Collaborative Mobile Media

Bauhaus-Universität Weimar

04. Mobile Guidelines

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iOS -Android

Guidelines and Differences



Platforms

Native



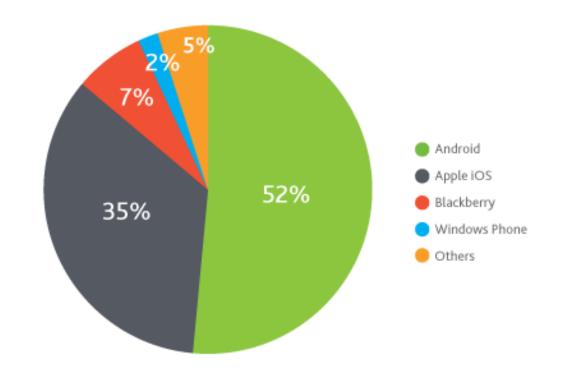
WebApp



iOS & Android

Top U.S. Smartphone Operating Systems by Market Share

Q3 2012, Nielsen Mobile Insights



Read as: During Q3 2012, 52% of smartphone owners had a handset that runs on the Android operating system

Source: Nielsen

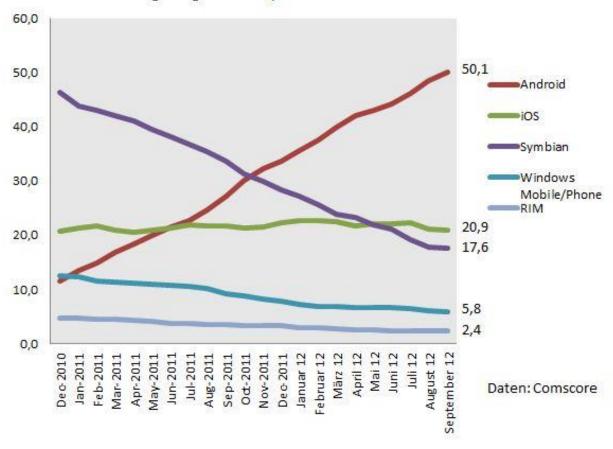


Source: http://www.nielsen.com/us/en/newswire/2012/nielsen-tops-of-2012-digital.html

iOS & Android

Smartphone-Betriebssysteme in Deutschland

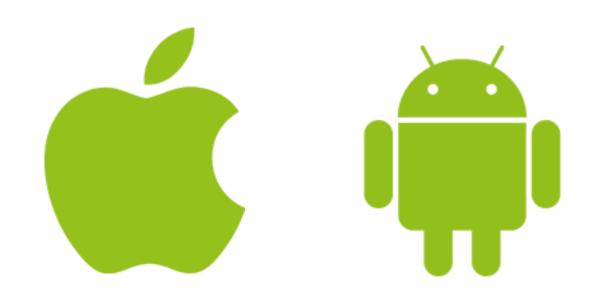
Anteile der bevorzugt eingesetzten Systeme in Prozent



Smartphone OS market in Germany (Schmidt, 2012)

iOS & Android

Two most popular mobile platforms

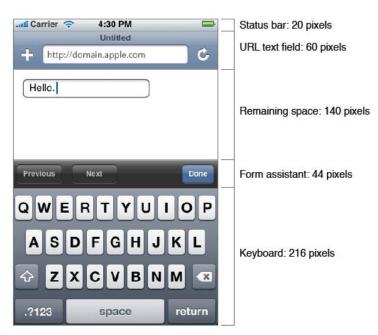


Official Design Guidelines: iOS

iOS Human Interface Guidelines

- http://developer.apple.com/library/ios/documentation/UserExperience /Conceptual/MobileHIG/MobileHIG.pdf
- http://developer.apple.com/library/ios/#DOCUMENTATION/UserExper ience/Conceptual/MobileHIG/Introduction/Introduction.html

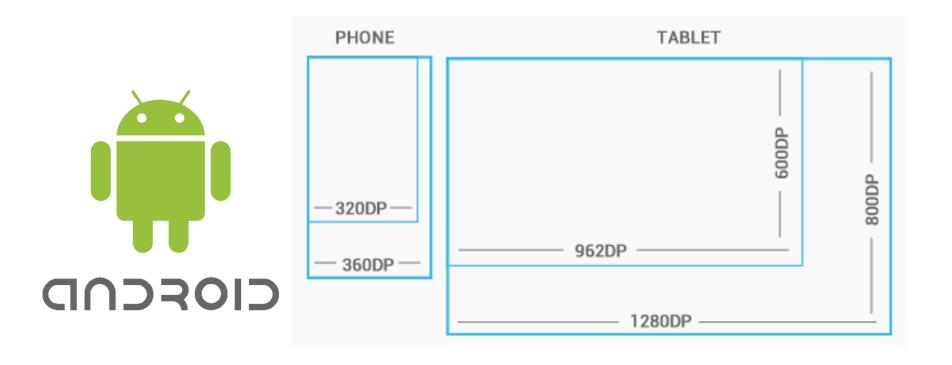




Official Design Guidelines: iOS

Design | Android Developers

http://developer.android.com/design/index.html

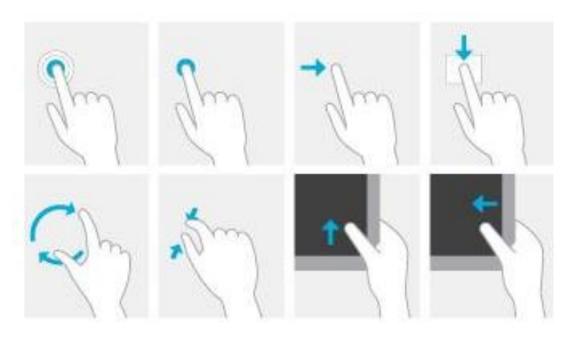


Official Design Guidelines: Windows

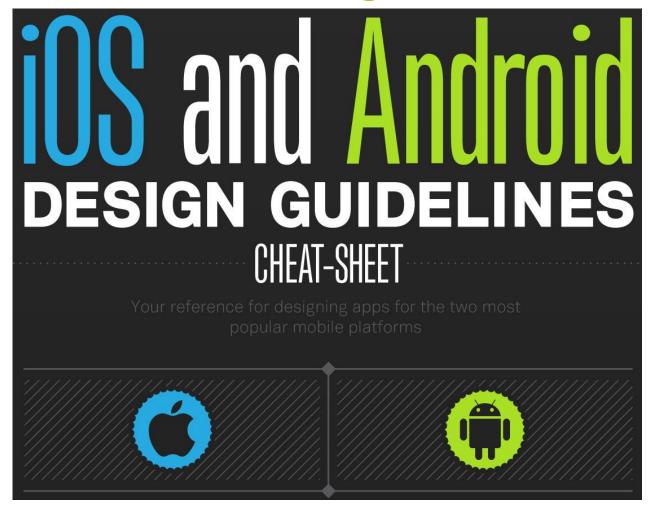
Windows Phone Dev Center

http://developer.windowsphone.com/en-us/design

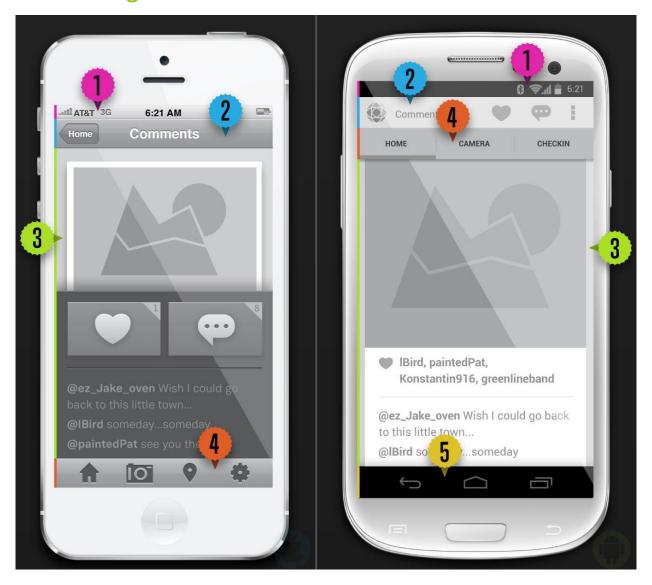




iOS & Android: Design Guidelines



Retrieved and Modified from: (McKibben, n.d.)

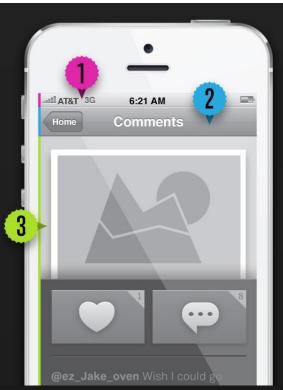








#1 STATUS BAR



#2 NAVIGATION BAR

Things to note



#2 MAIN ACTION BAR

Contains

Things to note



#3 CONTENT DISPLAY

Contains

Standard and custom content views such as map view page view, table view, web view, and collection view

Things to note

This is the most customizable area of the application. Typical screen views should remain as true as possible to the standard iOS screen designs in order to maximize user familiarity.



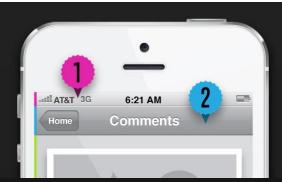
#3 CONTENT DISPLAY

Contains

Standard and custom content views such as map view page view, table view, web view, and collection view

Things to note

This is the most customizable area of the application. Typical screen views should remain as true as possible to the standard android screen designs in order to maximize user familiarity.



#4 TAB BAR / TOOLBAR

Contains

Tab style navigation or progress bar, activity indicator and/or other controls

Things to note

Tab bars are used as a main source of navigation and as such should be present on every screen (excluding some edge cases). Toolbars are only used when your application requires the user to edit the app's content view.





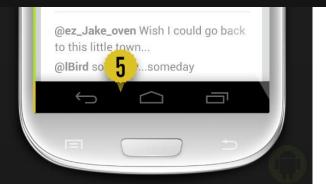
#4 ACTION BAR TABS

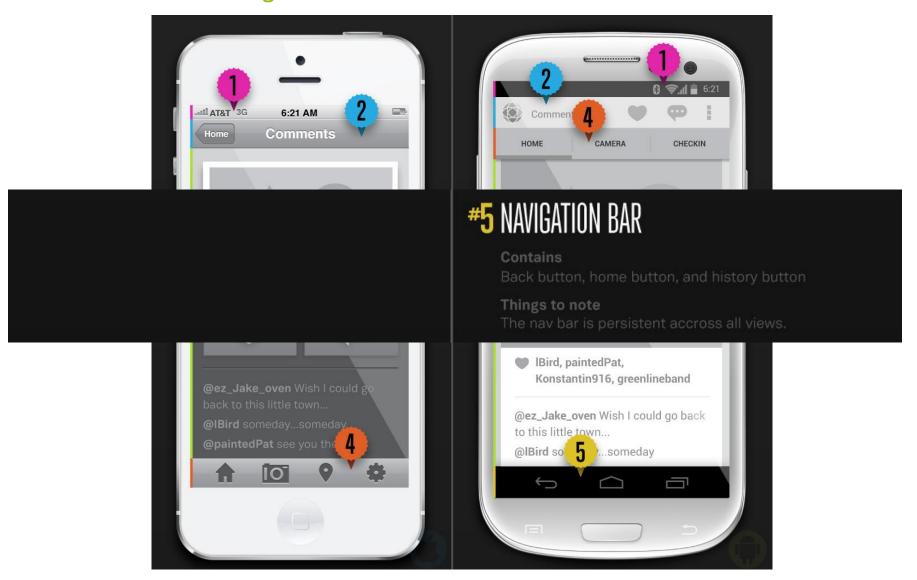
Contains

Tab style navigation

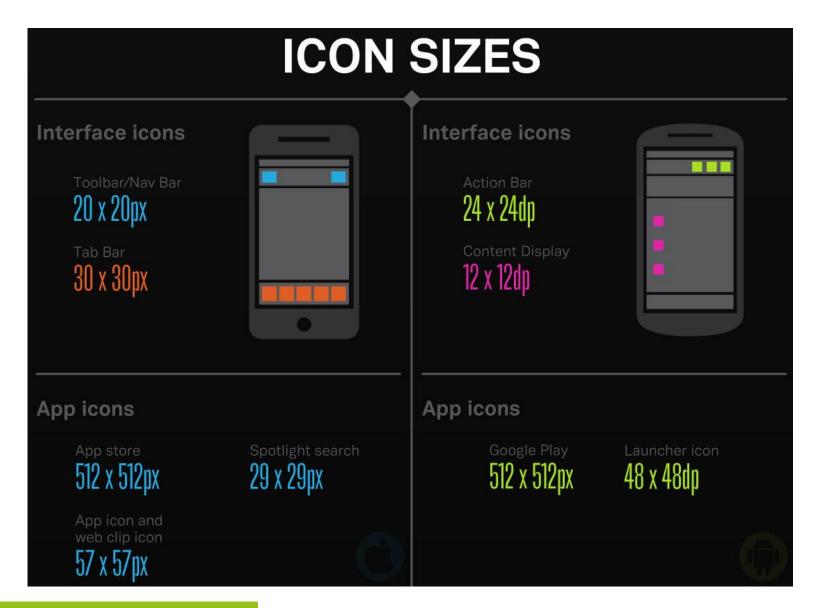
Things to note

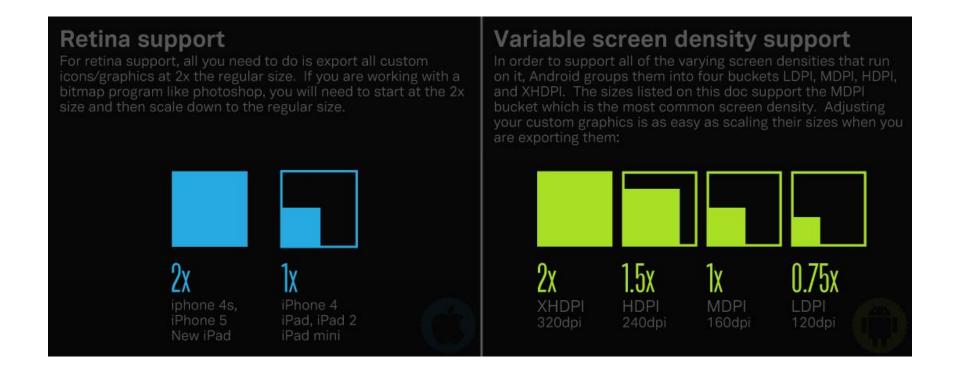
You can choose between fixed and scrollable tabs for your action bar. Fixed allows the user to see all options at a glance while scrollable can support more views.

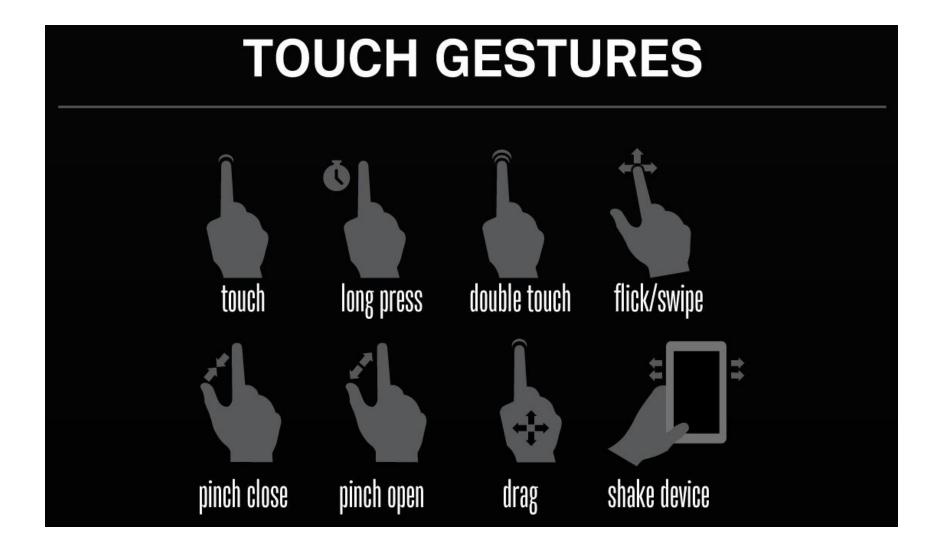




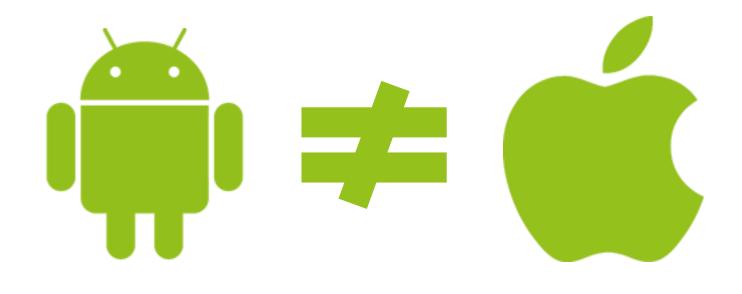
SUPPORTING MULTIPLE SCREENS Screen sizes Screen sizes 320 x 426dp 320 x 480pt 320 x 568pt 320 x 470dp iPad mini iPad2 768 x 1024pt 480 x 640dp 720 x 960dp 768 x 1024pt







Android & iOS: Differences



Android & iOS: Differences

Examples using

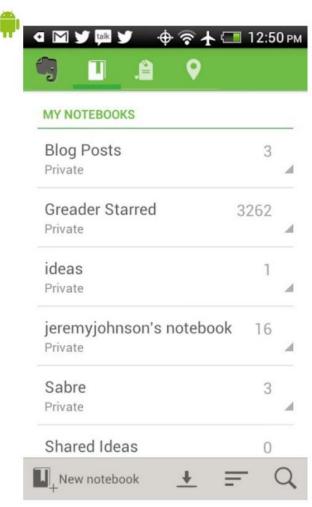
- HTC One V
 - Android 4.0.3 with HTC Sense 4.0
 - 480 × 800 pixels at 252 ppi
 - 3.7 in (94 mm)

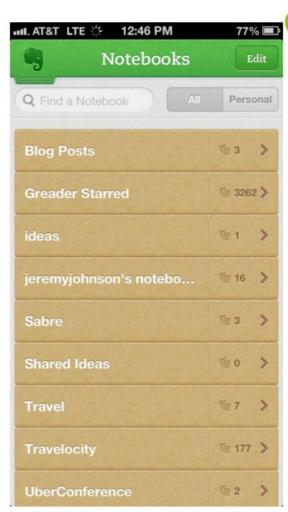
VS.

- iPhone 5
 - iOS 6.1.4
 - 640 x 1136 pixels at 326 ppi
 - 4 in (100 mm)

Retrieved and Modified from: (Johnson, 2013)

Evernote

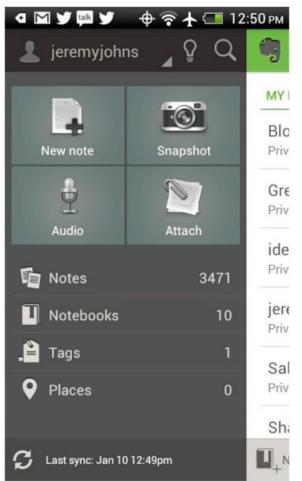


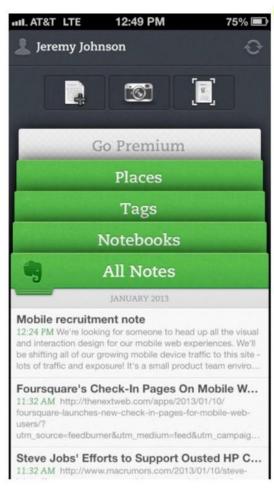


- » Android app cleaner, less hidden UI
- » iOS using skeuomorphic design
- » Android app more branded to Evernote

Evernote







- » Android uses the more standard "left side menu"
- » Android is using the "notch menu"

NPR







Paul Salopek is already a welltraveled journalist a two-time Pulitzer Prize winner who has spent most of the

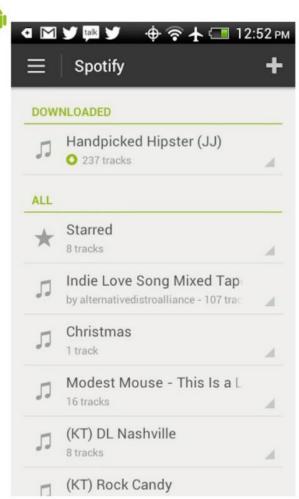
past two decades roaming across Africa, Asia, the Balkans and Latin America.

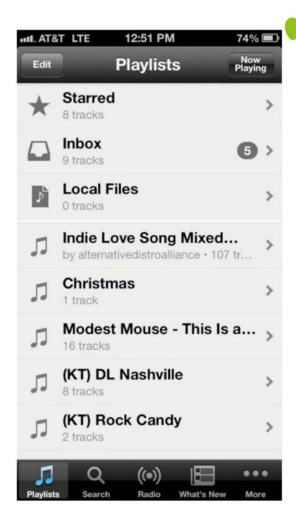
This, apparently, has not sated his wanderlust. So now he's in a dusty village in Ethiopia's Rift Valley, ready to launch a seven-year, 21,000-mile journey on foot that will take him from Africa, across the Middle East and through Asia, over to Alaska and down the Western edge of the



- » Android using notch menu
- » I like the "now playing" placement on Android
- » Android has more branding

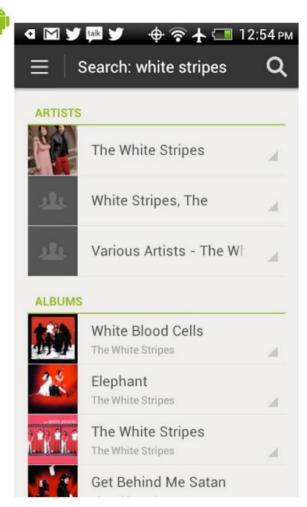
Spotify





- » Android has left slide menu
- » iOS is using more standard iOS components

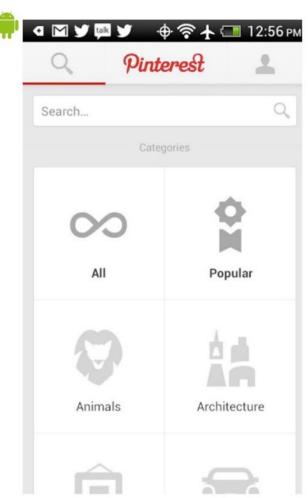
Spotify

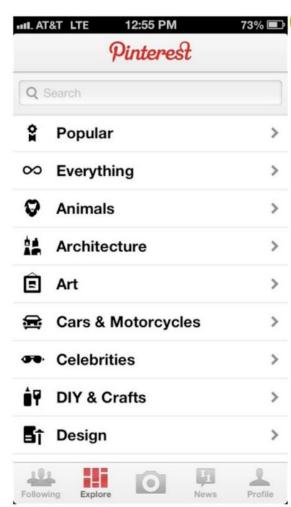




- » iOS using more standard iOS components
- » I like the mixed search results from Android
- » Android has more branding

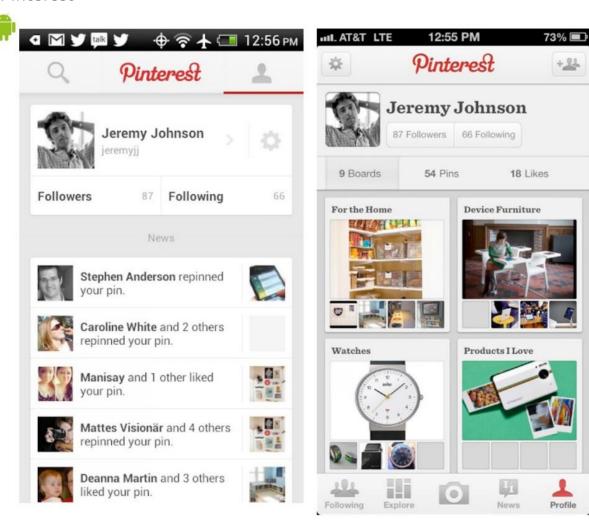
Pinterest





- » iOS uses more standard navigation elements
- » Android screen is visually nicer

Pinterest



- » iOS profile more visual has news feed in a different area
- » Android style, again blocky
- » Search more noticeable on Android
- » Android using the thin underline to show selected nav item

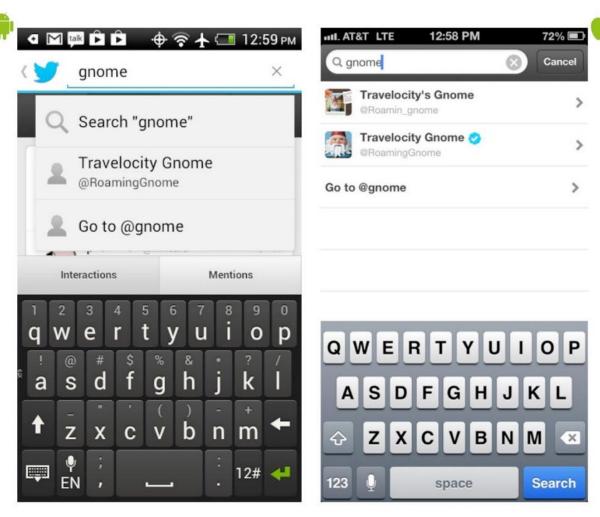
Twitter





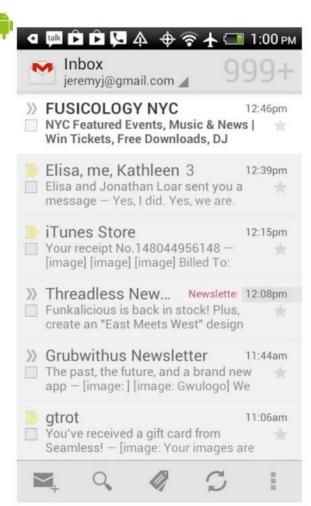
- » Twitter took the "move the iOS bar to the top" shortcut for Android
- » More branding on Android
- » Seeing a lot of "pull to search" on iOS vs. having a search UI element always visable on Android

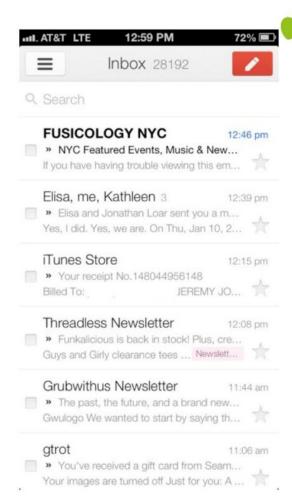
Twitter



- » Android uses logo with ">" instead of iOS's cancel button
- » iOS search is more visual

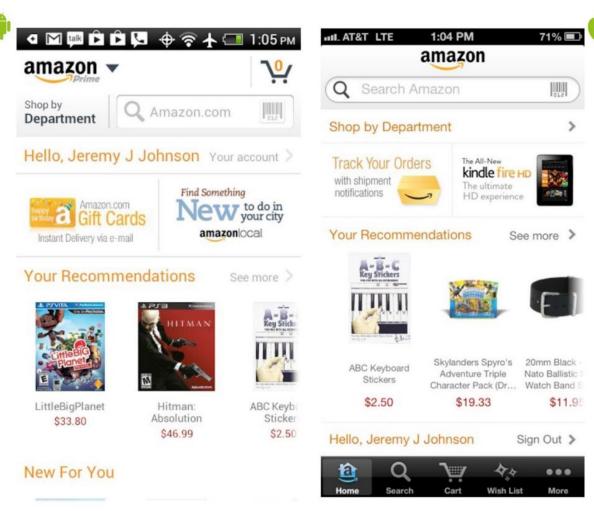
Gmail





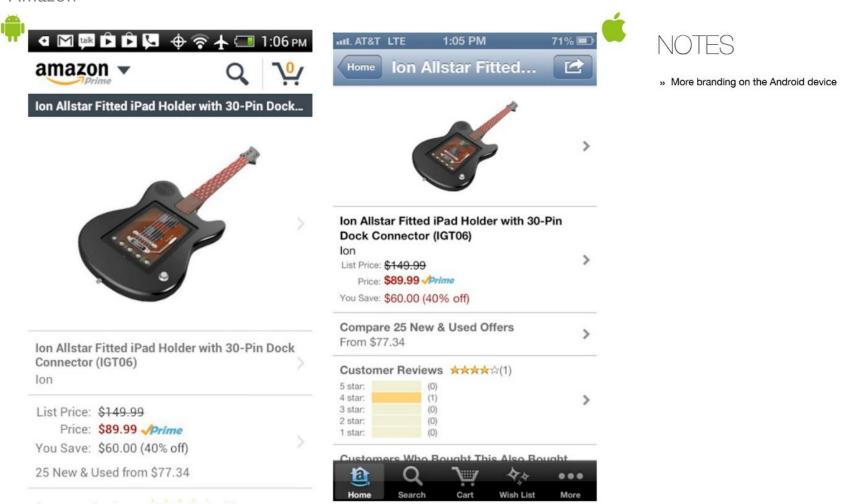
- » Very different layouts
- » On Android Google kept the Android specific pattern to "notch" the username
- » Almost reverse Android has a row of icons at the bottom where the iOS does not. You could argue that the functionality is so different from standard iOS this bar would confuse on an iPhone.

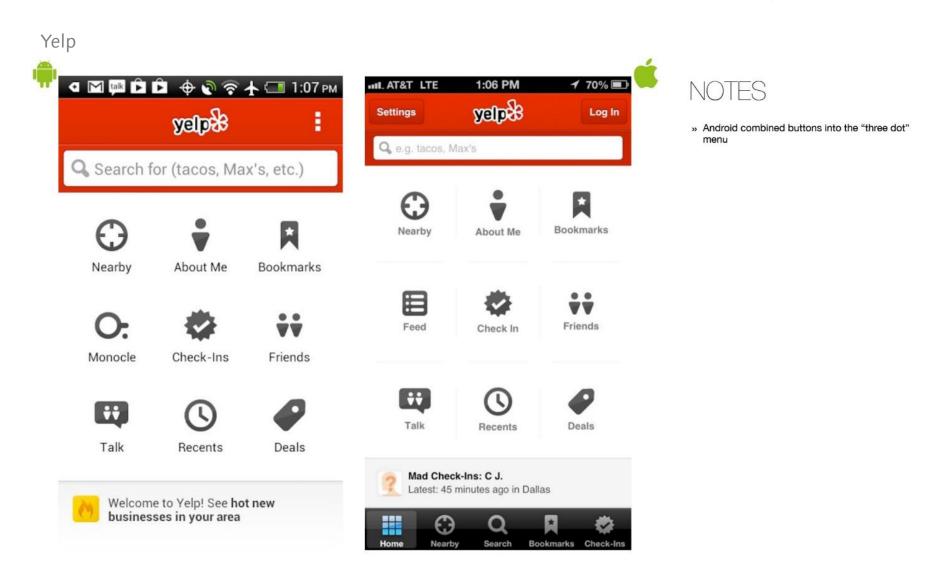
Amazon



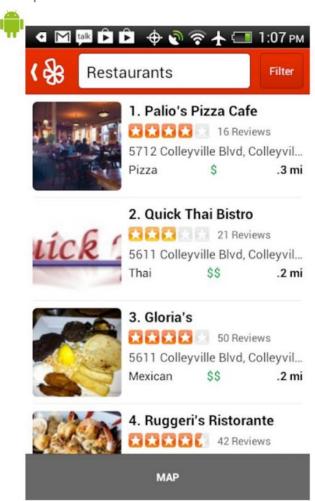
» Cart and logo / nav flyout on Android is closer to the Amazon website (brand patterns vs. OS patterns)

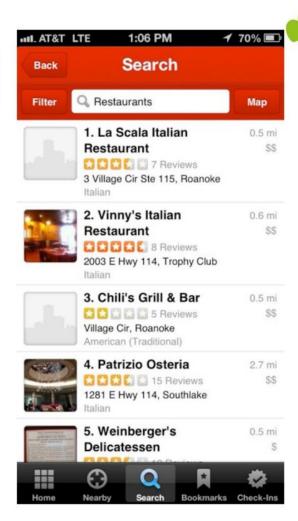
Amazon





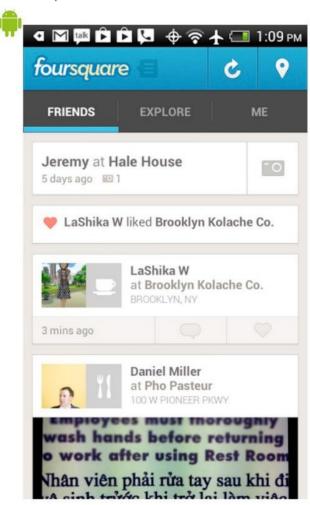
Yelp

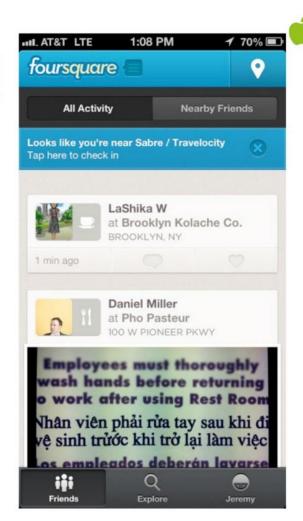




- » More branding on the Android
- » Obviously trying to keep the apps very close to the same design
- » Using the Android ">" logo as a back button

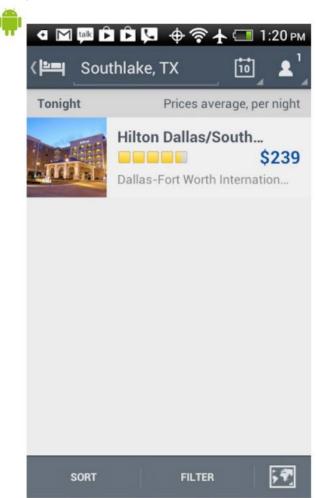
foursquare

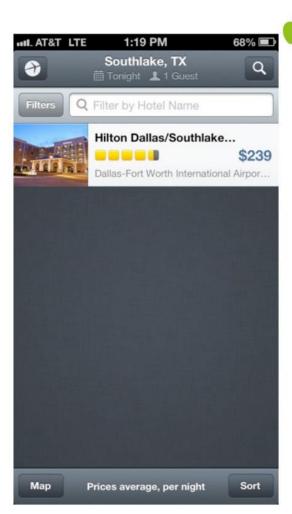




- » Very branded app on both OSes
- » Android using the thin underline to show selected nav item

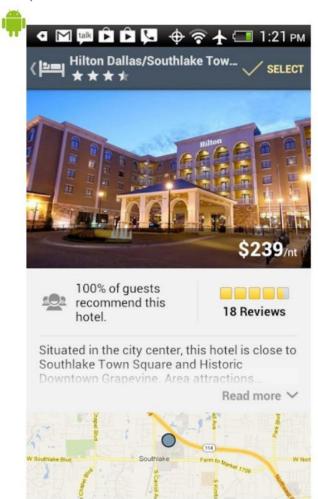
Expedia

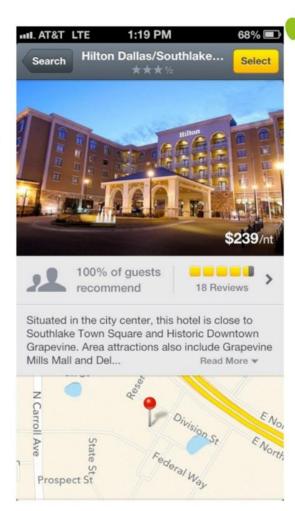




» Android has the standard back, search area, and notches thats seen across many modern Android apps

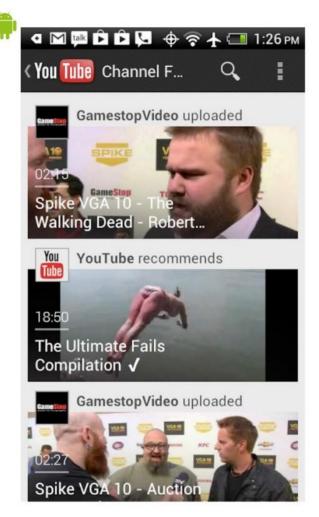
Expedia

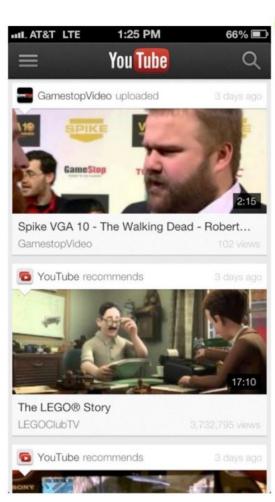




- » Very similar app across OSes
- » Android design tries to stay away from buttons (Following the "Buttons are a Hack" philosophy?)

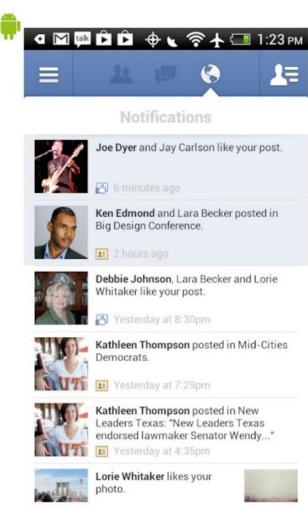
YouTube

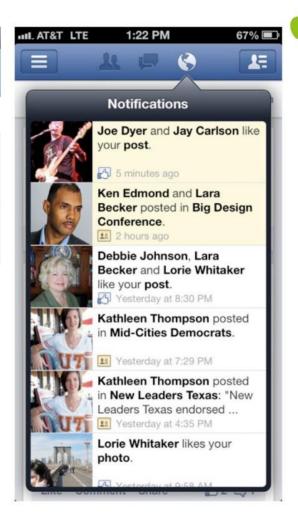




- » Similar branding, but slightly different visual placement of elements
- » This case, the iOS gets the left nav, and the Android does not

Facebook

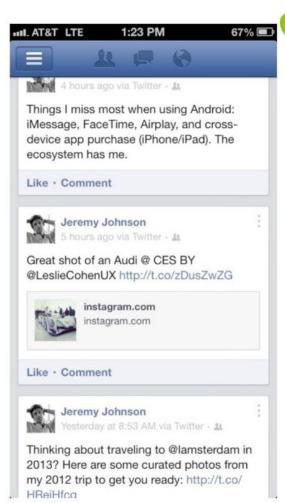




- » A more blocky design on the Android app
- » Apps very similar

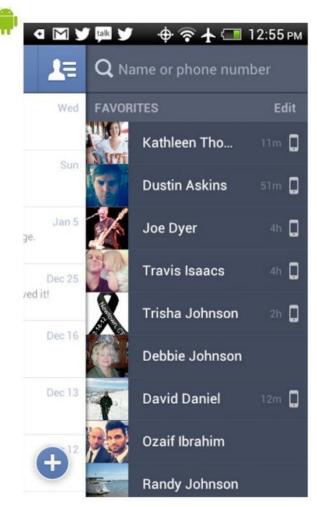
Facebook





- » Android has larger hit areas
- » Facebook moved the "three dot" menu to iOS
- » Apps are very similar

Facebook



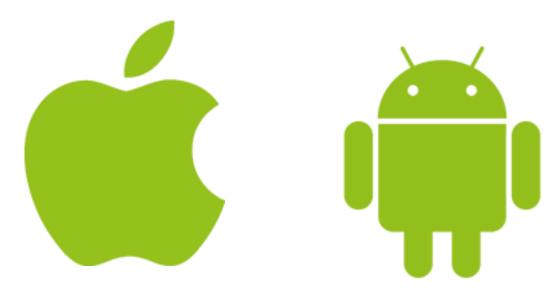


- » Facebook tends to try to copy pixel for pixel when they can.
- » Android version has a blocky design which is the current design trend (think Windows 8).

iOS & Android

Which one is better?

It is just a matter of taste

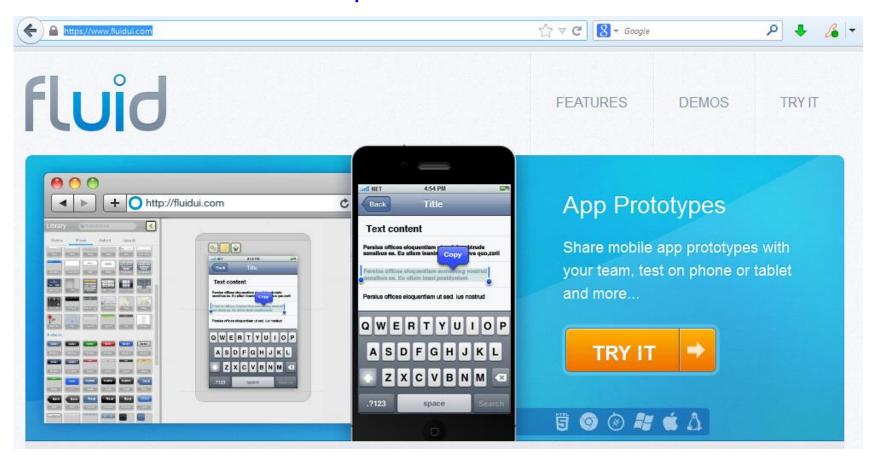


How to do



- Online Tools
- Photoshop Templates
- Vector Templates

Online Tool: fluid https://www.fluidui.com/



Desktop Tool: pencil http://pencil.evolus.vn/



iOS GUI Template

- iPhone GUI PSD http://www.teehanlax.com/tools/iphone/
- Apple iPhone 5 Vectorized Mockup http://pixelb.in/apple-iphone-5-vectorized-mockup-410/

and

http://bit.ly/11YYbHY

Android GUI Template

- Download | Android Developers http://developer.android.com/design/downloads/index.html
- Font: Roboto http://www.fontsquirrel.com/fonts/roboto
- Android UI Design Kit PSD 4.2 http://www.mediafire.com/download/bw96xx77k5az549/Android+UI+Design+Kit+PSD+4.2.zip

and

http://bit.ly/12NjzN6

Overview

Tips and Guidelines



Overview

General Tips



UI Design Guidelines for Handheld Devices

(Stone & Open University, 2005, p. 384) (adapted from Weiss, 2002, pp. 66-70)

"Select" versus "Type"

Text entry on a small device can be difficult. Where possible, and where it is appropriate to the application, the user should be offered a selection option rather than be made to enter text. Finding the best solution will require both thought and user testing.

UI Design Guidelines for Handheld Devices

(Stone & Open University, 2005, p. 384) (adapted from Weiss, 2002, pp. 66-70)

Be consistent

Ensure that the same terminology is used within an application and that the same terminology is used between handheld applications. In the absence of guidelines, try to borrow ideas from applications that have been well designed and have a high degree of usability.

UI Design Guidelines for Handheld Devices

(Stone & Open University, 2005, p. 384) (adapted from Weiss, 2002, pp. 66-70)

Consistency between platforms

While the same terminology can be used between handheld applications, you will need to think carefully when adapting an application from a desktop to a handheld device. It is not necessarily the case that terminology that works for a desktop will work for the smaller screened handheld device.

UI Design Guidelines for Handheld Devices

(Stone & Open University, 2005, p. 384) (adapted from Weiss, 2002, pp. 66-70)

Design stability

In the event of, say, a connectivity failure, the system should allow the user to pick up from where he or she left off when the connection is restored. For example, if the user is completing some sort of form and a wireless connection goes down, the data in the fields from previously should not be lost and have to be reentered.

UI Design Guidelines for Handheld Devices

(Stone & Open University, 2005, p. 384) (adapted from Weiss, 2002, pp. 66-70)

Provide feedback

The system should support the user with feedback regarding what the application is doing. Feedback in relation to, say, the use of an application or navigation within it could be provided via an assigned information key.

UI Design Guidelines for Handheld Devices

(Stone & Open University, 2005, p. 384) (adapted from Weiss, 2002, pp. 66-70)

Forgiveness

The UI should be tolerant of user errors and provide an Undo function by, where feasible, a specially designated Back key.

UI Design Guidelines for Handheld Devices

(Stone & Open University, 2005, p. 384) (adapted from Weiss, 2002, pp. 66-70)

Use metaphors

Real-world metaphors in line with the size of the display should be used. For example, while a desktop metaphor would be inappropriate for a cell phone, the use of an address book for storing telephone numbers would be okay.

UI Design Guidelines for Handheld Devices

(Stone & Open University, 2005, p. 385) (adapted from Weiss, 2002, pp. 66-70)

 Clickable graphics should look clickable If a graphic is clickable, then it should have defined borders and the graphic should have high contrast with the background color. Conversely, graphics that are static should not appear to be clickable.

UI Design Guidelines for Handheld Devices

(Stone & Open University, 2005, p. 385) (adapted from Weiss, 2002, pp. 66-70)

Use icons to clarify concepts

Icons should be meaningful and representative of the concepts they are meant to convey.

Most Important:



Be **CREATIVE** and LOGICAL

and try something **NEW!**

Image retrieved and modified from http://estudioimg.files.wordpress.com/2012/05/two-sides-of-brain.png

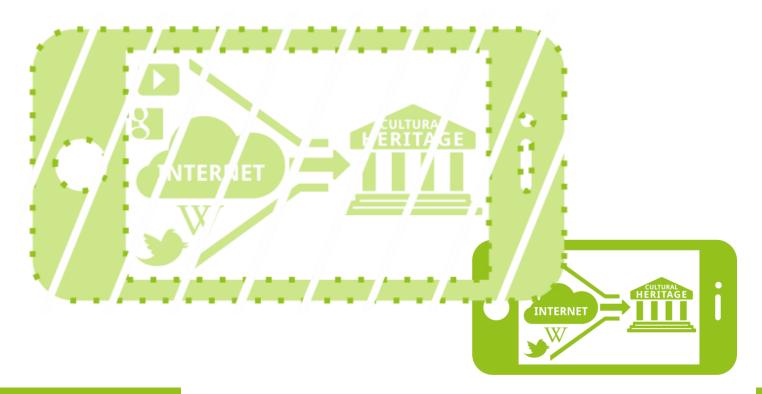
2nd Presentation

What should be done



Seminary presentation (draft)

- 10 minutes (+ discussion)



Seminary presentation (draft)



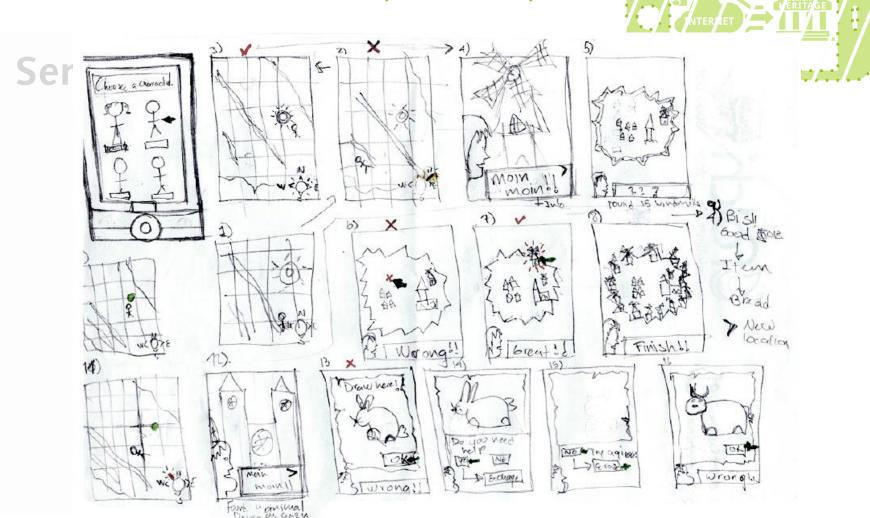
For this moment, it is just needed the app idea with navigation and content structure;

The main point is to present your idea, followed by discussion before doing the final version.

Seminary presentation (draft)



For the first/draft version, should be explored the app idea and structure, in order to receive the feedback and possible adjustments suggestions for the final version.



Seminary presentation (draft)



Slides in a PDF format should be delivered electronically one day BEFORE the presentation: at 29th May – 23:59h.

All the presentations will be available in ONE computer, to make the presentation changing faster.

Seminary presentation (draft)



Questions you should think about:

- What is the main purpose of your app
- "Where is the beef?" = What is new about it?
- Why people would use it?
- How the users will collaborate with it?
- Is it related to culture (and preservation maybe) topic?

2nd Presentations



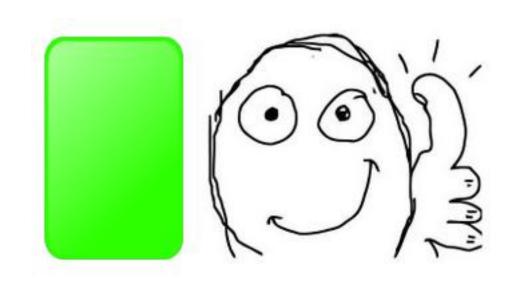
Each student will have 10 minutes

1st and 2nd Presentations

At the 9th Minute, it will be shown a Green card.

Here the time is fine

– it is just a reminder
that there is still one
minute to go.

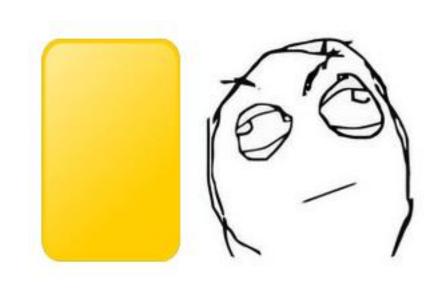


1st and 2nd Presentations

At the 10th Minute, it will be shown a Yellow card.

Here the time is over

– and the student
should hurry to finish
the presentation.



1st and 2nd Presentations

At the 11th Minute, it will be shown a Red card.

Here the presentation will be interrupted.



References

References for further readings



References

- Apple iPhone 5 Loving it is easy. That's why so many people do. (n.d.). Retrieved May 22, 2013, from http://www.apple.com/iphone/
- Design | Android Developers. (n.d.). Retrieved May 22, 2013, from http://developer.android.com/design/index.html
- HTC One V Overview HTC Smartphones. (n.d.). Retrieved May 22, 2013, from http://www.htc.com/www/smartphones/htc-one-v/
- iOS Human Interface Guidelines: Introduction. (n.d.). Retrieved May 22, 2013, from http://developer.apple.com/library/ios/#DOCUMENTATION/UserExperienc e/Conceptual/MobileHIG/Introduction/Introduction.html
- Johnson, J. (2013, January 11). Android vs iPhone Differences in UI Patterns and Design. Retrieved May 21, 2013, from http://www.slideshare.net/jeremy/android-vs-iphone-differences-in-uipatterns-and-design

References

- McKibben, J. (n.d.). iOS and Android Design Guidelines Cheat Sheet Kinvey Backend as a Service Blog. Retrieved May 22, 2013, from http://www.kinvey.com/blog/2765/ios-and-android-design-guidelinescheat-sheet
- Newswire | Nielsen Tops of 2012: Digital | Nielsen. (n.d.). Retrieved May 22, 2013, from http://www.nielsen.com/us/en/newswire/2012/nielsen- tops-of-2012-digital.html
- Schmidt, H. (2012, November). Google-System Android knackt 50-Prozent-Marke in Deutschland, Focus, Retrieved from http://www.focus.de/digital/internet/netzoekonomie-blog/smartphonesgoogle-system-android-knackt-50-prozent-marke-indeutschland aid 852168.html
- Stone, D. L., & Open University. (2005). *User interface design and* evaluation. Amsterdam; Boston, Mass.: Elsevier: Morgan Kaufmann.
- Windows Phone Dev Center. (n.d.). Retrieved May 22, 2013, from http://developer.windowsphone.com/en-us/design/

Thank You!



Collaborative Mobile Media

Bauhaus-Universität Weimar

04. Mobile Guidelines



http://www.uni-weimar.de/medien/wiki/IFD:Collaborative_Mobile_Media_SS13