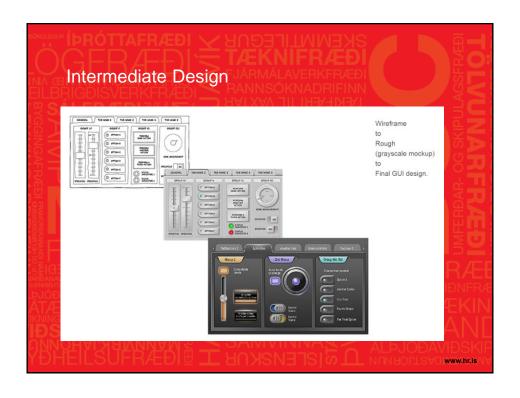


# Overview of this lecture

- Intermediate design
- UI widgets

- Reading material:
  - Chapter 7.2





## Intermediate design - definition

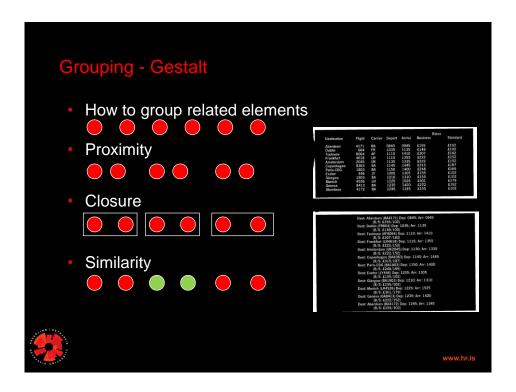
Sjónræn (visual) og fagurfræðilegur (aesthetic) útlit á viðmótinu sýnt á tölvuskjá eða öðrum búnaði. Litir, lögun, stærðir og stíll (style) eru notuð til að styðja og bæta virkni og notkun á viðmótinu.

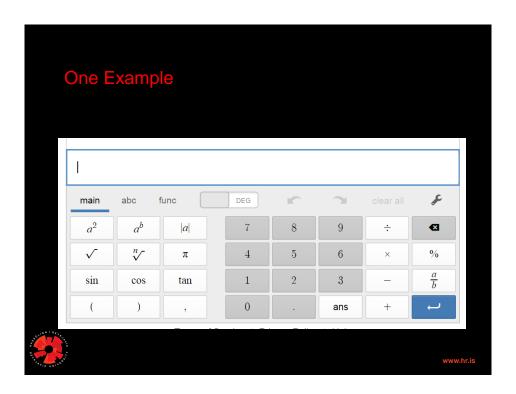
Hér er yfirleitt hægt að ýta á takka og færast á milli skjámynda/vefsíða í viðmótinu

Visual and aesthetic look of the interface shown on computer screen or other equipment. Color, size, shape and style are used to support and extend the function and use of the interface.

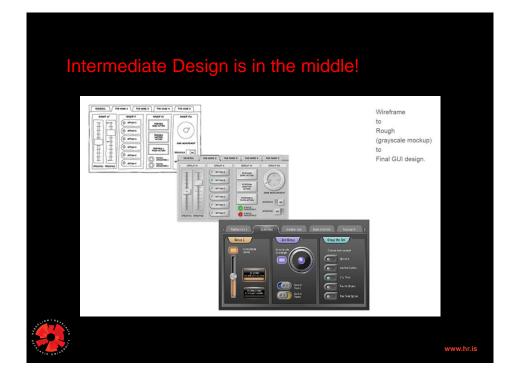
Here you can most often use buttons or links to move from one screen/web page to another in the interface







# F-pattern • The focus is on the upper left corner, • Where is the upper left corner? • If not directed on another spot for example with an image • Eye-tracking research



# Graphic design

- Overall graphic design would also start coming into play at the intermediate design level
- but is not a part of this course (only how visual elements might affect the UI)





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## We look at the following

### 1. Colors

— How do the colors fit together? How can we use colors to give better information? How can we be sure that the colors we use have the right association?

### Images

— What types of images are available? How can we pick the right one?

### Movement

When is it good to use movement, blinking, ....

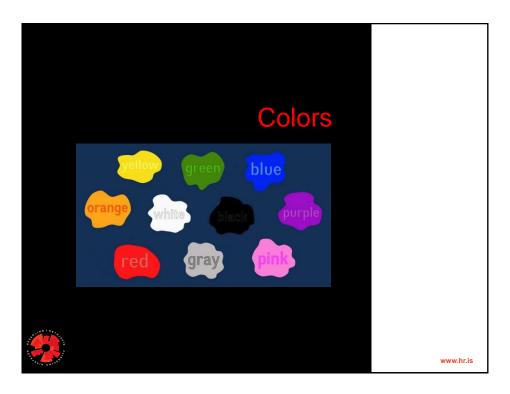
### Sound

When is it usable to use sound? What types of sound are there?

### 5. Text

How can we make sure that the text is readable? What font should be choose? How long should the lines be?





# We Can Use Color to

- Place the focus of attention to something
  - Red and yellow are particularly good
- To show the state of something
  - If the status is critical, we change the color
- To make the information clear
  - Colors are good to mark related items
  - We can color the text, a box around or the background
  - To make the interface more attractive
    - Usability is more important though

# Connotations of colors

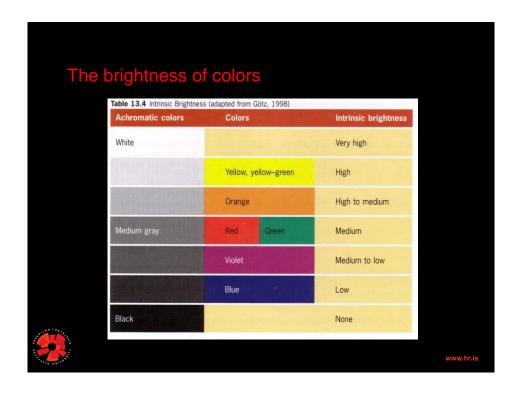
- Culturally sensitive
- Color blindness
  - Affects 7-10%, predominantly male
- Beware of contrast
  - Saturation better than different colors
- Never rely solely on color for important information, use shape too

Color	Positive connotations	Negative connotations
Red	Active, invigorating, exciting, powerful, strong, energetic, attractive, dominating	Aggressive, alarming
Blue	Controlled, abstinent, mysterious, intellectual, harmonious, deep, dreamy, faithful, rational, sensible	Aggressive, introverted, cold, melancholic
Blue-green or turquoise	Refreshing	Aloof, self-willed, unemotional, cold, sterile
Green	Refreshing, harmonious, optimistic, close to nature, calm, gentle, conciliatory, strong-willed	Jealous, envious, inexperienced
Yellow	Colorful, extraverted, cheerful, youthful, lively, full of fun, light	Superficial, exaggerated, vain
Orange	Exciting, direct, joyful, alive, communicative, warm	Intimate, vigorous, possessive, cheap
Purple	Serious, royal, luxurious	Sad

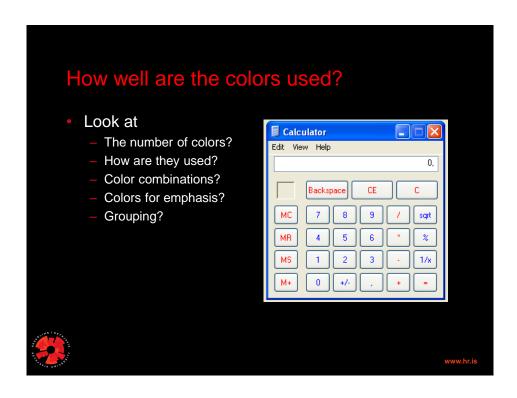


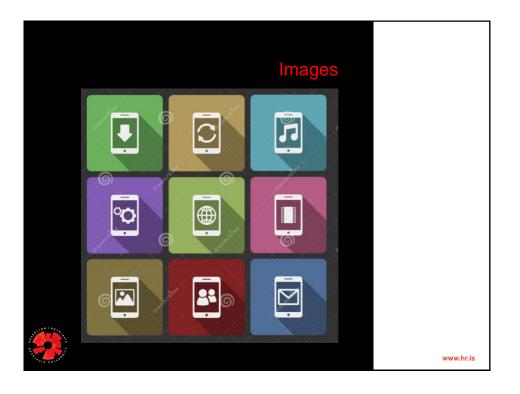
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# Color combinations White on yellow is hard to read White on black is easy to read Figure 13.3 Poor contrast is hard to read (Adapted from Götz, 1998) Background and text color are tricky Has to be enough contrast But not too much (dyslexia) White background is not good on a screen Important to test! http://color/siontesting.com/online%20test.htm http://www.xrite.com/online%20test.htm http://www.xrite.com/online-color-test-challenge www.accesskeys.org/tools/color-contrast.html Red on blue Blue on red Green on pink Pink on green Vellow on dark blue Figure 13.4 Some color combinations are hard to read (Adapted from Götz, 1998)



# . Bezold. Farbenlehre Purpur Colors continued Big space with basic colors are visually disturbing Color combinations - How do we pick many colors? - Palettes <a href="https://coolors.co/">https://coolors.co/</a> Grün. The number of colors Too many are disturbing - Not more than 6 plus black and white The opponent colors - Red - green - Yellow - purple - Orange - blue Brownschweig, Veolag um G West





### **Images**

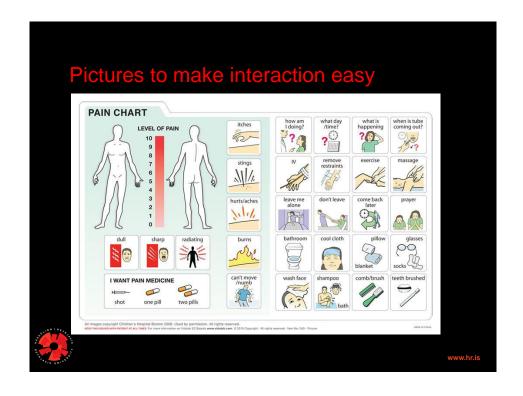
### We can use images for

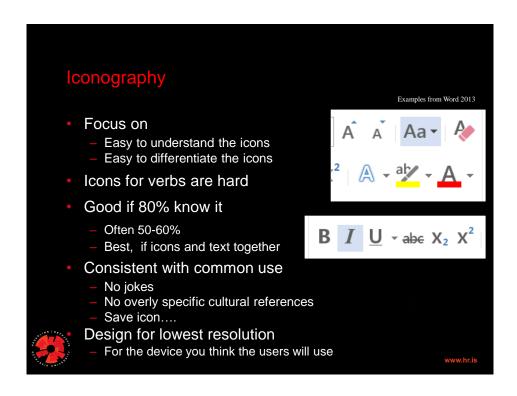
- 1. Getting attention, make the interface interesting,...
- 2. To show information
- 3. To help if the language is hard
- 4. To assist the interaction
  - Metaphors, icons

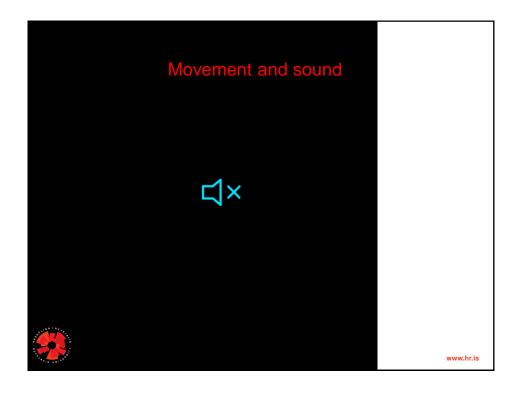
### We have some types of images:

- Pictures: Photos, drawings, cartoons
- Graphs: Shows some numbers
- Icons: Communicate meaning









### Movement

- Is most useful to get the attention
  - Does not need much blinking cursor
- Can be very tiring if too much
  - Distracts
- Can also be used
  - To give feedback
    - · Files fly from one folder to another
    - Mac login failed: https://www.youtube.com/watch?v=W\_WRCMGs1f0



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### Sound

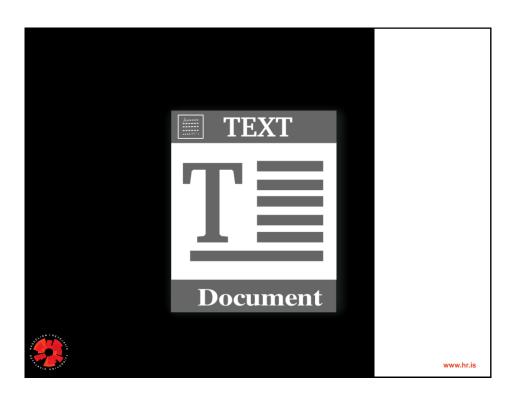
- Good if you need people's attention
  - People have to concentrate on something else than the system
  - Some functions that the user does not want to watch
  - If people do not have 100% eye sight
- Group sound in the following classes:
  - Sound effects
  - Music
  - Spoken language
- Sound used to
  - Show that you have picked an interface widget
  - Confirm that something has happened or is about to happen email send/receive | calendar | messenger



# Communicating with sound

- Use sound with caution
  - A first time user has to understand it
- Various purpose:
  - Confirming typing- smooth sound
  - Finish a task- more dominant sound
  - Minor error- a bit disturbing sound
  - Major error the database collapsed Fire alarm!
- We have to take the context into account
  - A store vs. an office
  - The user select if he wants the sound or not





### **Text**

### Advantages:

- Text files are small
  - Much smaller than when other media is included
- Can be manipulated very easily
  - It is possible to search for text
- Text is less ambiguous
  - Than images and sound

### We emphasize that the text is

- Legible
- Readable
- Comprehensible
  - See: https://www.nngroup.com/articles/legibility-readabilitycomprehension/



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# Legibility

- The lowest-level consideration in content usability
- It's whether people are able to
  - See
  - Distinguish
  - Recognize
  - the characters and words in your text
- Legibility is thus mainly determined by
  - visual design, specifically typography

Speak the Users Language



# Legibility - Guidelines

- Use a reasonably large default font size
  - Allow users to change the font size tiny text dooms
  - Old users need bigger text, but even young users like it
- High contrast between characters and background
  - Preferably, employ a plain background instead of a busy or textured one, since the latter interferes with the recognition of the fine details in the letterforms.
- Use a clean typeface
  - With today's high-resolution monitors, serif type is fine, but strangely shaped fonts (e.g., emulating handwriting or gothic style) have reduced legibility
    - · This is Helvetica, a sans-serif font
- A PARTY OF THE PROPERTY OF THE

Times New Roman is a commonly used serif font

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## Readability - Guidelines

- Use plainspoken words
  - The shorter the better
  - Avoid fancy words & made-up terms
- Use short sentences
  - Avoid convoluted and compound sentences
- Mainly write in the active voice
- Aim at an 8<sup>th</sup>-grade reading level
  - Especially if targeting a broad consumer audience
- Readability can be tested in Word





## Comprehension - Guidelines

- Use user-centric language
  - terms familiar to your audience facilitate comprehension.
- Use an inverted-pyramid writing style
  - start with the conclusion or an overview of the main point.
     People relate better to subsidiary points when they already know the basics.
- Minimize cognitive load
  - build on existing mental models and reducing the need for users to remember things from one part of text to another.
- Use Pictures or conceptual diagrams
  - can sometimes explain things better than reams of words



Be brief

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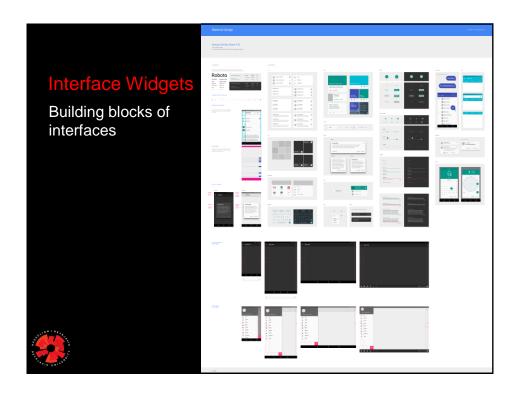
### Tone of voice

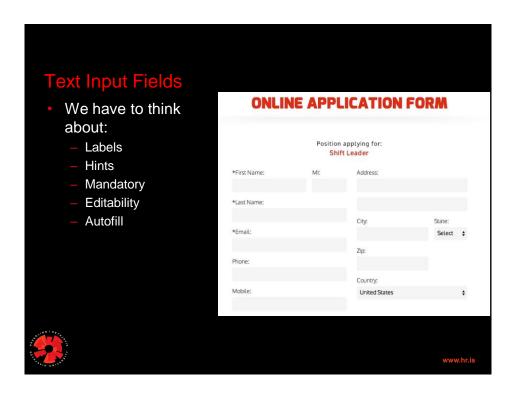
- How do you want to talk to your users?
  - Casual, friendly
    - Hey there, <username>
  - Formal
    - Logged in <username>
  - Goofy
    - Yabbadabbadoo, <username>
  - Sincere
    - Thank you for being here, <username>
  - Impersonal
    - Logged in

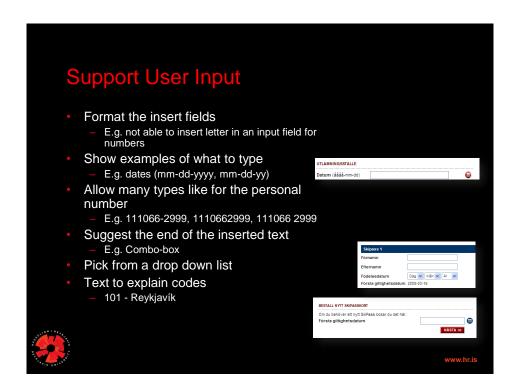
- ..

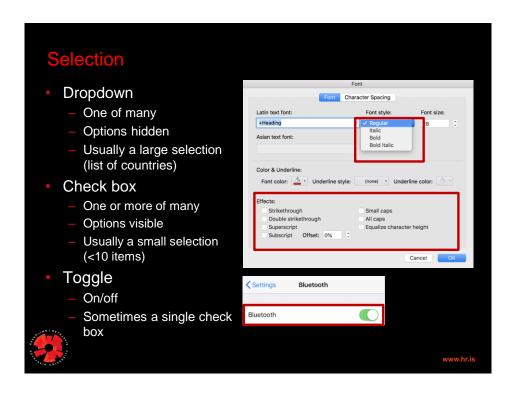


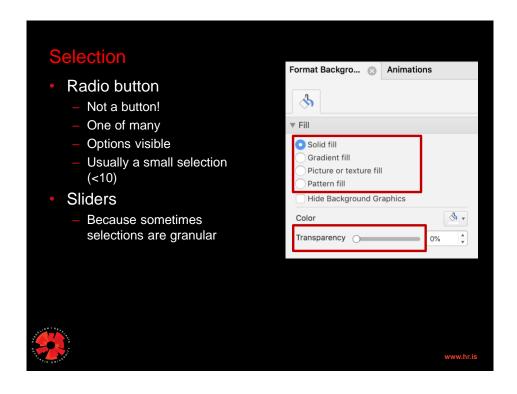












	The trick is knowing what widget to use	where
	•	
	1. Í hvaða tilgangi heimsóttir þú vefinn núna?	
	Almennar upplýsingar um EHÍ	
	Skoða framboð námskeiða	
	Skoða námskeið á næstunni	
	Skoða ákveðið/n námskeið	
	Skoða námsbraut/ir	
	Skoða náms- og starfsráðgjöf	
	Annað, hvað?	
	Allt í lagi	
	0 af 12 svaraði	
A CALL OF SERVICE	Gat bara valið eitt – er þetta rétt hönnun?	www.hr.is



