

Upon completion of this module, a student will be able to

- understand the main tenets of Material Design
- build layouts with proper spacing
- use color to improve app design
- translate wireframes into Android designs



Project

- Task
 - Take a (very) rough wireframe drawing and other provided assets to build the UI for a simple news reader app.
- Repo
 - https://github.com/LambdaSchool/and-design-assignment-newsreader
- Challenge
 - o Continue working to polish your app. Add activities that you think would be good additions.

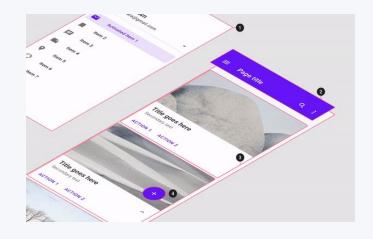




A Student Can understand the main tenets of Material Design

Material Design

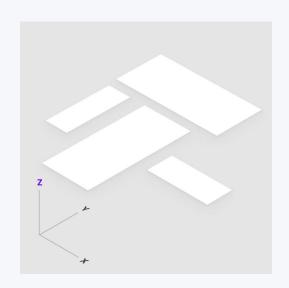
- Views made of digital paper
 - Mimics behavior of physical paper
- Content is ink on that paper
- Papers are stacked on top of eachother
 - Drop shadows show elevation





Materials (Paper)

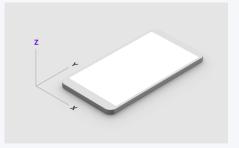
- Materials can vary in height and width, but the thickness must be uniform
- They are solid and can't pass through each other
- They are digital and can change size and shape





Depth (Elevation)

- The virtual UI space is between the back and front of the device
- Digital papers are staged inside of this zone
- Expressed with Shadows
- Can be expressed with surface fill colors

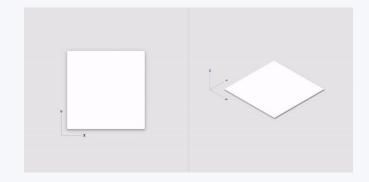






Content (Ink)

- Behavior can be independent of or dependent on the material
 - Can move around on the material
- Does not add any thickness

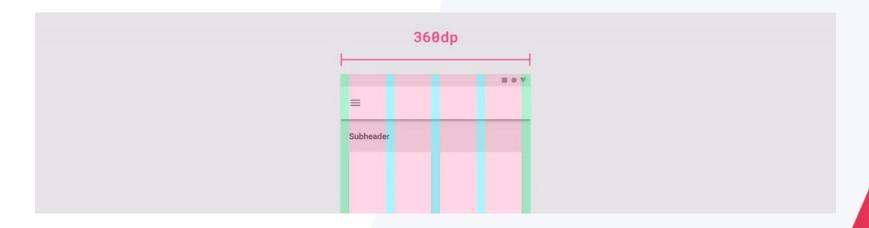






Breakpoints

• Screen size categories





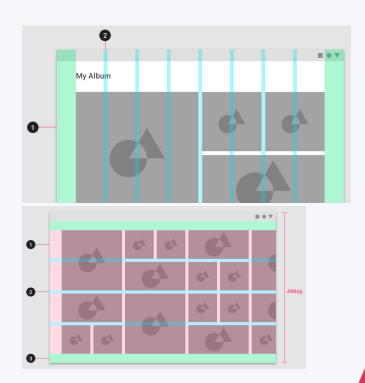
Layout

- Structure
 - Most content on 8dp lines
 - Smaller things on 4dp lines
- Columns
 - Separated by percent rather than fixed values
- Gutters
 - Space between content/columns
- Margins
 - Space between content and edges
- Keyline
 - o Non-column alignment



Columns

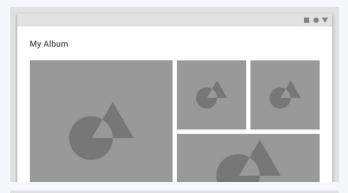
- Content can span multiple columns
- Generally begin on one edge and end on another
- Can be vertical or horizontal

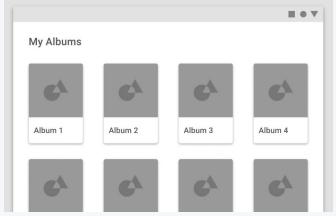




Gutters

- Can be different size for different layouts
- Spacing communicates relationships
 - Less space = CloserRelationship
 - More space = More Individuality
- Don't leave too much space, gutter less than column

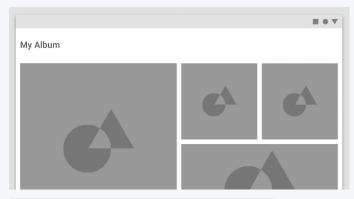






Margins

- Gives space from screen edge
- Can be different size than gutters
- For text, target 40-60 characters per line
- For other content
 - Greater than or equal to the gutter size
 - Based on content and columns

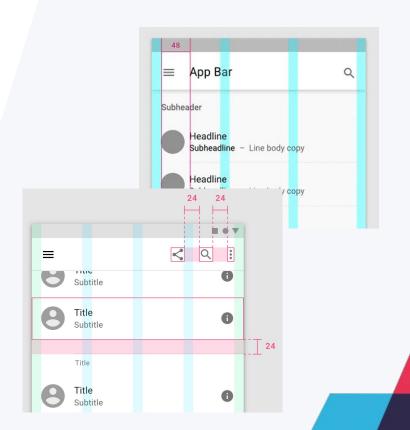






Spacing

- Keylines
 - Elements aligned outside of grid
 - Add Consistency
- Padding
 - Space between elements
 - Alternative to Keyline spacing

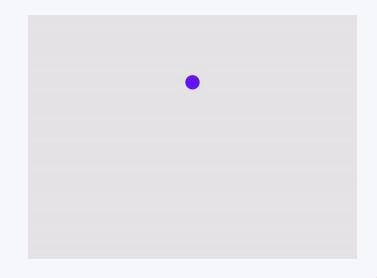






Color System

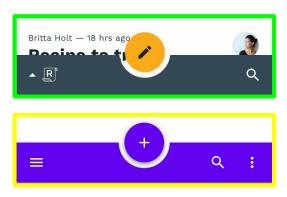
- Baseline colors
- Primary color
 - Most frequent
 - Dark and light variants
 - Create contrast
 - o 500 Value
- Secondary color
 - Accent
- Surface, background, and error



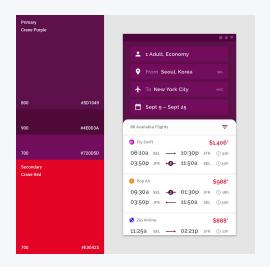


Color Usage

Show Contrast



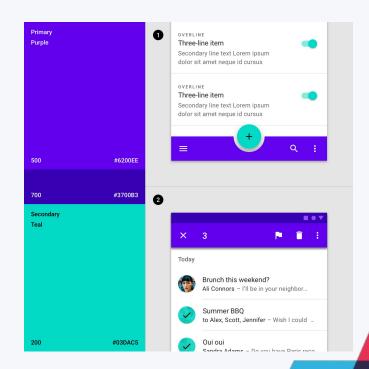
Separate layers





Highlight

- Action icons
- Feature discovery
 - Draws attention
- Emphasize brand



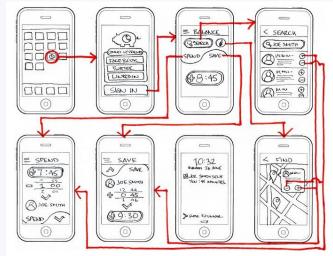




A Student Can translate wireframes into Android designs

Wireframes

- App Floor plan
- Reference for design
- Focused on functionality
- Easy to change and update
- Platform agnostic



Source: https://blog.prototypr.io/why-you-shouldnt-skip-your-wireframing-1f7a70d5c125



Converting a Wireframe

- 1. Finalize wireframe
- 2. Rough out buttons and layout
- 3. Refine layout
- 4. Add coloring



Source: https://dribbble.com/Bingi

