

{ Java Coding School }

UI DESIGN GUIDELINES

10 Usability Heuristics for Creating Interfaces

Sotiris
Sotiropoulos



Zanshin
Labs

Command Sector (North)

Polar Trench

Superlaser
Focus Lens

design expectations?

Mid-Hemisphere
Trench

Quadanium Steel
Outer Hull

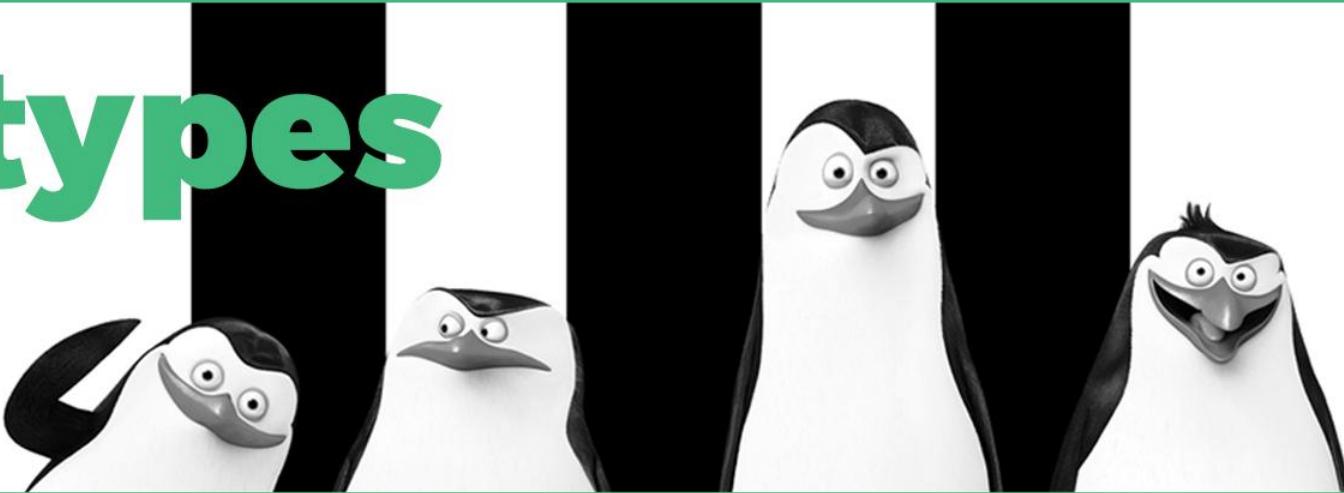
Hangar Bay
327

Equatorial
Trench

City Sprawls

How many different designer

types



types are you familiar with?

CHOOSE YOUR FIGHTER



UX



UI



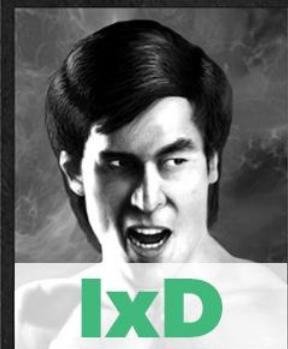
VD



GD



IA



IxD



PD

VISUAL DESIGN

Visual design is the use of imagery, color, shapes, typography, and form to **enhance** usability and improve UX.

- UX Booth

What is the difference with **UI**?

UI = _____ + **VISUAL DESIGN**

What is the difference with UI?

UI = **INTERACTION** + **VISUAL DESIGN**



PRETTY
DOES NOT
MEAN
FUNCTIONAL

UX

User experience
encompasses **all aspects**
of the end-user's interaction
with the company, its services,
and its products.

- Don Norman



reddit

what's hot

new

controversial

top

more ▾

antibiotic (1) | preferences | stats | help | blog | logout

search



↑ "the only thing more dangerous than ignorance is arrogance" A.E.
• (climatechangefraud.com)
↓ submitted 4 minutes ago by tat2ts to science

[what's this?](#)

- ↑ Don't mess with motherfuckin' scientists (news.yahoo.com)
1 616 submitted 8 hours ago by jaems to science
↓ 129 comments share save hide report

- ↑ City-owned fiber network a go as judge tosses telco lawsuit (arstechnica.com)
2 748 submitted 12 hours ago by emberjohnny to technology
↓ 91 comments share save hide report

- ↑ Waiting for dinner [Pic] (lh3.ggpht.com)
3 1147 submitted 14 hours ago by Mastrmind to pics
↓ 215 comments share save hide report

- ↑ You Fell Asleep Watching a DVD (youfellasleepwatchingadvd.com)
4 602 submitted 12 hours ago by jmw to WTF
↓ 281 comments share save hide report

- ↑ I feel sorry for the fat one. (gmilburn.ca)
5 965 submitted 15 hours ago by billmeyersriggs to funny
↓ 360 comments share save hide report

- ↑ The Bush administration this month is quietly
6 921 control supplies to some of the world's poorest countries (nytimes.com)
↓ submitted 19 hours ago by aenea to worldnews
325 comments share save hide report

- ↑ The Daily WTF: Out of All the Possible Answers... (thedailywtf.com)
7 165 submitted 10 hours ago by shenglong to programming
↓ 173 comments share save hide report

- ↑ Ohhhhh shiitttttttt [GIFs] (koehnline.com)

Customize your reddit

Select which communities you want to see

- | | |
|--|---|
| <input checked="" type="checkbox"/> PICS | <input checked="" type="checkbox"/> WTF |
| <input checked="" type="checkbox"/> FUNNY | <input checked="" type="checkbox"/> PROGRAMMING |
| <input checked="" type="checkbox"/> TECHNOLOGY | <input checked="" type="checkbox"/> SCIENCE |
| <input checked="" type="checkbox"/> WORLDNEWS | <input type="checkbox"/> POLITICS |
| <input type="checkbox"/> REDDIT.COM | <input type="checkbox"/> BUSINESS |
| <input type="checkbox"/> ECONOMICS | <input type="checkbox"/> ENTERTAINMENT |
| <input type="checkbox"/> COMICS | <input type="checkbox"/> OBAMA |

it might be
UGLY
but it works **well**



...because this room is full of win!

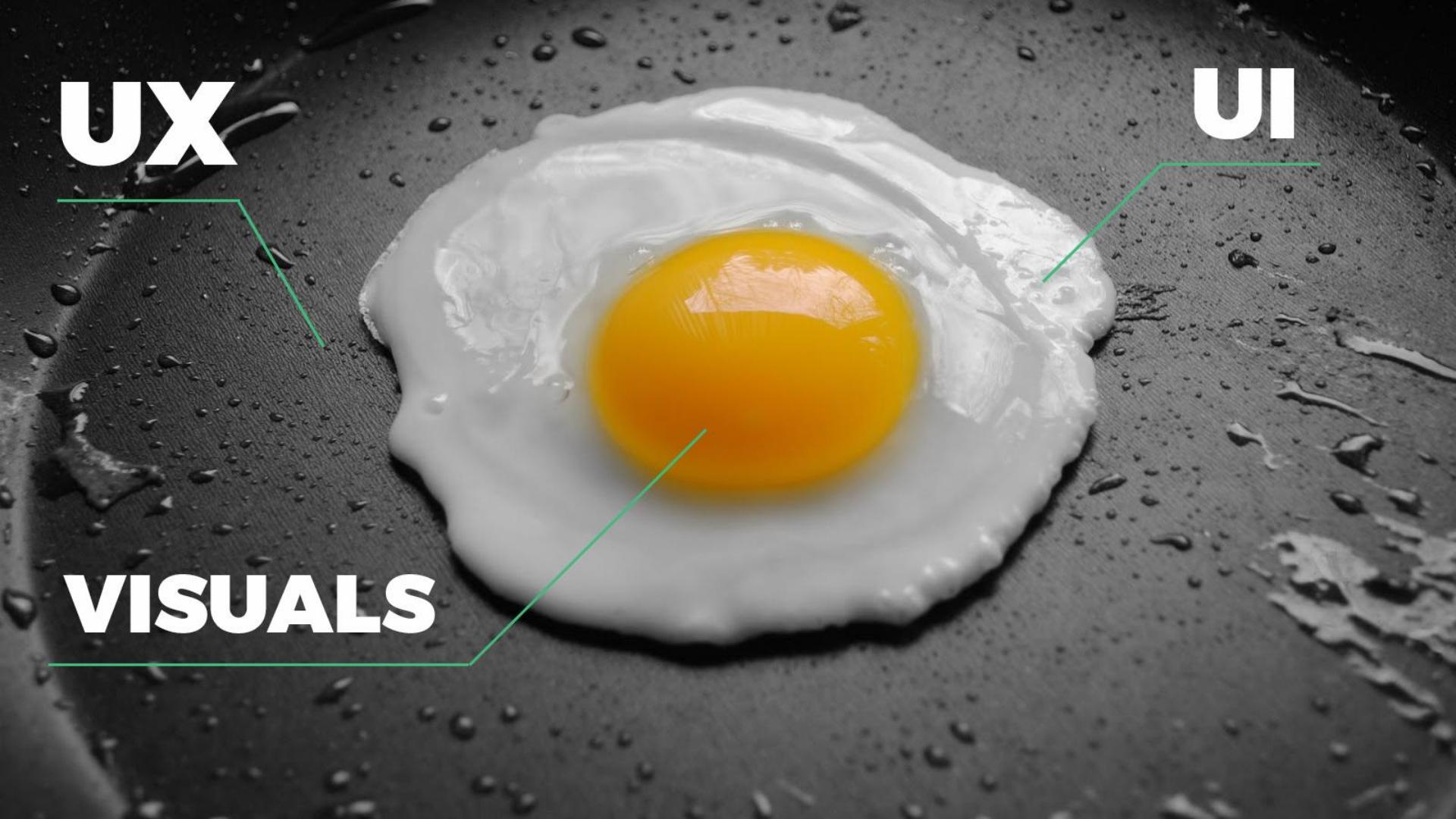
...because 4chan is getting overcrowded.

design?

UX

UI

VD



UX

UI

VISUALS

UX

VS

UI



UX

VS

UI

UI



UI



UX

VS

UI



Worse UX



Better UX

UX
VS
UI

UI



Worse UX ?

UI



Better UX ?

An **interface**
always comes
with a certain
experience ,
either good
or bad.



VD

is typically based on taste and preference,
so it's **not quite measurable**

UXD

is based on metrics and evidence,
making it fully **measurable**

A black and white photograph of a man in a suit shouting and pointing a handgun, with a woman in the background.

Say your
OPINION
again

I dare you...
I double dare you



HOW CAN WE MEASURE UX?

USABILITY

Usability is a quality attribute that assesses
how **easy** user interfaces are to use

- Don Norman

ways to ensure & enhance

USABILITY

USER
TESTING

USABILITY
GUIDELINES

INDEX

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01 VISIBILITY

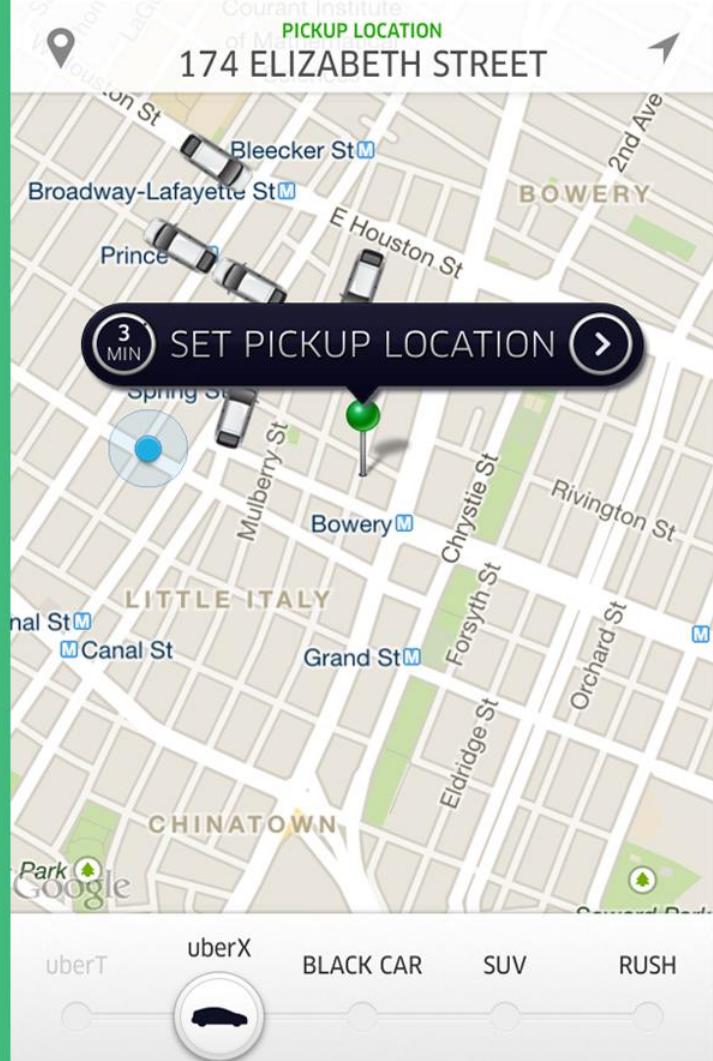
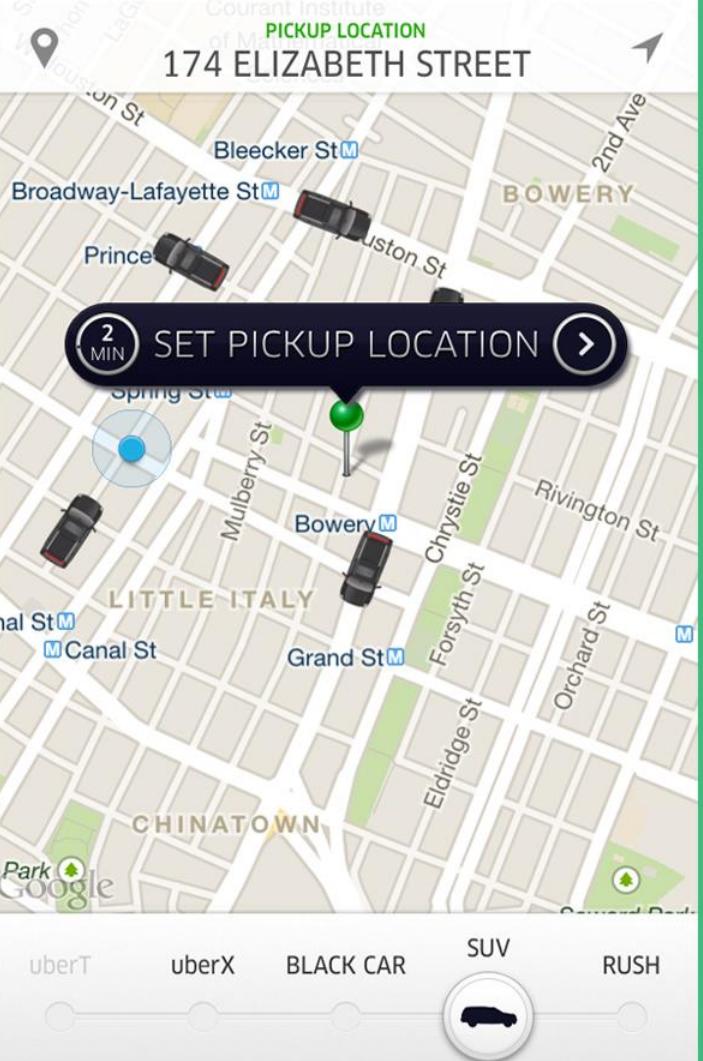


Provide feedback
on **current system state**
& on **user interactions**

e.g.

01

Uber Mobile App



02 MAPPING



**Employ user-familiar language
and natural, real-life conventions**

02

Insurance Mobile App Registration

e.g.



Group membership found

Thanks. That was a group policy to which you are a member. Give us your membership number to setup your online account.

Membership
Card



5563-8792-2259

Membership No.

Back

Submit

all relevant invoices and receipts are attached – photocopies only.
If you have any questions regarding this form or any other
1892 503 856. Fax: +44 1892 503 189.

Membership number:

Claim number:

Date of birth:

Daytime/evening phone number: Country code Area code Number

Fax number/email address:

Date patient was first aware of symptoms/condition:
Day Month Year

Telephone number: Country code Area code Number

Fax number:

bills direct with the hospital and medical practitioner concerned. If the accounts we have paid the accounts then we will require receipts and reimburse you direct.

If you are claiming for treatment received outside your Area of Cover, please answer the following questions.

- (a) Country where treatment took place
- (b) The reason for the patient being abroad
- (c) Dates of departure and return to own Area of Cover
From _____ To _____

Are you claiming cash benefit for in-patient treatment received without charge?
Please tick ✓ Yes No

If Yes please ensure the doctor clearly indicates the admission and discharge dates and that a certificate confirming this is supplied by the hospital.
Admission date and time _____ Discharge date and time _____



03

CONTROL

**Provide “emergency exit” options
and undo/redo functions**

03

Gmail Notification

e.g.

A screenshot of a Gmail inbox interface. At the top, there is a search bar with a magnifying glass icon and a dropdown arrow. Below the search bar, a yellow banner displays the text "Your message has been sent. Undo View message". Underneath the banner are three buttons: a square with a downward arrow, a circular refresh icon, and a "More" button with a downward arrow. To the right of these buttons, the text "1-9" is displayed. Below this header, there are three main categories: "Primary" (indicated by an envelope icon), "Social" (indicated by a people icon), and "Promotions" (indicated by a gift tag icon). The "Promotions" category has a small "2" next to it, indicating two messages. The main body of the inbox shows three messages, each represented by a row with a checkbox, a star icon, and a double arrow icon.



04 CONSISTENCY

**Follow similar patterns & conventions
across screens.
Place related items together.**

e.g.

04

Aspis Real Estate Search Input

Sales

- Apartments
- Maisonettes
- Houses
- Land
- Stores
- Offices
- Office Buildings
- Development

Rentals

- Apartments
- Maisonettes
- Houses
- Land
- Stores
- Offices
- Office Buildings
- Development

The screenshot shows the Aspis Real Estate website's search functionality. At the top, there is a navigation bar with the Aspis logo and "Real Estate". Below the navigation is a large banner image of a modern building's interior lobby. The banner text reads "Greece's Top Realtor". The search form below the banner includes radio buttons for "Sales" and "Rentals", a dropdown menu for "Property Type", input fields for "Area" and "Sq. Meters" with "Min" and "Max" buttons, input fields for "Price" with "Min" and "Max" buttons, and a "Construction Year" section with "Min" and "Max" buttons. A prominent red "Search" button is located at the bottom of the form. At the very bottom of the page, there is a footer with links for "NEW SEARCH", "Home", "Career opportunities", "Assign your property to us", "Contact us", and copyright information.





05 ERROR PREVENTION

Eliminate **error-prone conditions
& provide **confirmation** options**

05

Online Fantasy Football Betting Service

e.g.

The screenshot shows a mobile application interface for a fantasy football betting service. At the top, there are two large team names: "M.UNITED" and "CHELSEA". Below each team name is a table with three rows, each containing a "Statistic Name" and a value of "999". In the center, between the two teams, is a summary section. It shows "Team Total Pool" for both M.UNITED (£999) and CHELSEA (£999), and "Your Bet Total" for both (£999). Below this summary are two large buttons: "BET ON M.UNITED" and "BET ON CHELSEA". Each button has a yellow "X" icon on the left, a text input field in the middle containing "Type or select amount", and a yellow "BET" button on the right. The background of the app is dark grey, and the overall design is clean and modern.

CHANGE PASSWORD

We recommend to change your Password often. Never share your Password with other people.

CANCEL

CONFIRM



06 RECOGNITION

Remove user **memory load
& make important info **retrievable****

06

Wind MyF2G User Profile

e.g.

The screenshot shows the Wind MyF2G User Profile application interface. At the top, there are navigation icons (back, home, search, etc.) and a battery status bar indicating 78% charge at 14:29. Below the header, the word "Status" is displayed next to a profile icon and a refresh icon.

To υπόλοιπο του λογαριασμού σου είναι:

16,98€

Ο υπολειπόμενος χρόνος ομιλίας λήγει: 19-01-2017
Η τελευταία ενημέρωση έγινε: 28-10-2016 | 14:29:08

Δες τώρα τα Log n Win δώρα!

Υπόλοιπο από Bonus

101' 43"	προς WIND & Q	τα 101' 43" λήγουν 19-11-2016
334' 37"	προς όλους	τα 34' 37" λήγουν 31-10-2016
1488'	Προς Magic Number	τα 1488' λήγουν 20-11-2016
1023.96 MB	MB	τα 1023.96 MB λήγουν

e.g.

06

Wind MyF2G User Profile



Status



Το υπόλοιπο του λογαριασμού σου είναι:

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Υπόλοιπο από Bonus

προς WIND & Q

101' 43"

τα 101' 43" λήγουν

19-11-2016

προς όλους

334' 37"

τα 34' 37" λήγουν

31-10-2016

Προς Magic Number

1488'

τα 1488' λήγουν

20-11-2016



MB

1023.96 MB

τα 1023.96 MB λήγουν



Λογαριασμοί



X ιωαννίδης (89443134379)



X ιωαννίδης (89443134379)



A black and white photograph showing a row of U-Scan Genesis self-service kiosks. The machines are made of stainless steel and feature touchscreens. One screen displays the message "Lane Open". Other screens show various service options like "Self Scan", "Fuel Scan", and "Pay Scan". There are coin slots and bill acceptors labeled "Cash In" and "Change Out". A small green circular graphic containing the number "07" is overlaid on the left side of the image.

U-Scan Genesis

07

FLEXIBILITY

Provide **accelerators** & shortcuts for
frequent user actions and **advanced users**

07

Sourcelair Online IDE Project Creation

e.g.

Basic **Custom**

Project Name

Random_Name001 *Project Name should contain only alphanumeric characters*

Preset Selection

 HTML  Node.js  PHP  Django  Generic

Preset Details

- Lorem Ipsum dolor sit amet
- Lorem Ipsum dolor sit amet
- Lorem Ipsum dolor sit amet

Create

08

MINIMALISM



Provide information **relevant to user task
and diminish **visibility** on irrelevant ones**

08

SparkWorks HR Patient Monitoring Dashboard

e.g.

Latest traces

Show 10 entries Search:

DATE	PATIENT			
Dec, 11 2015 15:40:09	John Snow			
Dec, 22 2015 15:13:05	Jon Snow			
Feb, 08 2016 15:27:32	Yasmin Beyer			
Mar, 16 2016 10:42:57	Erik Voss			
Mar, 16 2016 11:53:57	Erik Voss			
Mar, 16 2016 23:37:55	Jon Snowington			

Patients

NAME	DATE OF BIRTH	EMAIL
John Snow	Mar, 01 1941	JohnSnow@icloud.com
Yasmin Beyer	Nov, 25 1941	YasminBeyer@icloud.com
Connor MacLeod	Apr, 01 1967	ConnorMacLeod@icloud.com
Edmund Blackadder	Jan, 14 1977	EdmundBlackadder@icloud.com
John Doe	May, 23 1978	JohnDoe@gmail.com
Cersei Lannister	Jul, 28 1988	CerseiLannister@icloud.com
Erik Voss	Jan, 01 2000	ErikVoss@icloud.com

Previous 1 Next

TRACE LOG

Search... PATIENT NAMES

▼ TRACE DATE	PATIENT NAME	SV EVENTS	V EVENTS	TOTAL EVENTS	OPTIONS	STATUS
Dec 15, 2016	Jon Snow	5	1	125		0% Reviewed
Dec 14, 2016	Jon Doe	0	1	132		100% Complete
Nov 27, 2016	Jane Doensvil	0	0	98		12% Reviewed
Nov 5, 2016	Jane Snowington	2	0	277		80% Reviewed

“It doesn’t matter how **many times** I have to click,
as long as **each click** is a mindless,
unambiguous choice”

- Steve Krug





09 ERROR RECOVERY

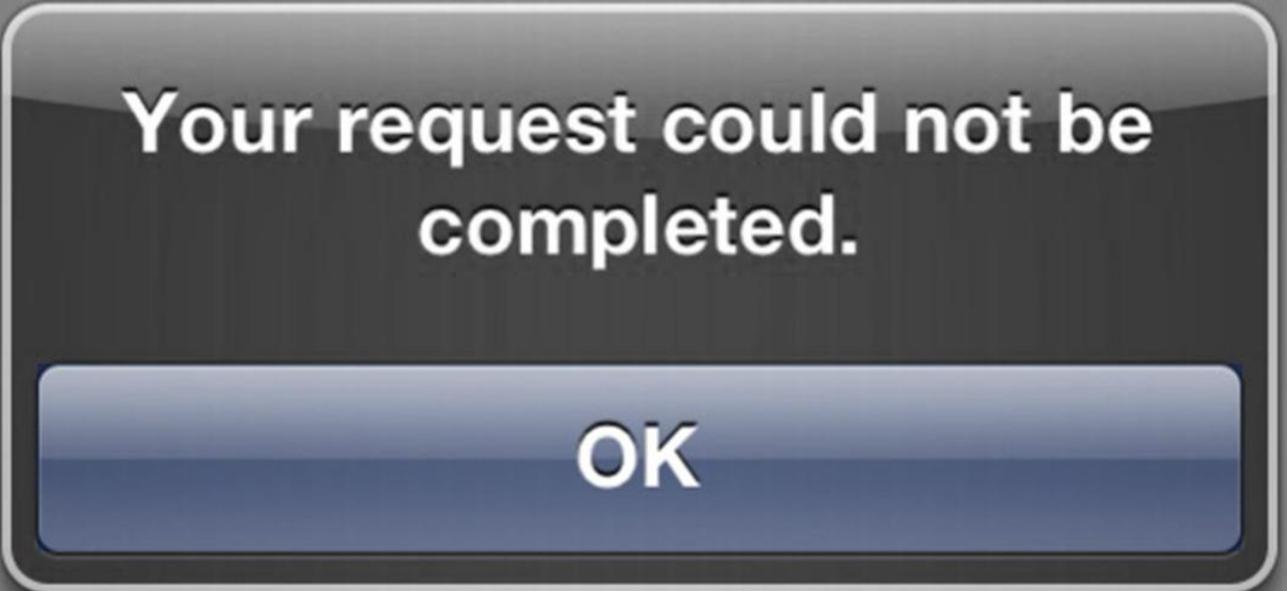
HUMAN

**Use plain language for errors
& provide possible solutions**

09

iTunes
Modal
Dialogue

e.g.

A screenshot of an iPhone's iTunes-style modal dialogue box. The box has rounded corners and a dark gray gradient background. In the center, the text "Your request could not be completed." is displayed in a large, white, sans-serif font. At the bottom of the box is a blue rectangular button with the word "OK" in white, centered horizontally.

Your request could not be completed.



10

HELP

Provide **assistance** and tips to users,
in order to carry them through their **tasks**

10

Mailchimp Password Creation

e.g.

Change password

Verify current password

New password [generate strong password](#)

.....

- One lowercase character
- One uppercase character
- One number
- One special character
- Eight characters minimum

Confirm new password

Update

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Steve Krug



DON'T MAKE ME THINK

Revisited

and Mobile

A Common Sense Approach to Web Usability

Usability of Mobile Websites

85 Design Guidelines for Improving Access to Web-Based Content and Services Through Mobile Devices

by Raluca Budiu and Jakob Nielsen

NN/g

Nielsen Norman Group

THE LEAN SERIES

Jeff Award
Winner

Jeff Gothelf with Josh Seiden

LEAN UX

Applying Lean Principles to
Improve User Experience

O'REILLY®

Eric Ries, Series Editor

READING MATERIAL

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