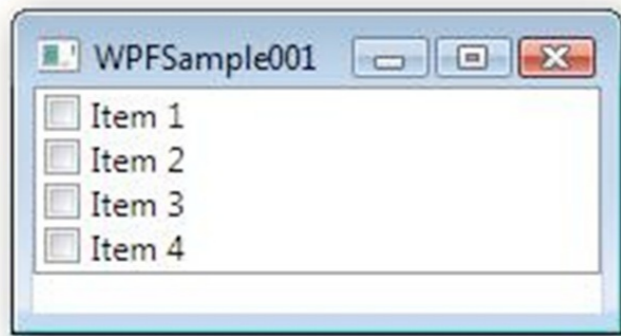
Dial

<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>

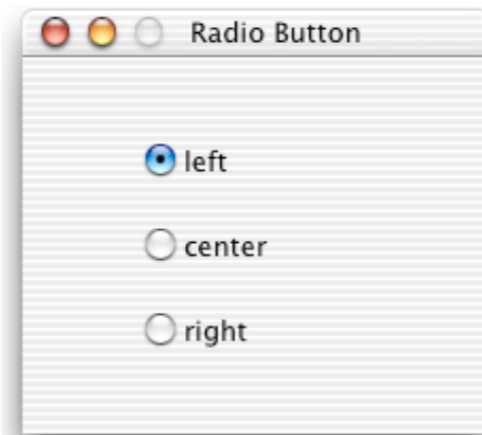


Slider

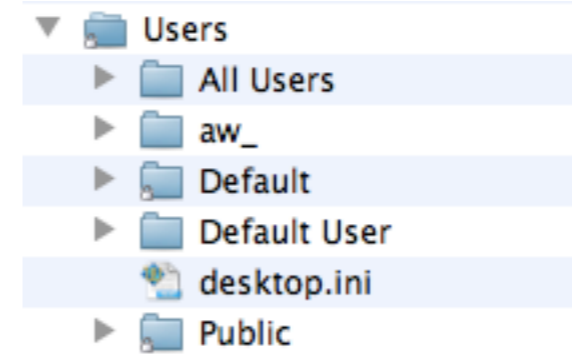
http://help.infragistics.com/Help/NetAdvantage/ASPNET/2011.2/CLR4.0/html/images/Web_New_WebSlider_Control.png



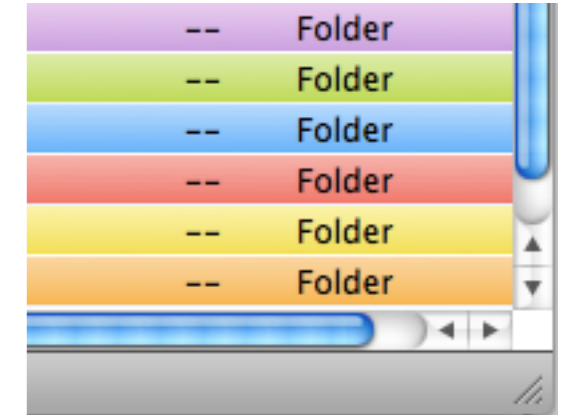
Checkbox



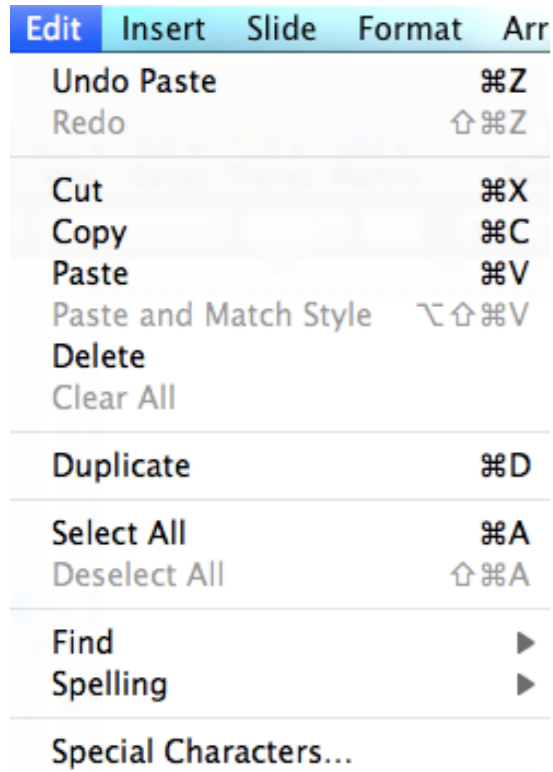
Radio Button



Twist



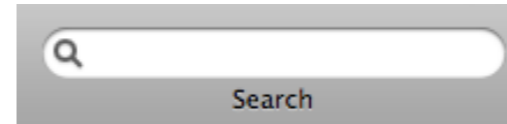
Scroll Bar



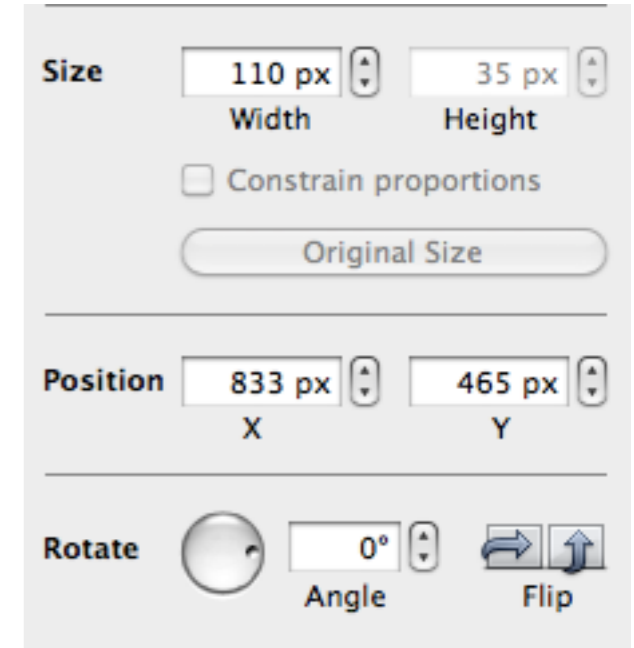
Drop-down menu

Collection	Typeface
All Fonts	Arial 14.0 pt.
English	Arial 18.0 pt.
Favorites	Times New Roman 288.0 pt.
Recently Used	Verdana 24.0 pt.
Fixed Width	Verdana 36.0 pt.
Fun	
Modern	
PDF	
Poppi	
Traditional	
Web	
Windows Office Con	

Multiple Selection List



Text Box



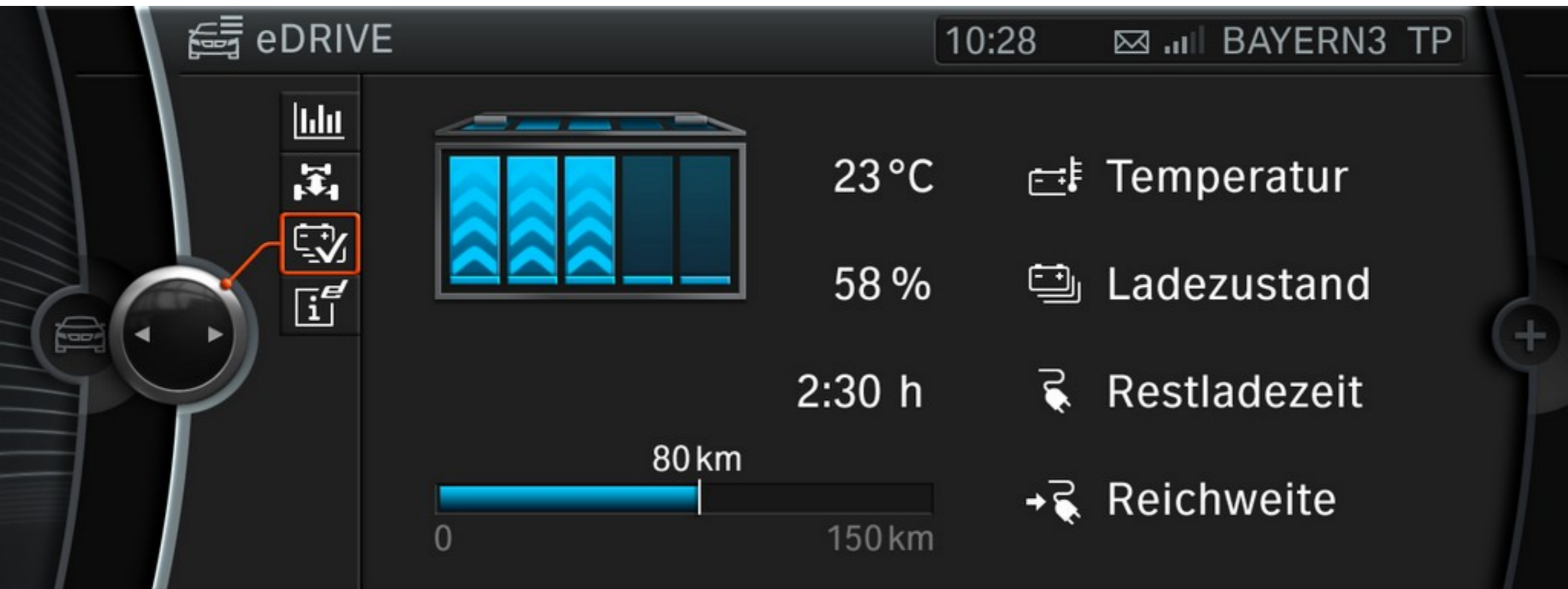
Spin Box



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.

GRAPHIC
DESIGN



2D

PRODUCT
DESIGN



3D

+Z-axis
(spatial depth)

INTERACTION
DESIGN



4D

+T-axis
(temporal dimension)

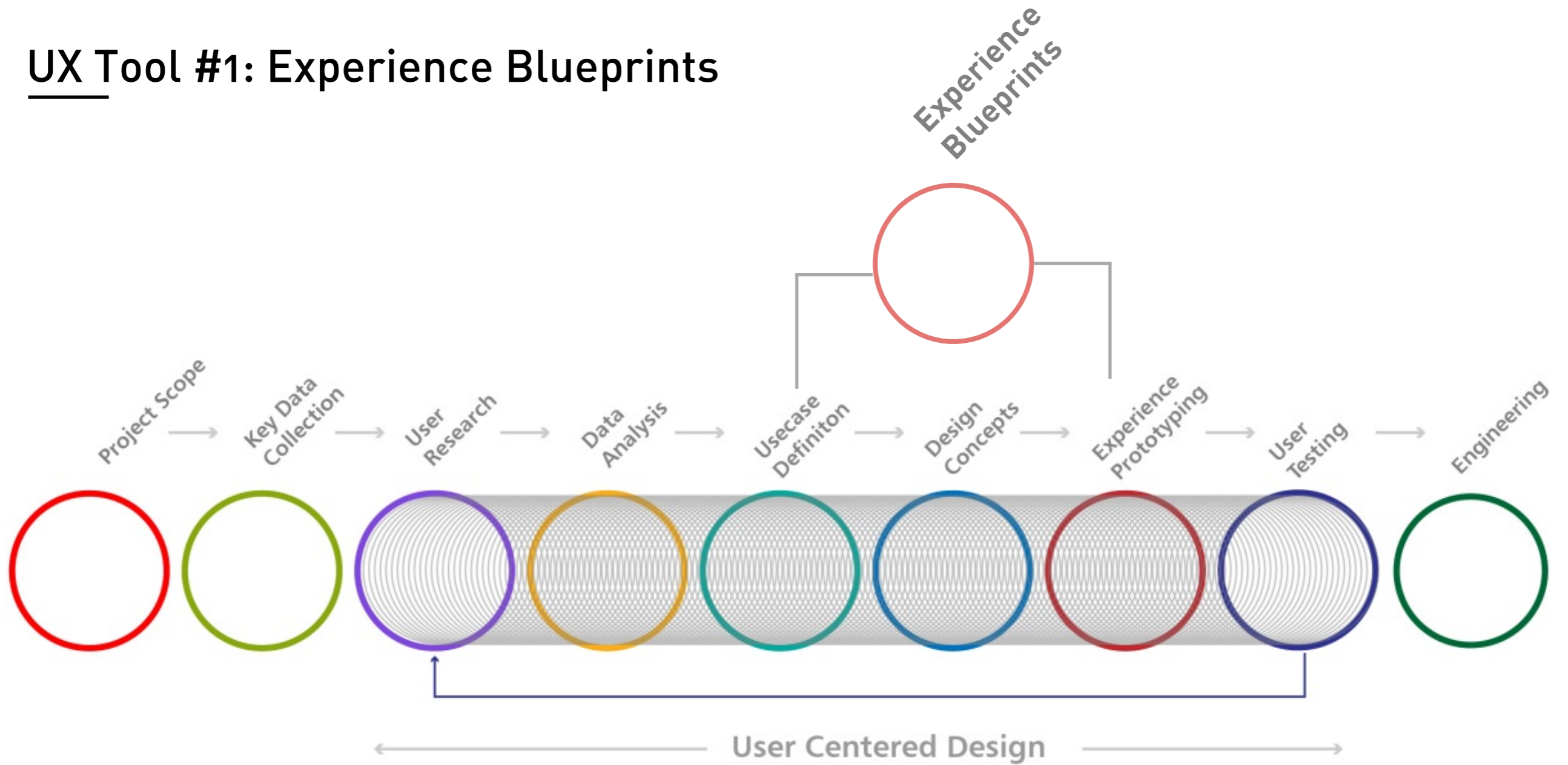
SERVICE
DESIGN



5D

+W-axis
(multi-local simultaneity)

UX Tool #1: Experience Blueprints



What is an Experience Blueprint?

An experience blueprint is a diagrammatic representation of the user journey that maps processes, touch points, people and support activities involved in creating the experience.

It helps in **visualising the correlation between the front stage (user end) and the back stage (provider end)**. It also helps to interconnect the tangible elements with intangible and deal with them more objectively.

History and Use

Blueprinting services was pioneered by G. Lynn Shostack, former VP of Citibank, in the 1980's as a way to plan the cost and revenue associated with operating a service.

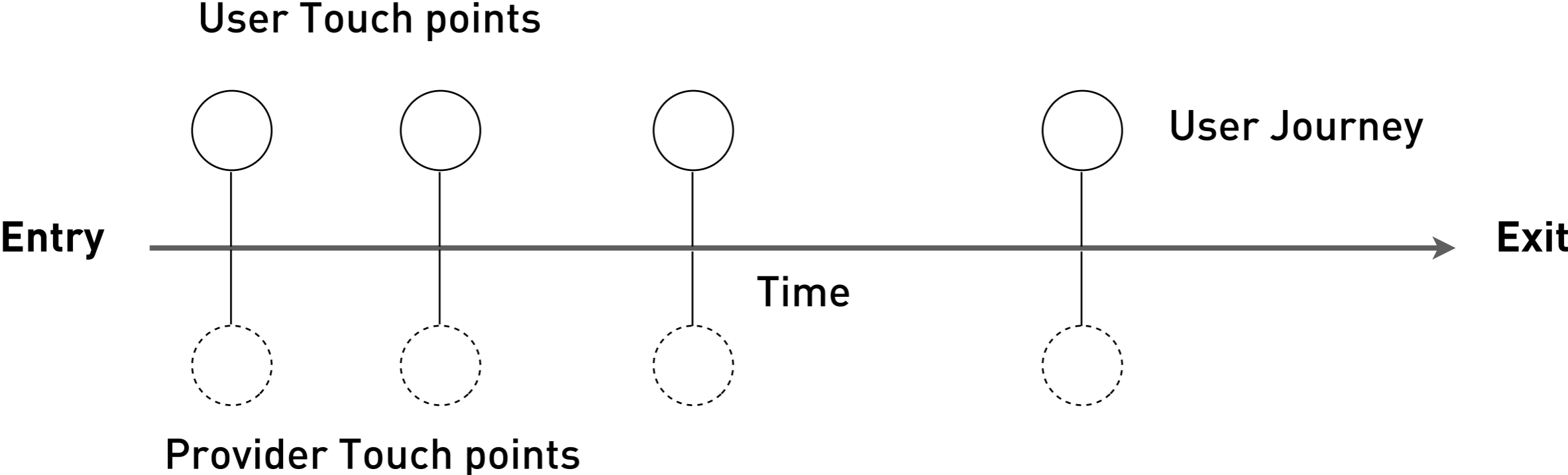
Ever since it has been **interpreted in many different ways** and used by many leading design and management consultancies.

Definition

In the British Standard for Service Design (BS 7000 -3, BS 7000 -10, BS EN ISO 9000), blueprinting is described as the mapping out of a service journey identifying the processes that constitute the service, isolating possible fail points and establishing the time frame for the journey.

We interpret this in a much broader sense. We look at it as an experience blueprint which covers both the **service elements as well as the product interactions.**

Front Stage



Support Processes

Back Stage

User Actions



Line of interaction



Touch Points



Line of visibility



Backstage activity



Line of internal
interaction



**Support process / Stake
Holders**



USE CASES

USER ACTIONS

TOUCHPOINTS

BACKSTAGE

STAKEHOLDER

STAKEHOLDER 1

STAKEHOLDER 2

STAKEHOLDER 3

STAKEHOLDER 4

STAKEHOLDER 5

STAKEHOLDER 6

UX Blueprint Template

Example: FoodSense® Connected Kitchen

Professional Foodservice Equipment





YES/NO

USES ACTION

- auf erwartete Nachfrage aufmerksam machen
- Vorsorge treffen

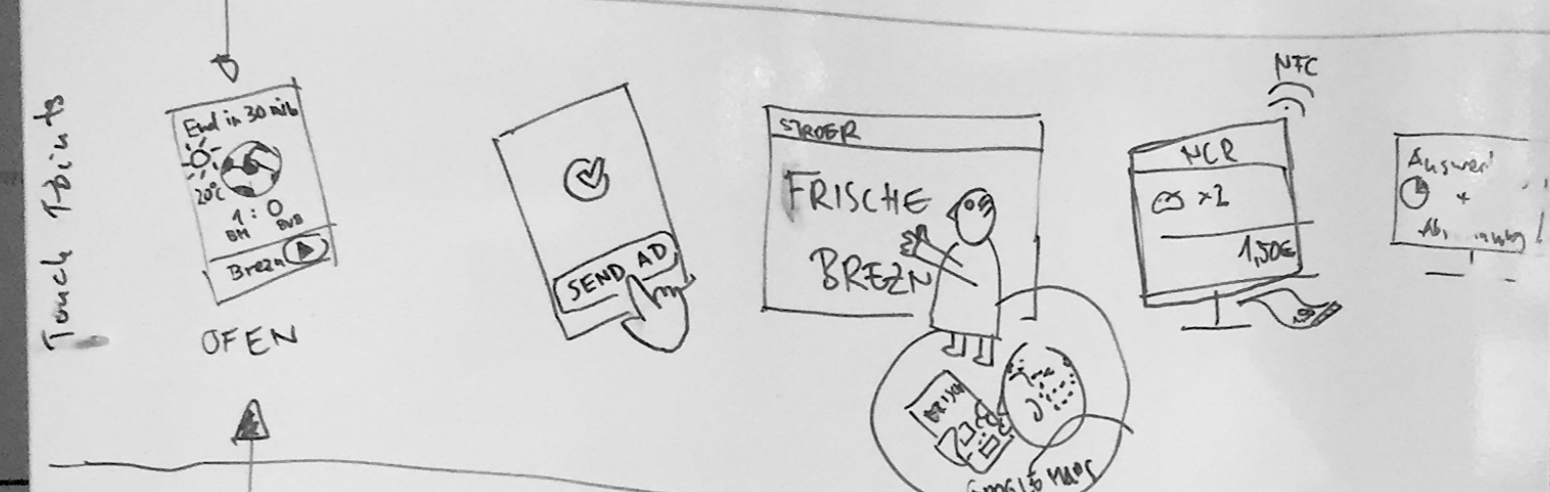
Bedürfnis wecken

Werbung absenden an Werbeflächen in unmittelbarer Umgebung

Produkte verkaufen + registrieren

targetlos bezahlen

Auswertung Kosten/Nutzen der „Kurz-Werbe-Aktion“ mit Partnern



Touch Points

Background

Vorschlag:

- temporäre Werbung platzieren
- Route berechnen

Themenbezogene Textnachrichten/Werbung

Standortermittlung

Calendar Add

Standortermittlung

Daten verarbeiten

Ist-Analyse Kosten/Nutzen

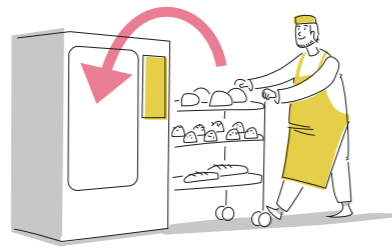
DATEN verarbeiten + grafisch aufarbeiten

Ideation: Sketching out Experience Blueprint(s)



FOODSENSE®

USE CASES



USER ACTIONS

Reagieren auf Information zu Events

Ofen mit zusätzlichen Produkten bestücken

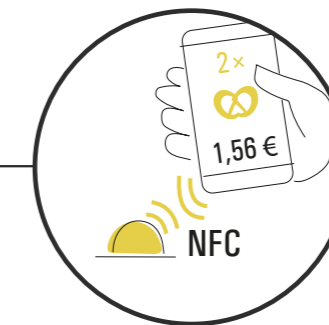
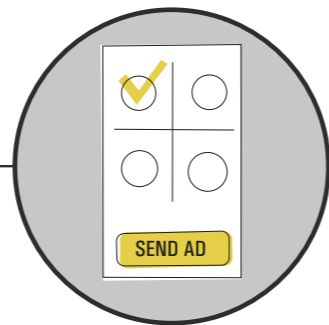
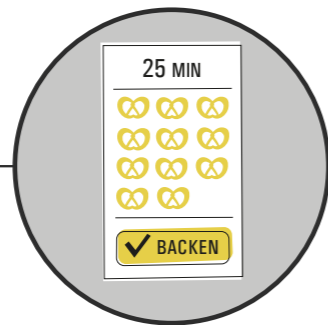
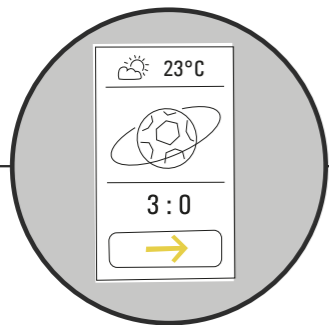
Werbung an digitale Werbeflächen in unmittelbarer Nähe senden (Guerilla-Kurzwerbeaktion/Promo-Aktionen)
Sich über neue Events informieren

Information erfassen (Endkunde)
vom Smartphone in den Shop leiten lassen (Endkunde)

Mit Eintrittskarte Rabatt erhalten (Endkunde)
Produkte verkaufen und über das Kassensystem registrieren
Bargeldlos bezahlen (z.B. per Smartphone / NFC)

Auswertung von Kosten und Nutzen der Kurzwerbe-Aktion mit Partnern
Planung

TOUCHPOINTS



BACKSTAGE

Daten verarbeiten und Informationen bereitstellen
Über erhöhte Nachfrage informieren
Standortermittlung

Ofen vorheizen (automatisch)
Rezepte vorschlagen (passend zu Event / Saison / Tageszeit / Wetter)

Werbetext generieren (passend zum Rezept / Backgut)
Standortvorschläge digitaler City-Light-Poster
Temporäre Werbung platzieren
Neue Events anzeigen

Daten verarbeiten

Abrechnung
Daten verarbeiten
Umsätze / Werbekosten vergleichen

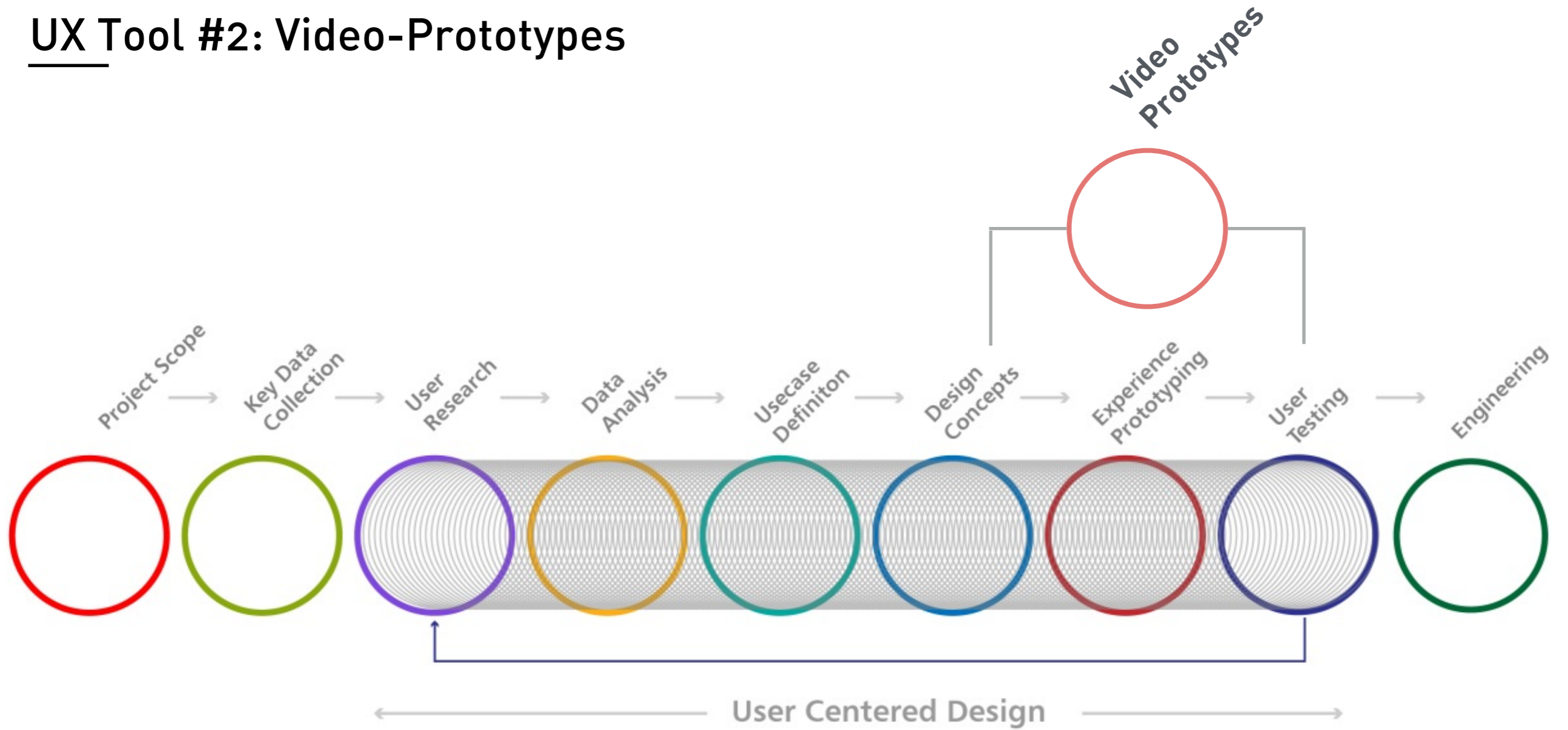
Daten verarbeiten und grafisch aufbereiten (Dashboard)
Werbekosten („ABO Sekunden-Ad“) mit Partner abrechnen auf Grundlage der zusätzlich verkauften Produkte

STAKEHOLDER



Selection: Refined Experience Blueprint

UX Tool #2: Video-Prototypes



Why Video-Prototypes ?

Representing complex relationships, new behaviours and attitudes are an integral part of user experience design.

These can be represented through many means including sketching and making physical prototypes.

However, capturing a journey **over time and at multiple locations** requires a linear medium like video.

Example: 2 Video-Prototypes for IoT Kitchen Services

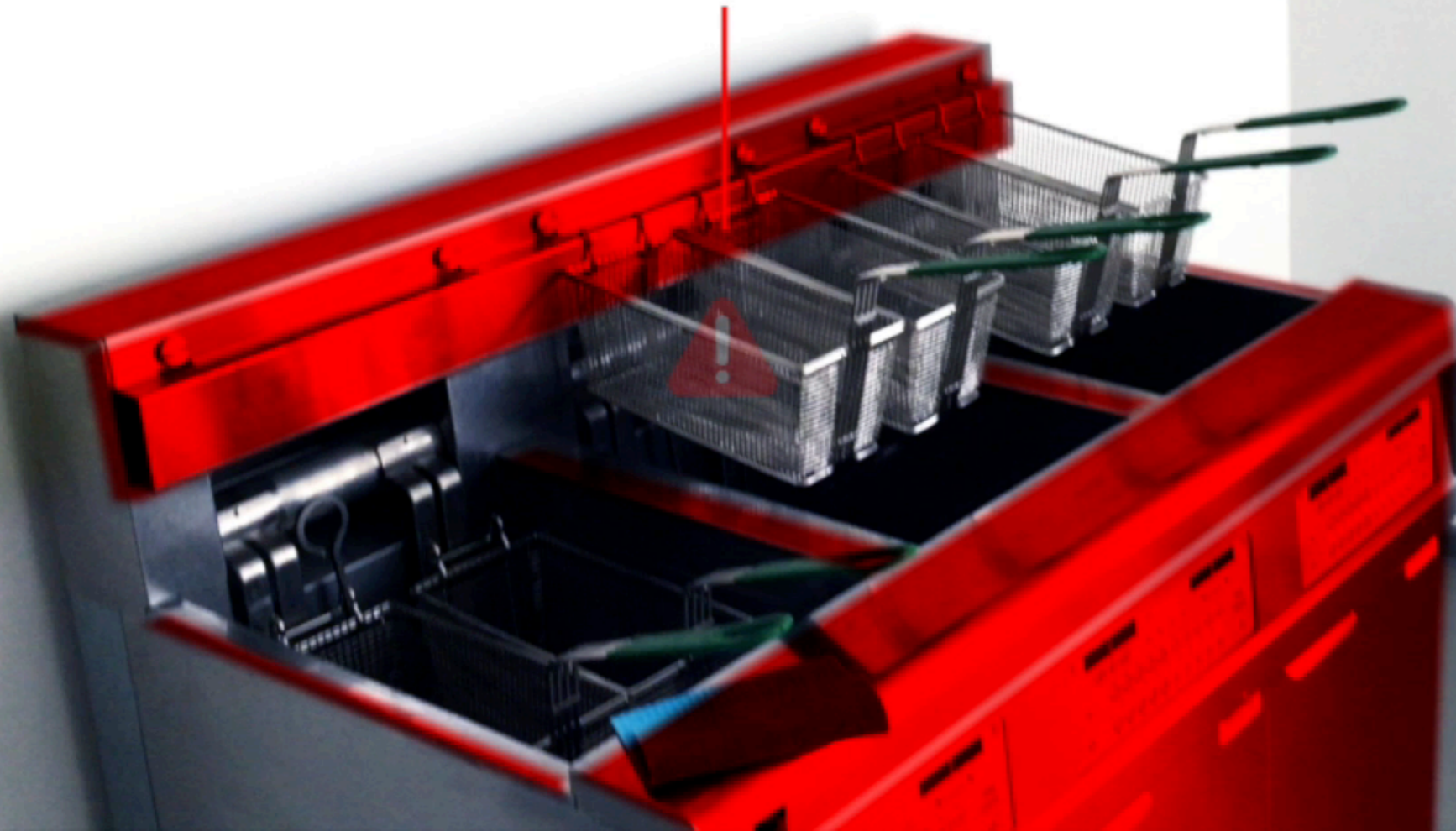
The smartwatch display features a multi-colored interface with a gold top bar, a white middle bar, a green main area, and a pink bottom bar. The top bar contains a home icon, the time 21:30, and a close icon. The middle bar has a heart icon, a soccer ball icon with 3:0 below it, and a close icon. The green area displays a circular progress indicator with a pink segment and the text "22 min". The white area below shows three person icons, an arrow, and "38 min". The pink bottom bar has a square icon.

©/E

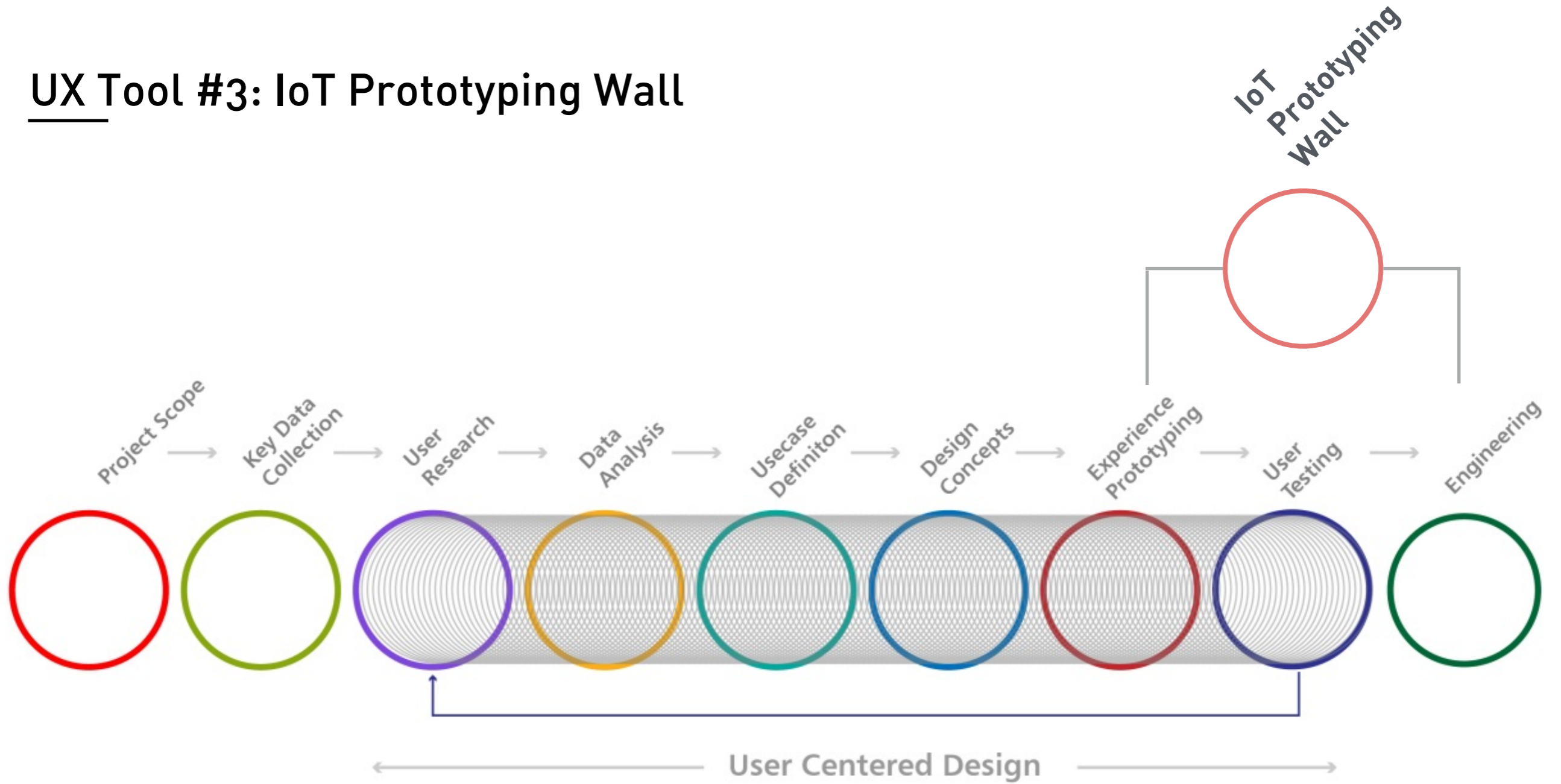


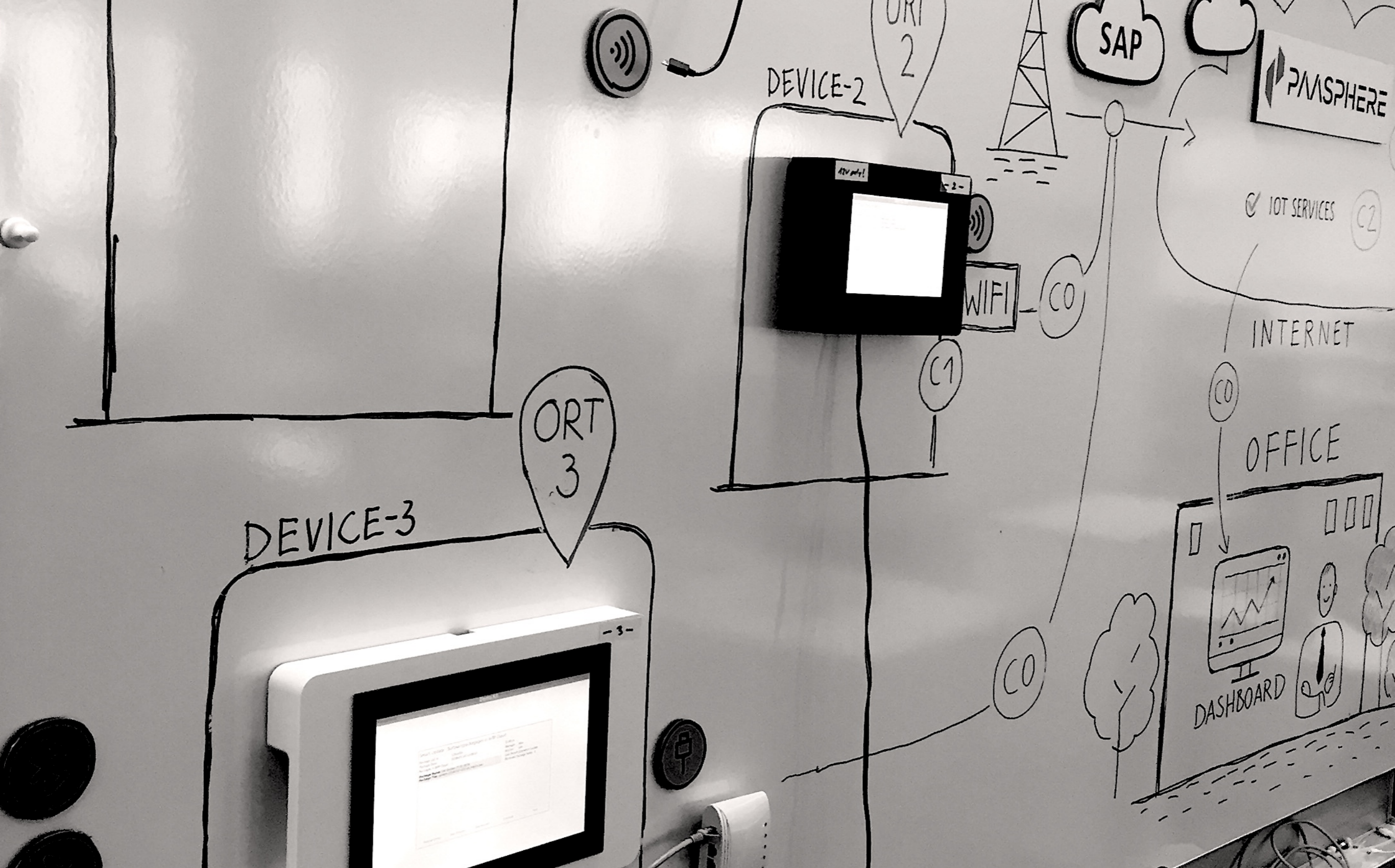
WARNING CLEANING NEEDED!

Proceed to first cleaning step



UX Tool #3: IoT Prototyping Wall





Sketching in Technology: IoT Prototyping Wall

References (Books):

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- [1] Lidwell, W., Holden, K. and Butler, J. Universal Principles of Design, Revised and Updated: 125 Ways to Enhance Usability, Influence Perception, Increase Appeal, Make Better Design Decision, Second ed. *Rockport, 2010.*
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- [5] Ouilhet, H. The soul of the new machine: A story about Android design, *UX LMU Talks 2011-12.*
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- [8] Fiedler, J. & Feierabend, P. Bauhaus, *Könemann in der Tandem Verlags-GmbH 2005.*
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- [13] *Jesse James Garrett's The Elements of User Experience: User-Centered Design for the Web and Beyond (2nd Edition).*
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