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Legibility in typeface design for screen interfaces

Johannes Neumeier

Master's Thesis

Aalto University School of Arts, Design and Architecture

New Media – New Media Design and Production

2017

Research: *What is an interface typeface?*

Project: *Design one!*

Why new typefaces?

Silta 

Same difference

Same difference

Same difference

Same difference

Same difference

Same difference

coming quite low

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
1 2 3 4 5 6 7 8 9 0 & @ . , ? ! ' " " ()

*Strong
shoulder* *Slightly asymmetrical bowls
quite condensed caps*

Clear Sans

A typeface design for "[l]egibility, readability, and glanceability on low-resolution screens". Prominent features such as open counters, explicit glyph shapes and high x-height support legibility in small sizes. The angular round shapes, angular shoulders and overall even width lend a strong and modernist character.



Segoe UI

Designed as an humanist interface font for use in Microsoft products (originally developed by Agfa Monotype) this font bears similarities to Tahoma and Frutiger, but has some more

A B C D E F G H I J K L M
 N O P Q R S T U V W X Y Z
 a b c d e f g h i j k l m
 n o p q r s t u v w x y z
 0 1 2 3 4 5 6 7 8 9 ! & %

A B C D E F G H I J K L M
 N O P Q R S T U V W X Y Z
 a b c d e f g h i j k l m
 n o p q r s t u v w x y z
 0 1 2 3 4 5 6 7 8 9 ! & %

minimum
 milliliter
 oOoO

Grumpy wizards make toxic brew for the evil Queen and Jack. One morning, when Gregor Samsa woke from troubled dreams, he found himself transformed in his bed into a horrible vermin. He lay on his armour-like back, and if he lifted his head a little he could see his brown belly, slightly domed and divided by arches into stiff

minimum
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 oOoO

Grumpy wizards make toxic brew for the evil Queen and Jack. One morning, when Gregor Samsa woke from troubled dreams, he found himself transformed in his bed into a horrible vermin. He lay on his armour-like back, and if he lifted his head a little he could see his brown belly, slightly domed and divided by arches into stiff sections. The bed-

minimum
 milliliter
 oOoO

Grumpy wizards make toxic brew for the evil Queen and Jack. One morning, when Gregor Samsa woke from troubled dreams, he found himself transformed in his bed into a horrible vermin. He lay on his armour-like back, and if

minimum
 milliliter
 oOoO

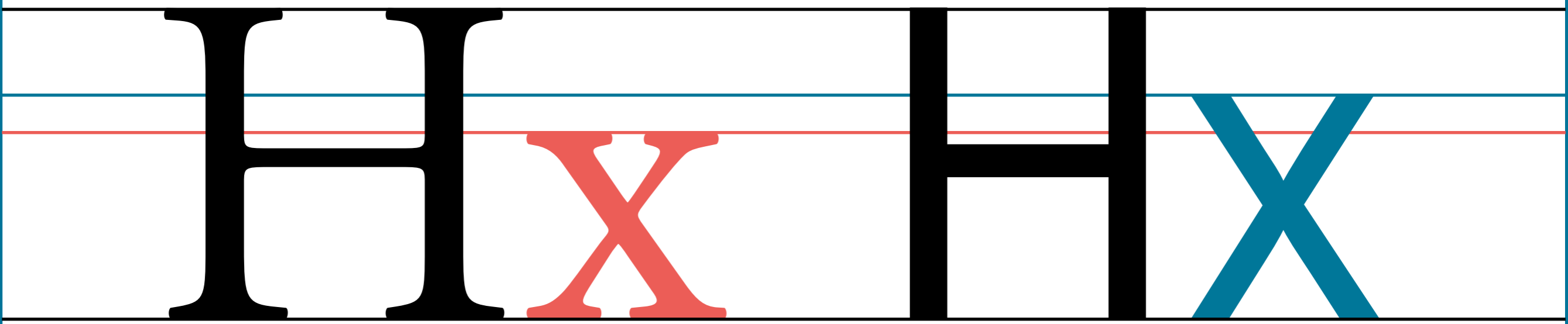
Grumpy wizards make toxic brew for the evil Queen and Jack. One morning, when Gregor Samsa woke from troubled dreams, he found himself transformed in his bed into a horrible vermin. He lay on his armour-like back, and if

Apex Image Helpo

onb round shapes with strong curve tension
 nqg shoulder and bowls with diagonal angle
 AP low verticals for good legibility in small sizes

Strict Xeon Inking

CS1rrt36 straight vertical cuts on terminals
 J11 optical compensation in crotch and stem connections



fg

fg

Hx

Hx

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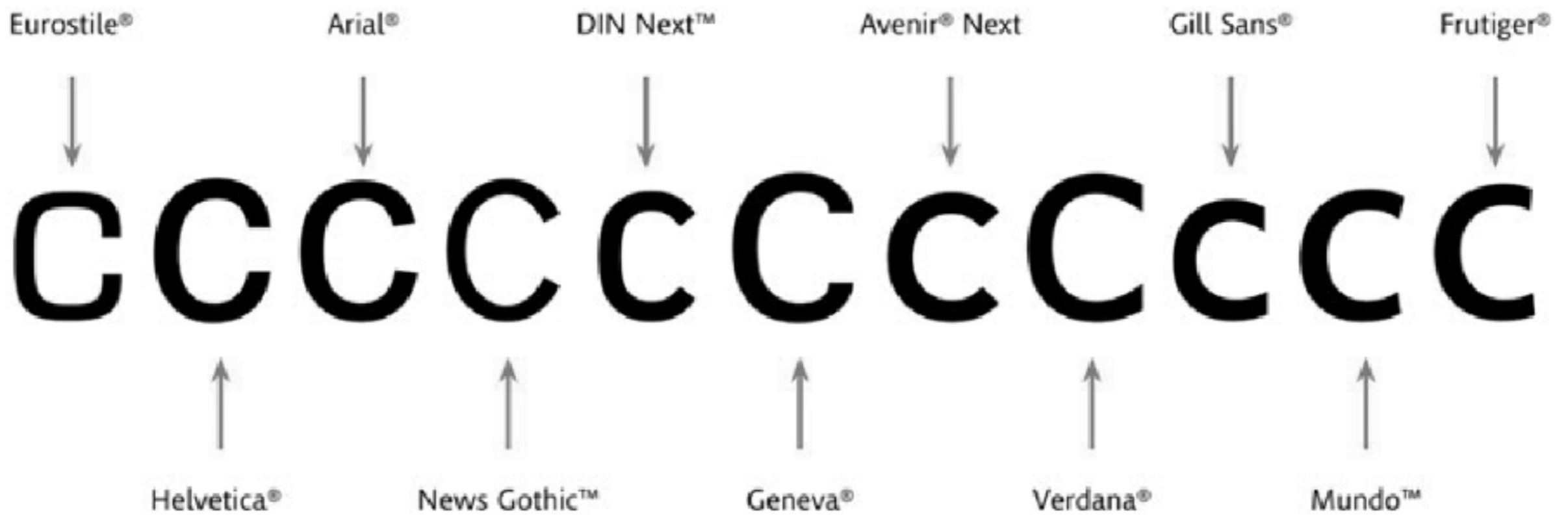
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Image: Beier, 2012, Reading Letters

Fiset et al, 2008, Features for identification of uppercase and lowercase letters

III II1 II1 II1 II1 II1

I I III students are missing?

11 III students are missing!

Reading & interfaces



WIKIPEDIA
Frjálsa alfræðiritið

Forsíða
Úrvalsefni
Efnisflokkar
Handahófsvalin síða
Hjálp

Verkefnið
Nýlegar breytingar
Nýjustu greinar
Samfélagsgátt
Potturinn
Fjárframlög

Prenta/sækja
Búa til bók
Sækja PDF-skrá
Prentvæn útgáfa

Í öðrum verkefnum
Wikimedia Commons

Verkfæri
Hvað tengist hingað
Skyldar breytingar
Hlaða inn skrá
Kerfissíður
Varanlegur tengill
Síðuupplýsingar
Wikidata hlutur
Vitna í þessa síðu

Á öðrum tungumálum 
Deutsch
English
Español
Eesti

Síða **Spjall**

Lesið **Breyta** **Breyta frumkóða** **Breytingar**

Eyjafjallajökull

Eyjafjallajökull (ⁱe-ja-fjallajökul ⁱe-ja-fjallajökul) er sjötti stærsti jökull Íslands. Undir jöklinum er **eldkeila** sem hefur gosið fjórum sinnum síðan land byggð árið **920**, þá **1612**, **1821** og **2010**. Öll þessi gos hafa verið frekar lítil. Þegar gaus árið **1821** stóð gosið til ársins **1823**. Gos hófst svo á **Fimmvörðungshálsi** **20. mars 2010** austan við Eyjafjallajökul. Þann **14. apríl 2010** hófst gos undir jökulhettunni.

Eyjafjallajökull er einn af hæstu tindum Íslands, um 1.666 m hár. Úr jöklinum renna 2 skriðjöklar sem heita **Steinholtsjökull** og **Gígjökull** en báðir til norðurs í átt að **Þórsmörk**. Hafa þeir á síðustu árum hörfað mikið og er Gígjökull nánast að hverfa.

Eyjafjallajökull og Mýrdalsjökull eru næst hvor öðrum á **Fimmvörðungshálsi**. Þar reka **Ferðafélag Íslands** og **Útivist** 2 gistiskála sem heita **Baldvin** og **Fimmvörðuskáli**. Eyjafjallajökull er mjög varasamur til ferðalaga vegna jökulsprungna en jökullinn er mjög brattur og sprunginn.

Eldgos í Fimmvörðungshálsi 2010 [breyta | breyta frumkóða]

Aðalgrein: Eldgosið í Fimmvörðungshálsi 2010

Lítið eldgos varð **2010** á **Fimmvörðungshálsi**, austan Eyjafjallajökuls, og stóð frá **21. mars** til **13. apríl** það ár. Fyrstu merki um gosið sáust kl. 23:50 þann 21. mars. Þá voru talin vera í Eyjafjallajökli. 2010^[1] . Síðar kom í ljós að gossprungan var á Fimmvörðungshálsi.

Eldgos í Eyjafjallajökli 2010 [breyta | breyta frumkóða]

Aðalgrein: Eldgosið í Eyjafjallajökli 2010

Eldgos hófst í toppgíg Eyjafjallajökuls að morgni **14. apríl 2010** og stóð til **23. maí** það ár.

Heimildir [breyta | breyta frumkóða]

- „Eyjafjallajökull“ , skoðað þann 28. desember 2005.
- „Eyjafjallajökull“ , skoðað þann 28. desember 2005.

s · r · b

Jöklar á Íslandi

Drangajökull · Eiríksjökull · **Eyjafjallajökull** · Gljúfurárjökull · Hofsjökull · Langjökull · Mýrdalsjökull · Snæfellsjökull · Tindfjallajökull · Torfajökull · Tungnaá- og Þrándarjökull · Örfajökull



Þessi *Íslandsgrein* sem tengist *landafræði* er *stubbur*. Þú getur hjálpað til með því að bæta við greinina.

Feature level:

lt eco rnm

Letter level:

a is an a is an a

Word level:

this and tbis

Semantic level:

dogs and oats

Project progress

opalim

opalim

diggy down wide *o less contrast*

hamburgerfonstiv
odpqb nhmru
wxzy oce agse qyj jitfl
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
aAbBcCdDeEfFgGhHiIjJkKlLmMnNoOpPqQrRsStTu
UvVwWxXyYzZ
0123456789
H0H1H2H3H4H5H6H7H8H9H
000102304o5o6o7o8o9o

J horizontal & rounder and wider
C too heavy
e terminal too short
W too heavy
& too heavy
all round top & on top
need another
more extra contrast
& needs stroke down spine stroke
o need
o need
terminal wider and round

31 1985 2015 12.75 0.97 47 95 13 89
OO 1IL 2SZ 3EB 4ZK 5SR 6O 7ZS 8SO 9O

Waxy and quivering jocks fumble the pizza.
When zombies arrive quickly fax judge Pat.
Heavy boxes perform quick waltzes and jigs.
A wizard s job is to vex chumps quickly in fog.

Sympathizing would fix Quaker objectives.
Pack my red box with five dozen quality jugs.
Blew J s computer quiz favored proxy hacking.
Quads of blowzy fjord ignite map vex d chicks.
Fake bugs put in wax jonquils drive him crazy.

reluctant
Sylvia wagt quick den Jux bei Pforzheim
Franz jagt im komplett verwahrlosten Taxi quer durch Bayern
Victor jagt zw lf Boxk mpfer quer ber den gro en Sylter Deich
Fix Schwyz qu kt J rgen bl d vom Pa
Quick Schwyz J rgen squawks zanily from

nononon nnnncccccccccccccccccccc
nononon nnnncccccccccccccccccccc
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nononon nnnncccccccccccccccccccc
nononon nnnncccccccccccccccccccc
nononon **nnnncccccccccccccccccccc**
nononon **nnnncccccccccccccccccccc**

o looks more strongly curved than o

H0H0H0H HHHH000HH0HCOHHH0000
H0H0H0H HHHH000HH0HCOHHH0000
H0H0H0H HHHH000HH0HCOHHH0000
H0H0H0H HHHH000HH0HCOHHH0000
H0H0H0H HHHH000HH0HCOHHH0000
H0H0H0H HHHH000HH0HCOHHH0000
H0H0H0H HHHH000HH0HCOHHH0000

check o marked in regular & l, hold

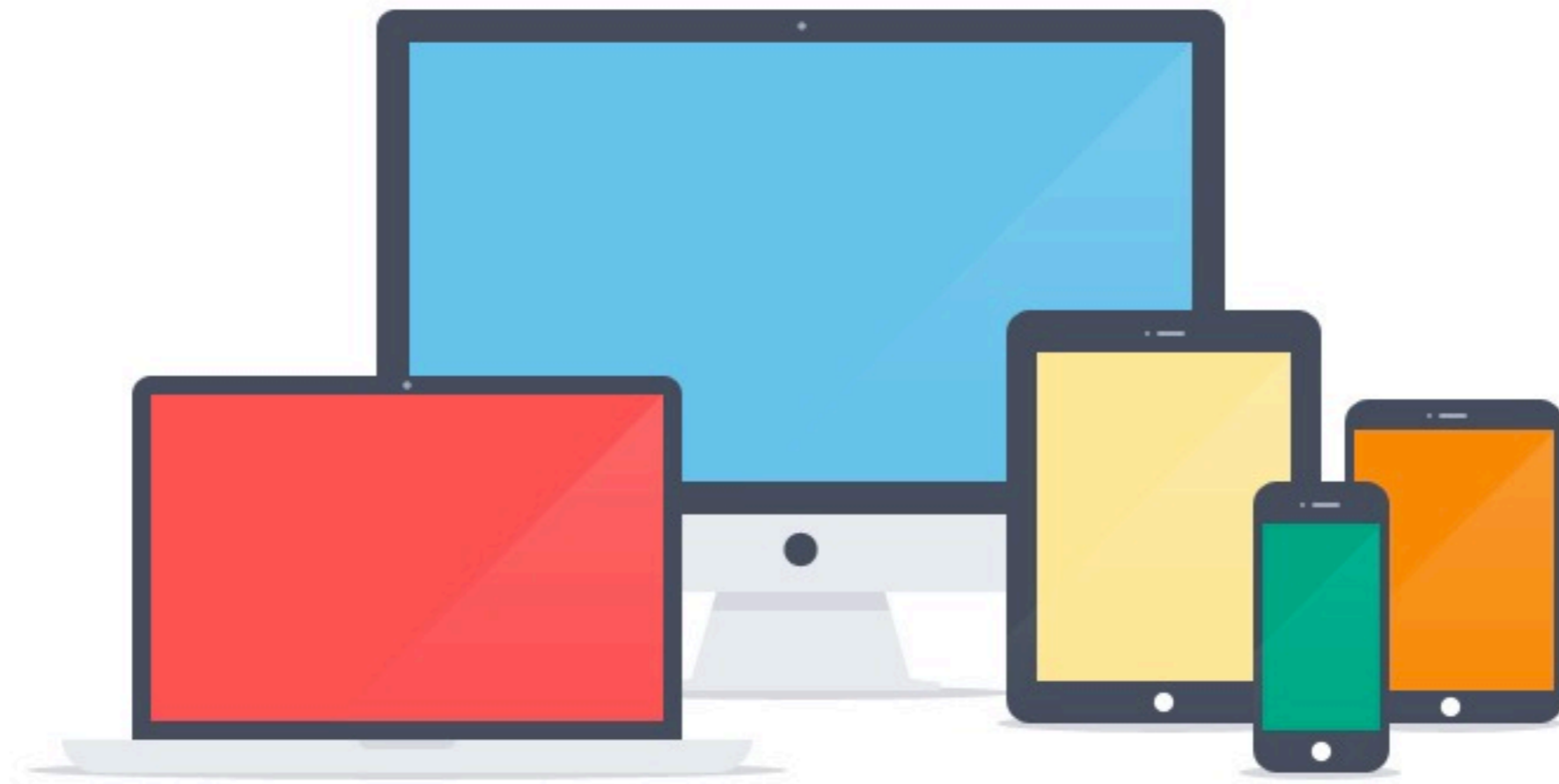
aA aA aA

aA aA aA

aA aA **aA** aA aA aA **aA**

aA *aA* ***aA*** *aA* *aA* *aA* ***aA***

The future



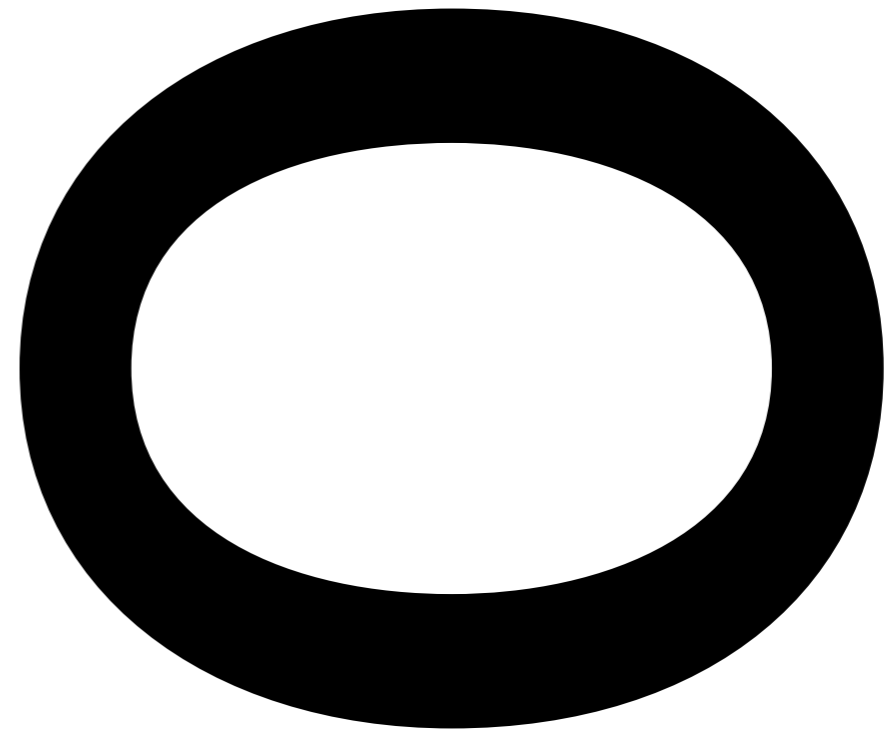
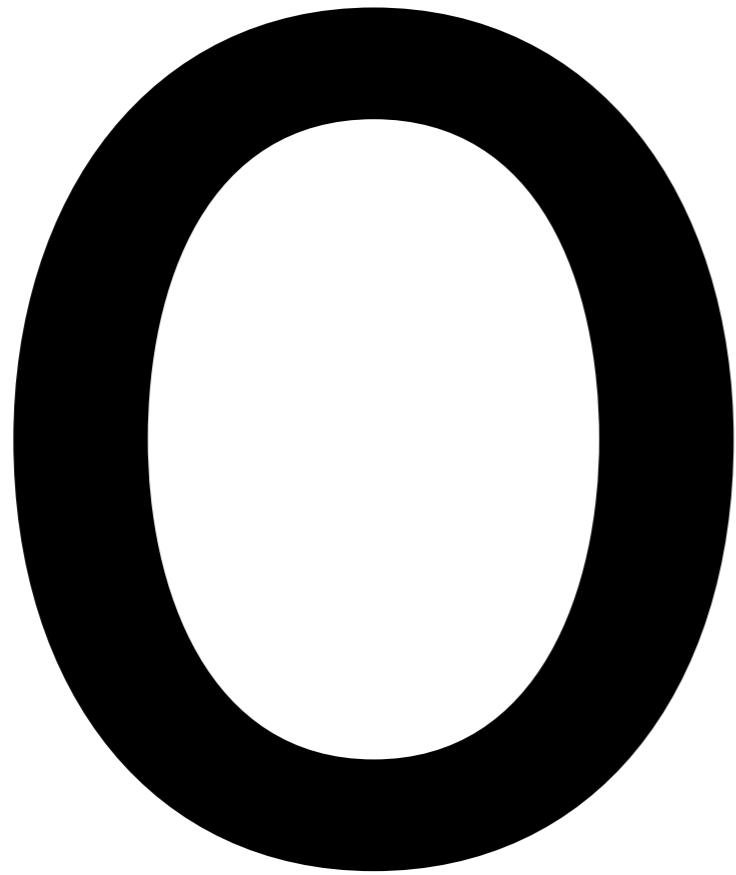
Thank you

USER INTERFACE

The **user interface (UI)**, in the **industrial design** field of **human-computer interaction**, is the space where interactions between humans and machines occur. The goal of this interaction is to allow effective operation and control of the machine from the human end, whilst the machine simultaneously feeds back information that aids the operators' **decision-making** process. Examples of this broad concept of *user interfaces* include the interactive aspects of computer **operating systems**, hand **tools**, **heavy machinery** operator controls, and **process** controls. The design considerations applicable when creating *user interfaces* are related to or involve such disciplines as **ergonomics** and **psychology**.

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Adjektivo *gentonomo septiliono* if jam,
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