

Beyond Sketches





Beyond sketchesComputer methods



Prototyping Dimensions

▶1. Representation

- * How is the design depicted or represented?
- Can be just textual description or can be visuals and diagrams

▶2. Scope

Is it just the interface (mock-up) or does it include some computational component?



Dimensions (contd)

➤ 3. Executability

- Can the prototype be "run"?
- If coding, there will be periods when it can't

>4. Maturation

What are the stages of the product as it comes along?

Revolutionary - Throw out old one Evolutionary - Keep changing previous design



Terminology (1)

Early prototyping

- Used to evaluate function and interface
- Typically non-computer

Late prototyping

- Used to evaluate performance
- Usually computer-based





Low-fidelity prototype

High-fidelity prototype



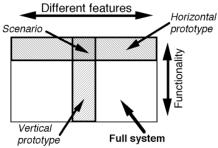
Terminology (3)

Horizontal prototype

Very broad, does or shows much of the interface, but does this in a shallow manner

Vertical prototype

Fewer features or aspects of the interface simulated, but done in great detail





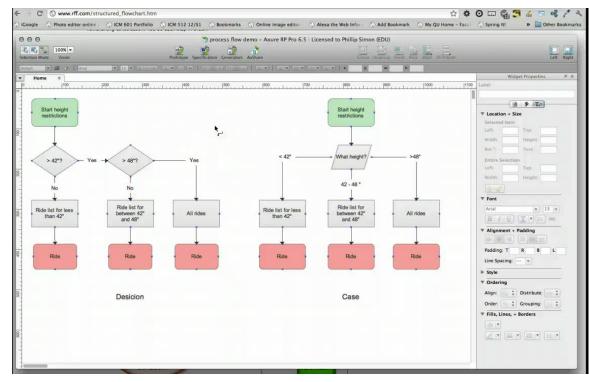
Computer-Supported Methods

Can support more rapid changes to simple mockups

- Can support more functionality for prototypes
- Can lead to "stale" design, can focus user (or customer) too much on the details of the interface, too early in the design process

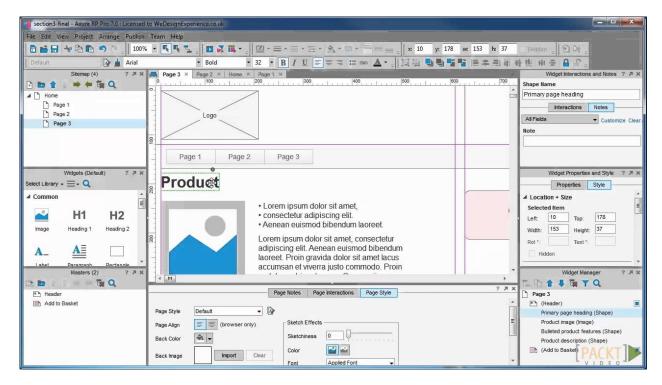
Axure

www.axure.com



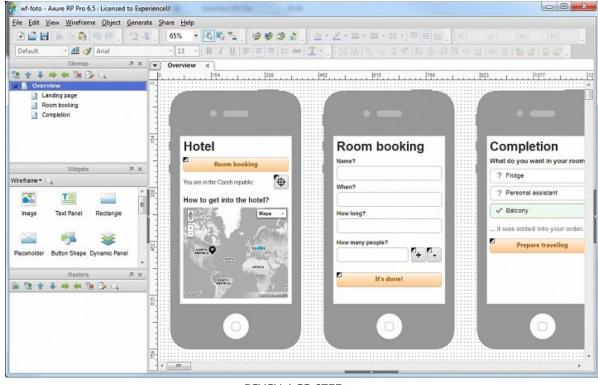


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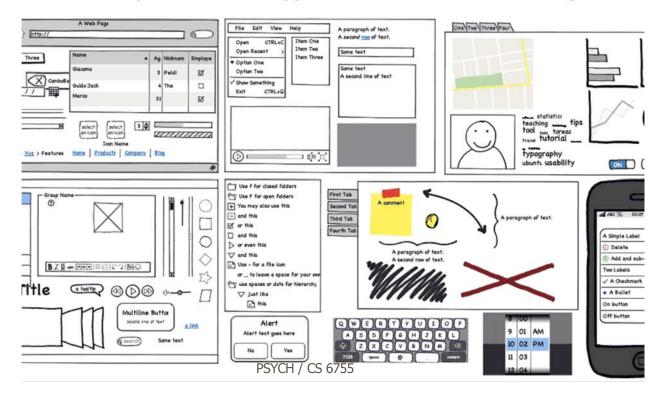




Balsamiq

http://www.balsamiq.com

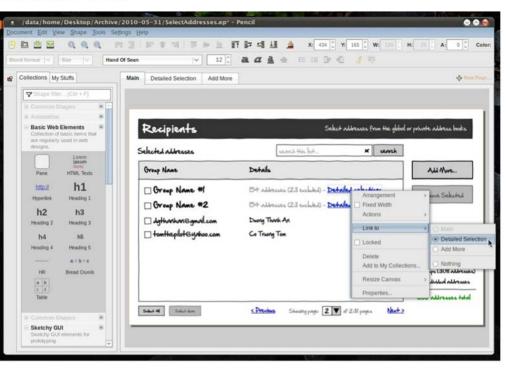
Components for Web, Application, and Mobile Interface Design



Pencil

- http://pencil.evolus.vn/en-US/Home.aspx
- Similar to Balsamiq
- > Open-source
- > Works with Firefox
 - or as an app
 - OSX
 - Windows
 - ✤ GNU/Linux

Inter-page Linking





Microsoft SketchFlow

- http://www.microsoft.com/Expression/products/SketchFlow_Overview.aspx
- Demo: <u>https://www.youtube.com/watch?v=vIdxeRxhO3c</u>

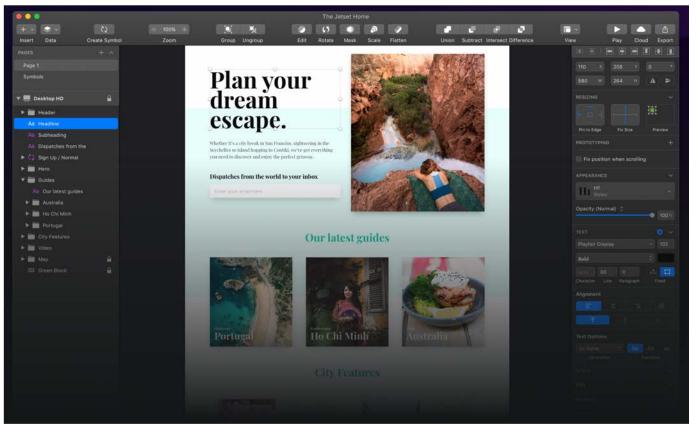
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Fall 2019

Sketch

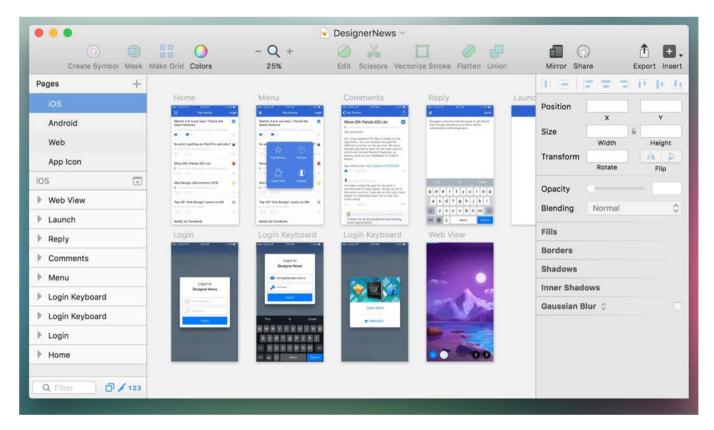
- https://www.sketch.com
- https://designcode.io/sketch-learn





Sketch

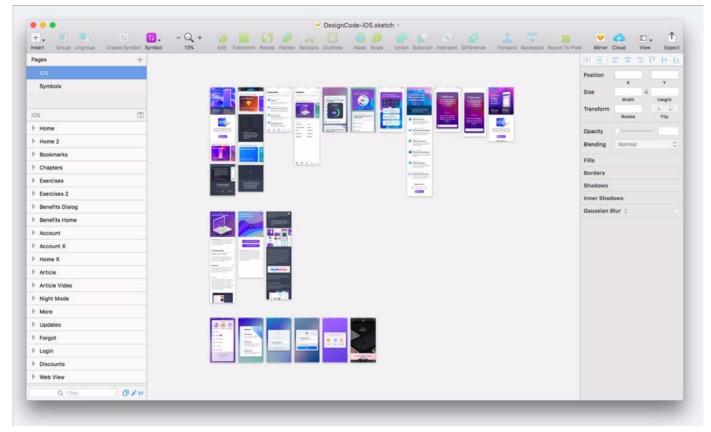
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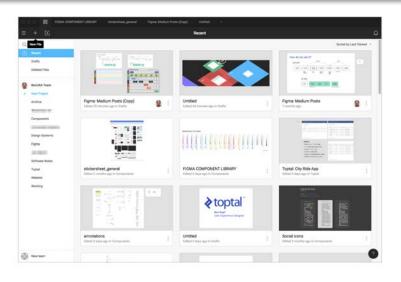




Figma

- https://www.figma.com
- https://www.toptal.com/designers/ui/figma-design-tool

Figma is a cloud-based design tool that is similar to <u>Sketch</u> in functionality and features, but with big differences that make Figma better for <u>team collaboration</u>. For those skeptical of such claims, we'll explain how Figma simplifies the design process and is more effective than other programs at helping designers and teams work together efficiently.







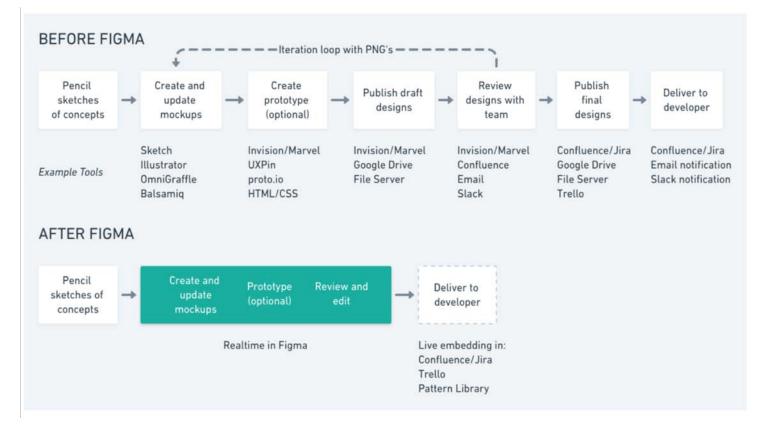
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Figma

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https://www.figma.com

https://www.toptal.com/designers/ui/figma-design-tool

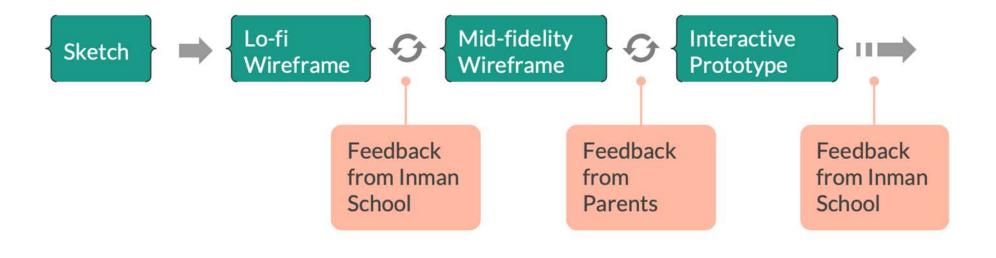




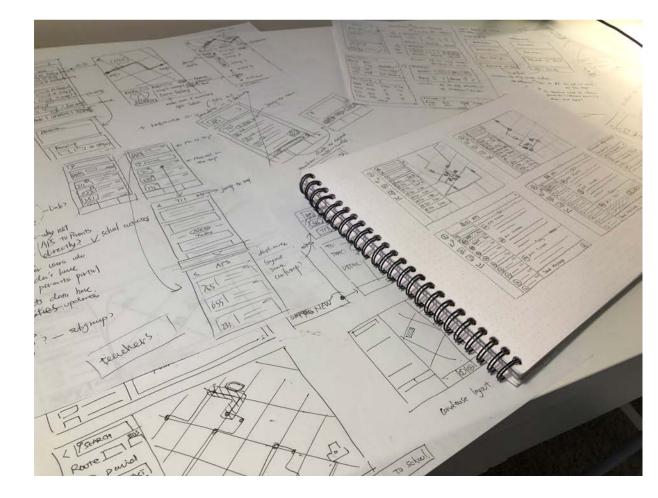
Figma in Use

School Bus Information App

School Portal - Design Process



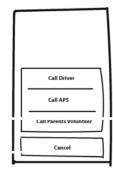
School Portal Sketch

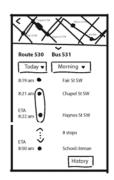


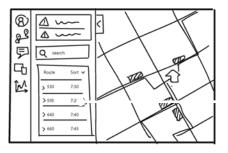
School Portal Wireframes



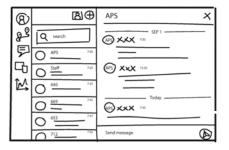


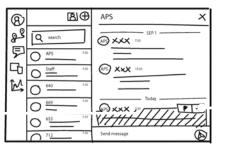


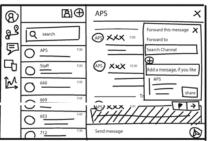


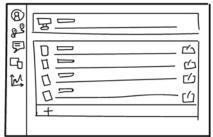






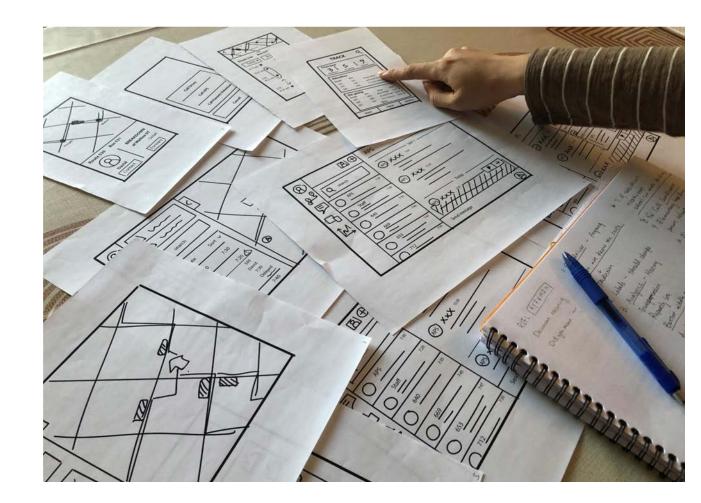




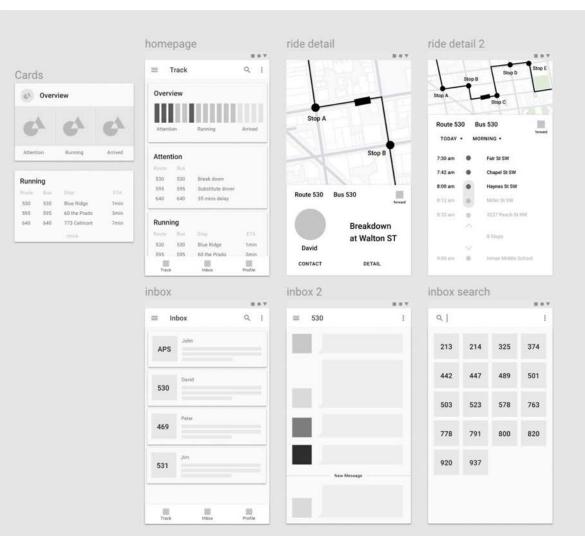


School Portal Feedback

- Multiple Tiers
- Substitute Drivers
- Add Field Trip
- Route Analytics
- ...



School Portal Mid-fidelity Mobile Interfaces

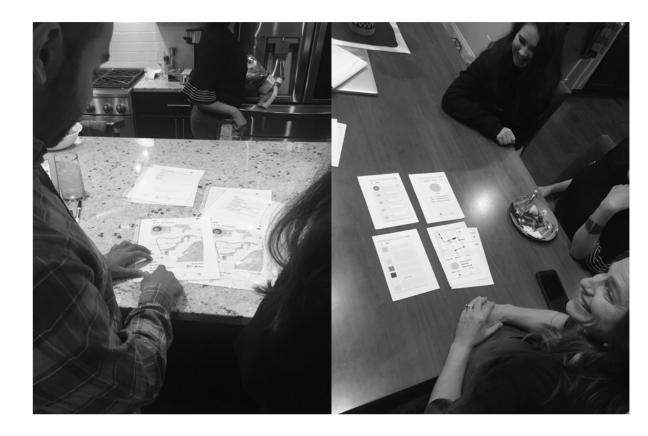


School Portal Mid-fidelity Desktop Interfaces



School Portal Feedback

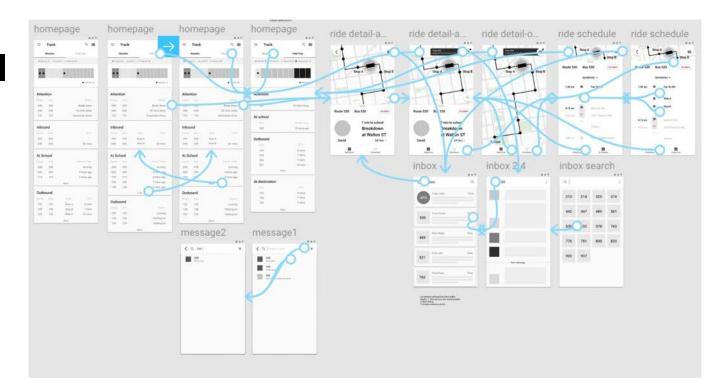
From Parents



School Portal Prototype

Link:

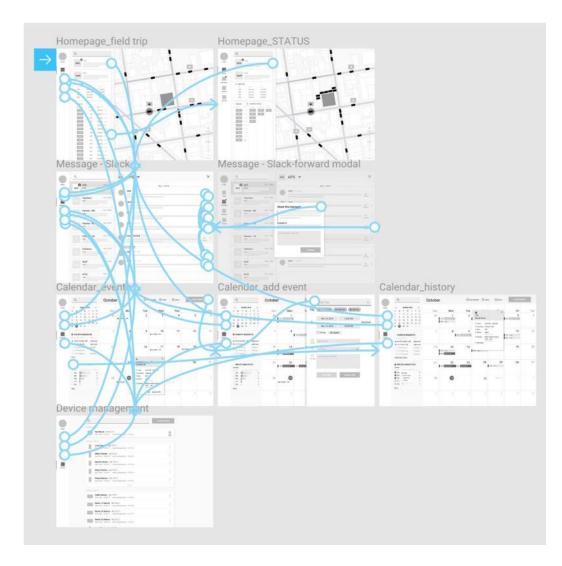
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School Portal Prototype

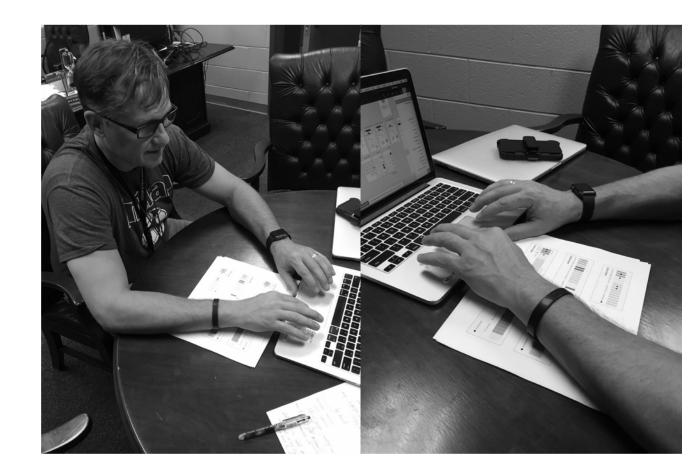
Link:

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School Portal User Testing

From
Principal of
Inman
Middle
School



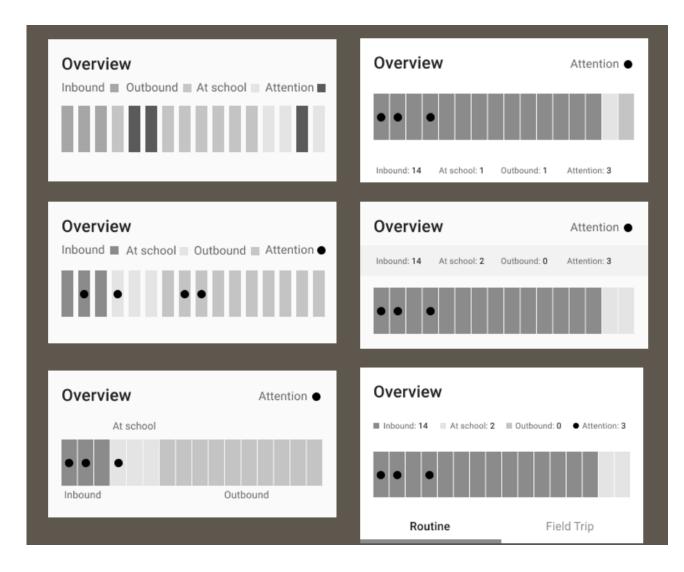
School Portal - Iteration

Based on meetings with advisor, feedback sessions from stakeholders and user testings

We iterate our design constantly during the process...

School Portal Iteration on mobile platform

• Overview evolution



School Portal - Iteration on desktop platform

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Midterm ExamPoster Session