KUAS
KYOTO UNIVERSITY of ADVANCED SCIENCE
京都発世界人財

京都先端科学大学

Introduction to Design (Track 3)

11.1 Location Sensor & Activity Starter

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Important!!

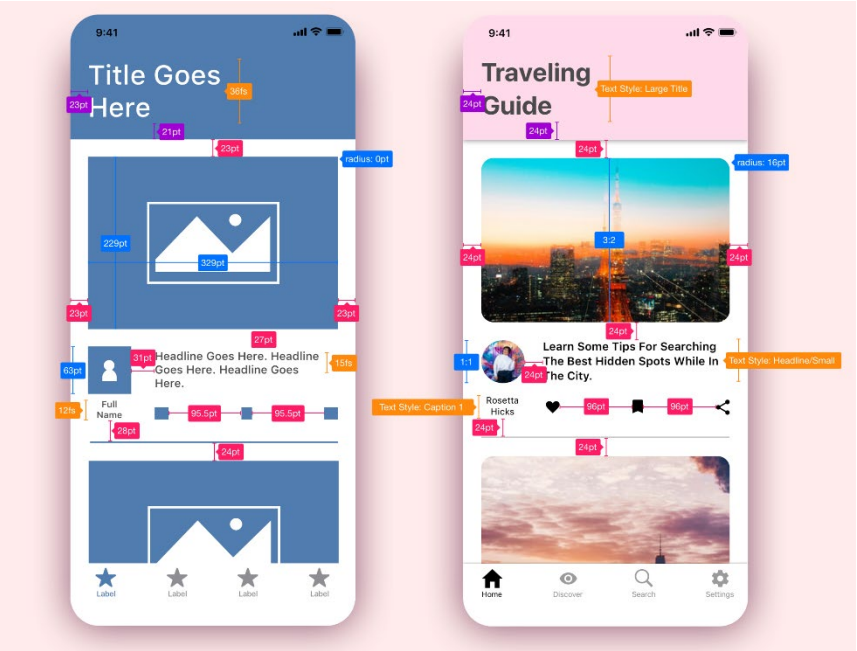
Please disinfectize your hands before entering the classroom!
入室前にアルコールを使用して手指消毒を行ってください。

Please disinfectize your chair and table!
①ペーパーにアルコールを噴霧してください。
②アルコールが噴霧されたペーパーで、使用箇所（テーブル、椅子など）を拭き取ってください。
③使用済のペーパーは廊下のごみ箱に捨ててください。

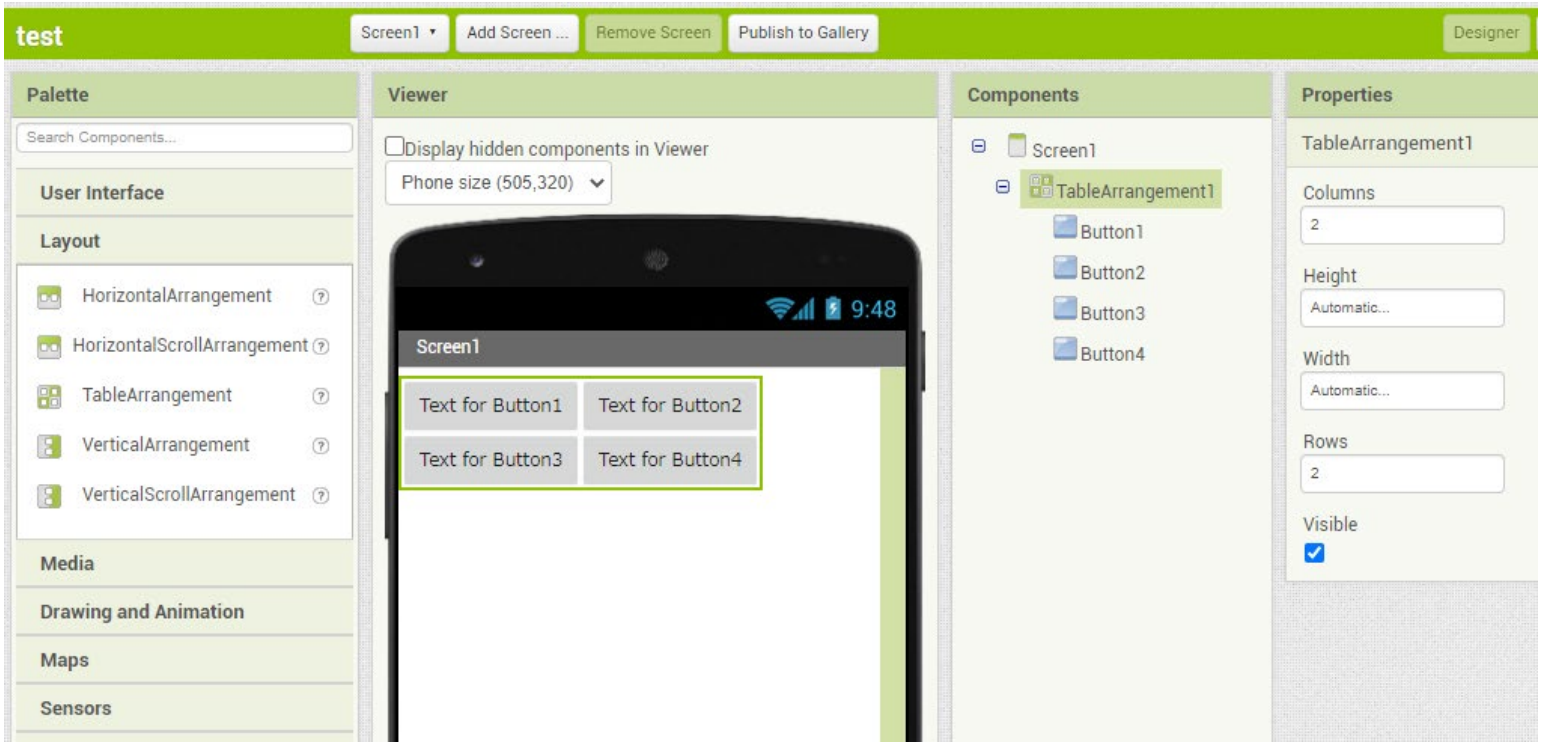
1. Recap of Week 10

Layout

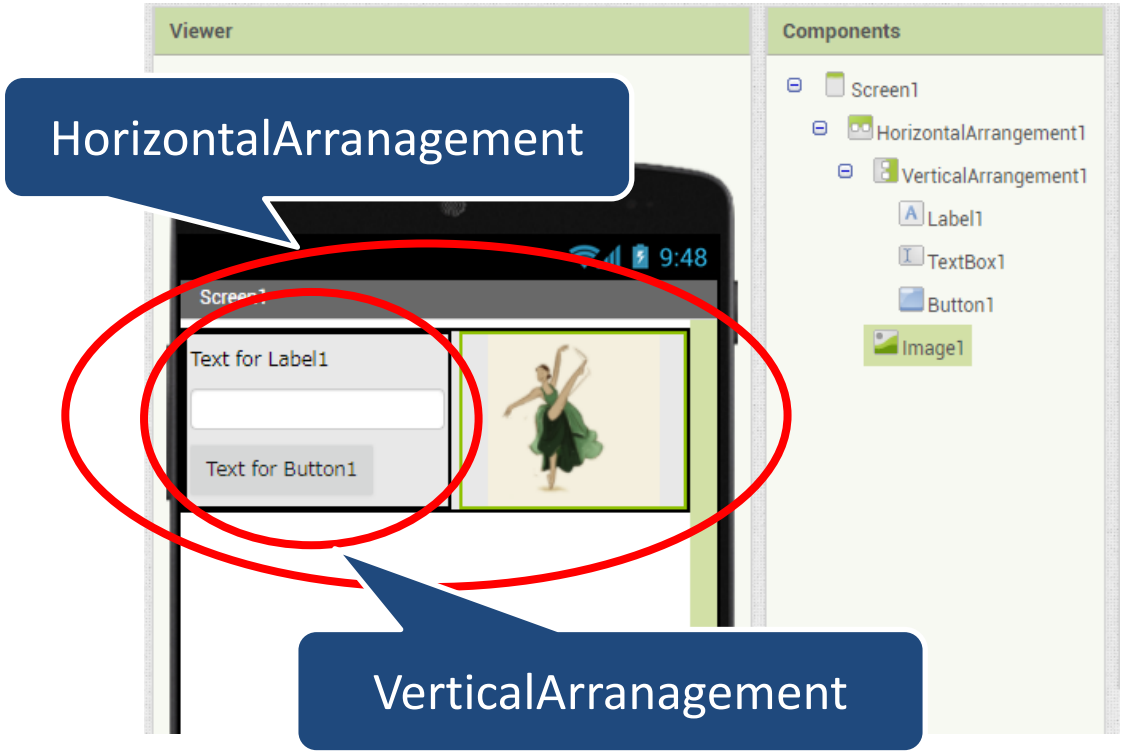
- Defines where and how to position the UI components on a screen.
- Structures the hierarchy of UI components.



Five Layout Components



Nested Layout



Colors have emotional effect

Red = excitement, danger

Orange = energy, confidence

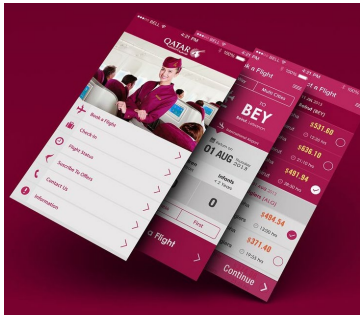
Purple = romance, creativity

Blue = strength, future

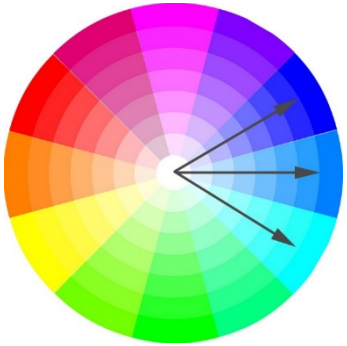
Green = health, peace

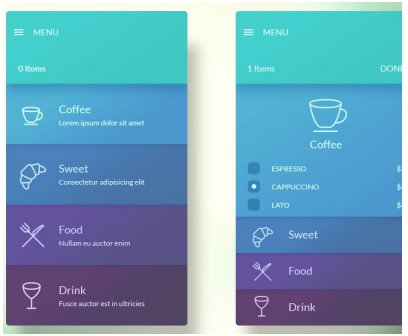
…

The Art of Color Selection

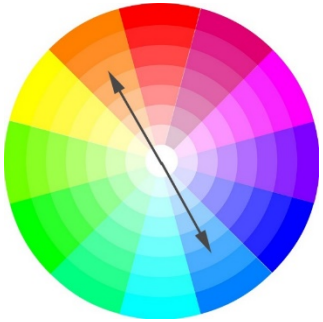


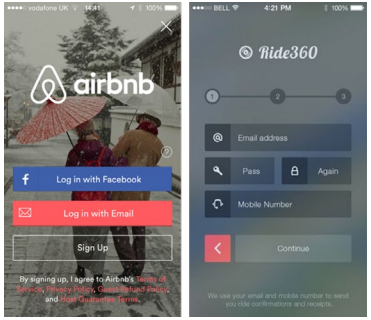
Monochromatic



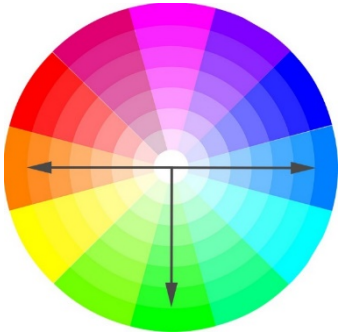


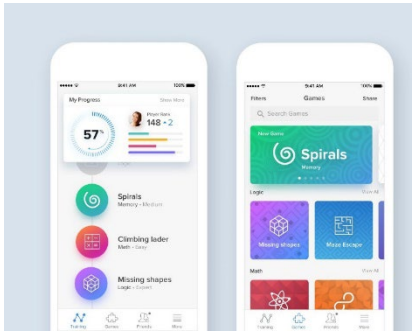
Analogous





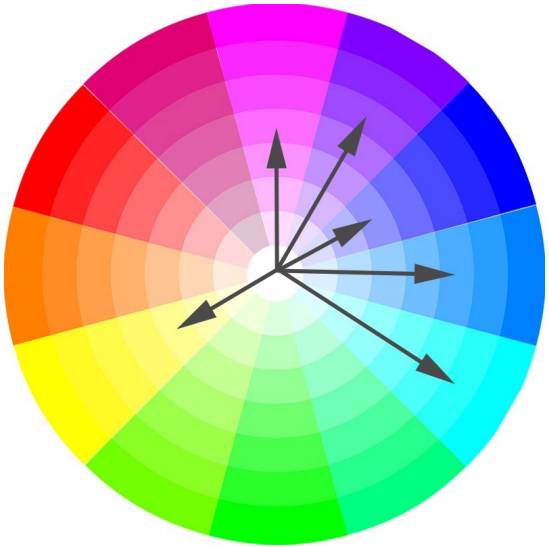
Complementary

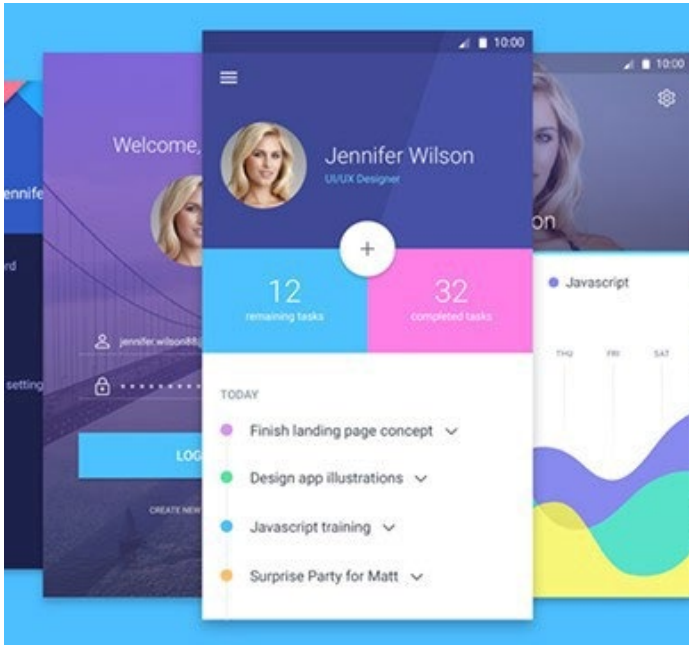




Triadic

Compound



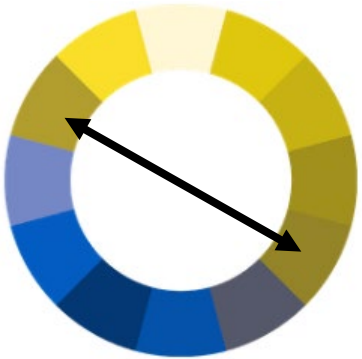

Welcome,
Jennifer Wilson
UI/UX Designer
12
remaining tasks
32
completed tasks
TODAY
Finish landing page concept
Design app illustrations
Javascript training
Surprise Party for Matt
Javascript

Designing for Color Blindness

Red and **green** colors are a common problematic combination

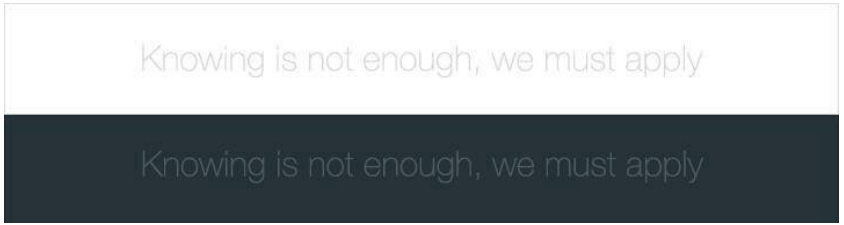
→ Use **red** and **blue** instead!

Normal Vision

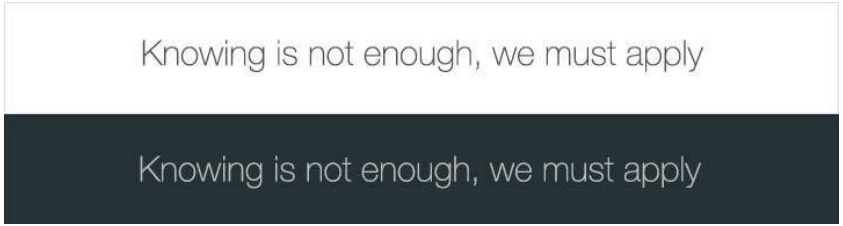


Vision of red-green color blindness

Low contrast, hard to read



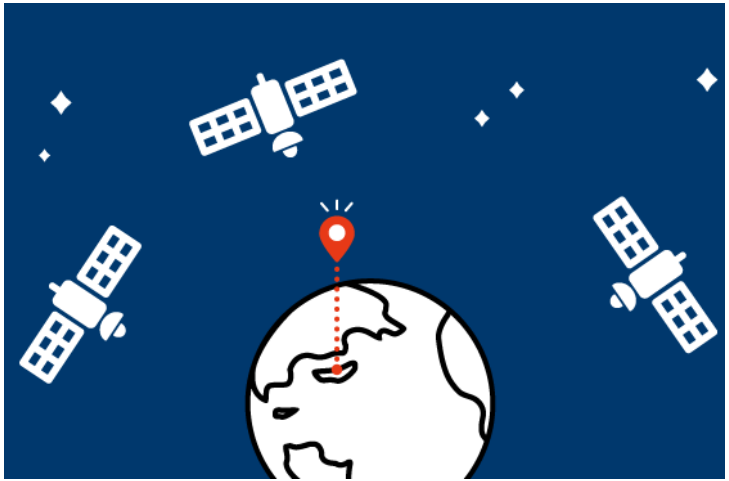
High contrast, easy to read



Location Sensor

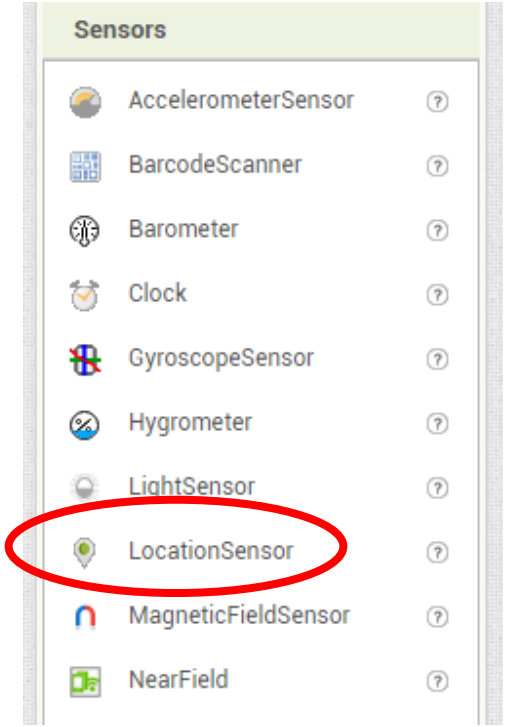
Location Sensor

- The **LocationSensor** is used to get location information. Location means the device's present latitude/longitude or street address.
- It can communicate with the global positioning satellite receiver (GPS) in your phone, or work with network/wifi location services.



Location Sensor

- Some phones are more sensitive to whether the device is in a building, under trees or is travelling in the mountains. Weak signals will reduce accuracy.
- A GPS receiver's accuracy can vary easily by plus or minus 50 meters or so over a very short period of time.
- It takes 20s to update the location of your phone.



GPS

You may refer to the Wikipedia page of GPS for more technical details

https://en.wikipedia.org/wiki/Global_Positioning_System

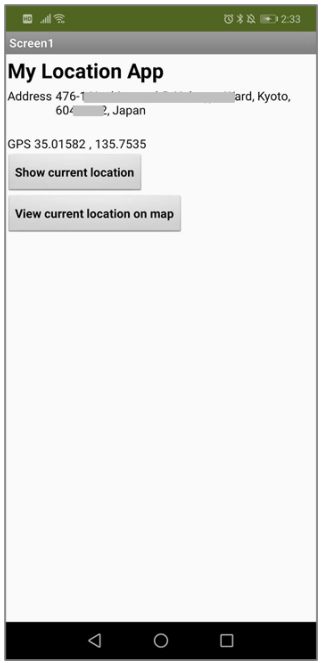
ActivityStarter

http://appinventor2.wiki.fc2.com/wiki/ActivityStarter%E4%BD%BF%E7%94%A8%E4%BE%8B

Activity Starter

The activity starter component let you start another app inside your own app.

Your app



ActivityStarter

Other apps on the phone

Start a browser to open a web page

Use these ActivityStarter with the VIEW action and a Data Uri to open the phone's browser to a designated web page, for example,

Action: **android.intent.action.VIEW**
DataUri: **http://kuas.ac.jp**

Launch a web search

To launch a Web search, use an ActivityStarter with the WEB_SEARCH action.

Action: **android.intent.action.WEB_SEARCH**

Show a map for a location

You can use the VIEW action to show a map of the area:

Action: **android.intent.action.VIEW**
DataUri: **geo: latitude, longitude**

For more information about the geoURI format, please refer to https://qiita.com/j_catfish/items/819046a03c7619504c58

Play a YouTube video

You'll need to know the URI of the YouTube video. Then set the Activity Starter action to VIEW, and set the Data URI to *vnd.youtube* followed by the YouTube URI of the video to be played, for example

Action: **android.intent.action.VIEW**
DataUri: **vnd.youtube:nAPk9ycCbfc**

Any questions?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