

MI349

Web Design ⚡ Development

Class Updates

Final Project Progress

- ✓ Ideation and Pitch Boards
- ✓ Persona Development
- ✓ Content Organization and Card Sorting
- ✓ IA and Copywriting
- ✓ Wireframes
- ✓ Comps
- ✓ Production and Testing

Upcoming Schedule

- **Week 9:** Layouts, Flexbox and Wireframing
- **Week 10:** Design Principles and Comps
- **Week 11:** Mobile and Responsive Design
- **Week 12:** JavaScript Primer
- **Week 13:** Deployment
- **Week 14:** TekSystems/Final Project
- **Week 15:** TBD/Final Project Time

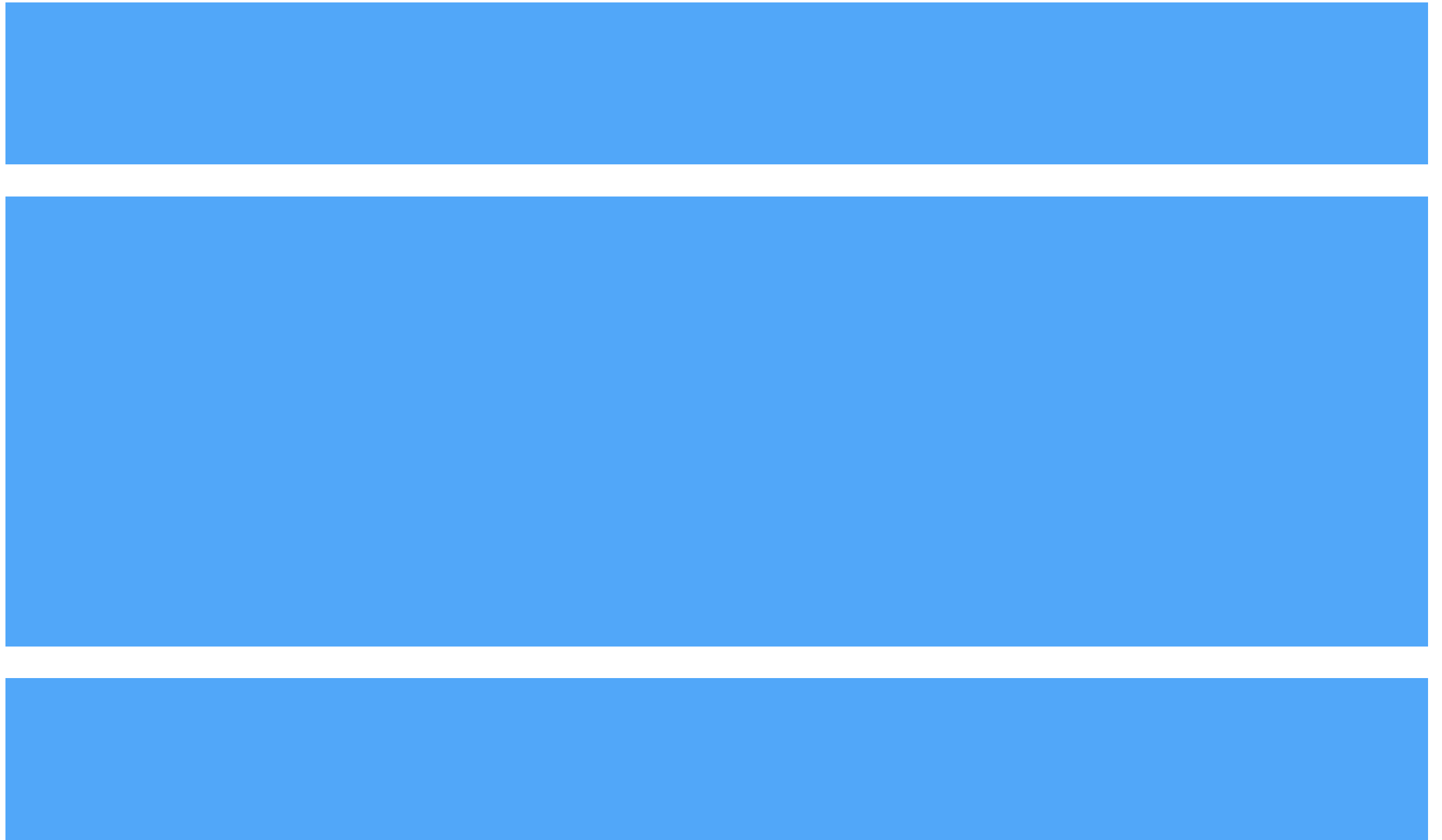
Grades

Layouts and Flexbox

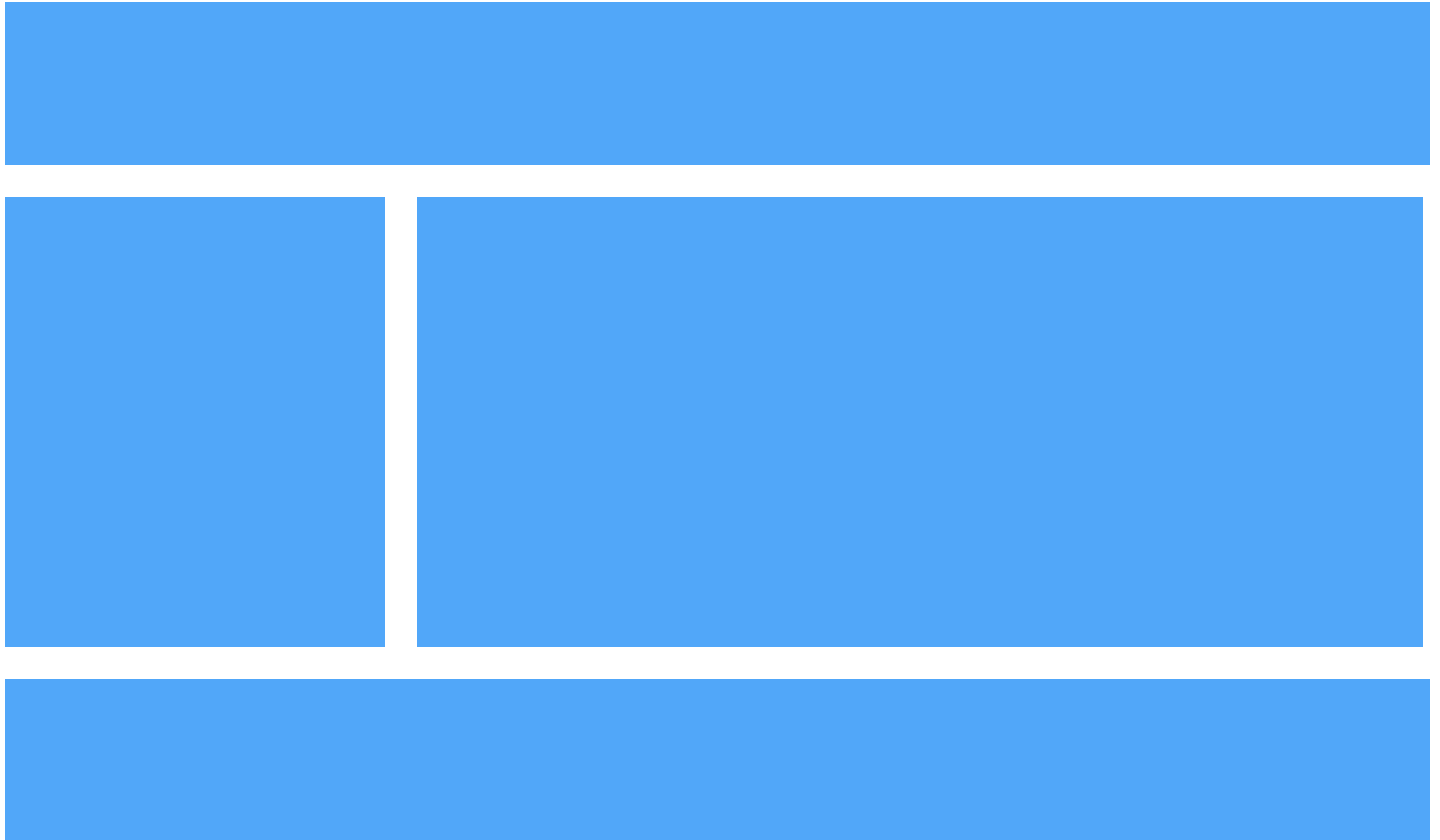
A Brief History of Web Layouts

- **- 1994:** Basic Layouts
- **1994 - 1998:** Table-based Layouts
- **1998 - 2002:** Mostly tables, CSS2 introduced
- **2002 - 2006:** Killing tables, Browser incompatibility and hacks
- **2006 - 2010:** Tables are dead, long live browser incompatibility; Mobile
- **2010 - Present:** CSS3/Flexbox

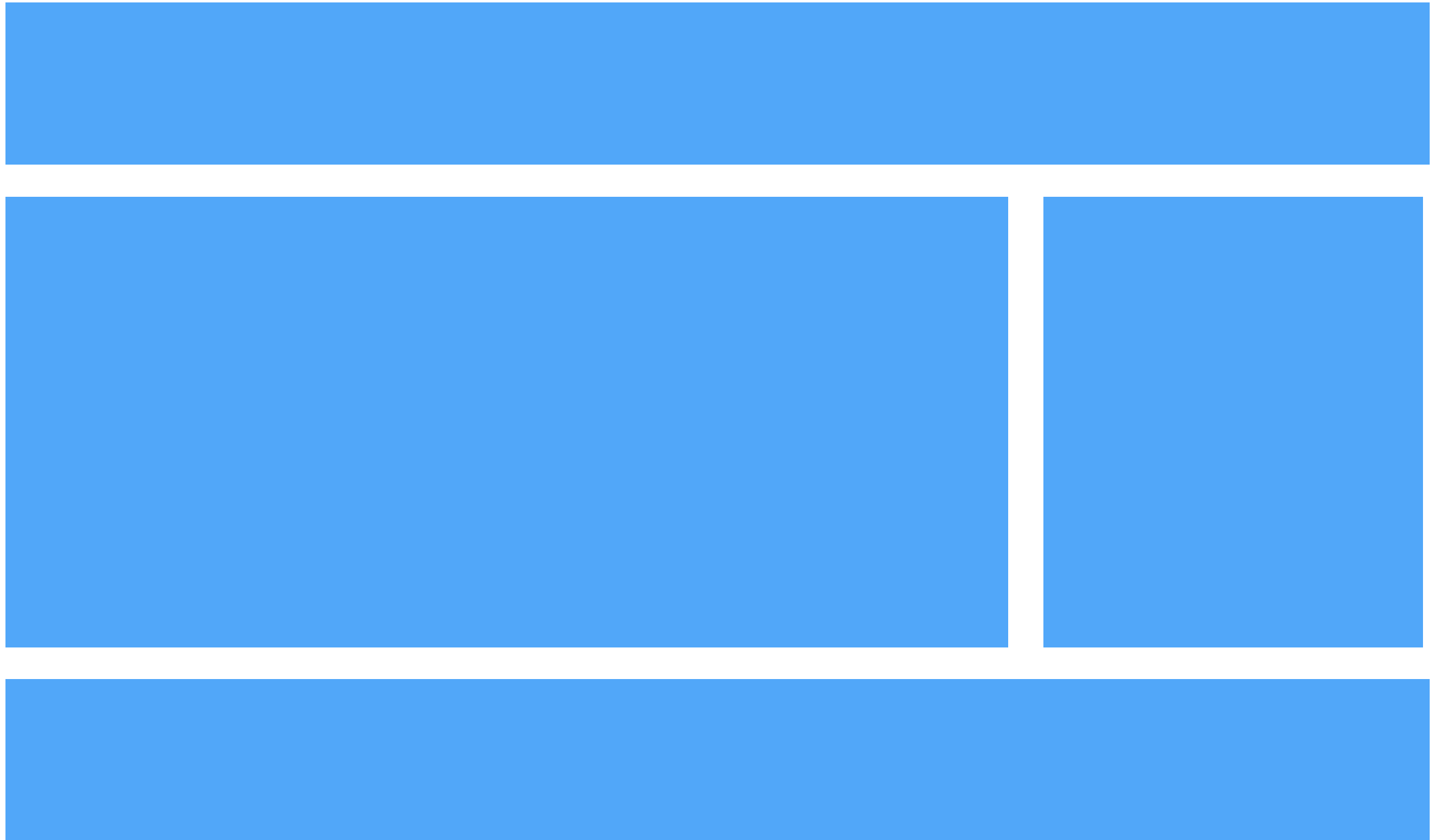
Common Layout Patterns



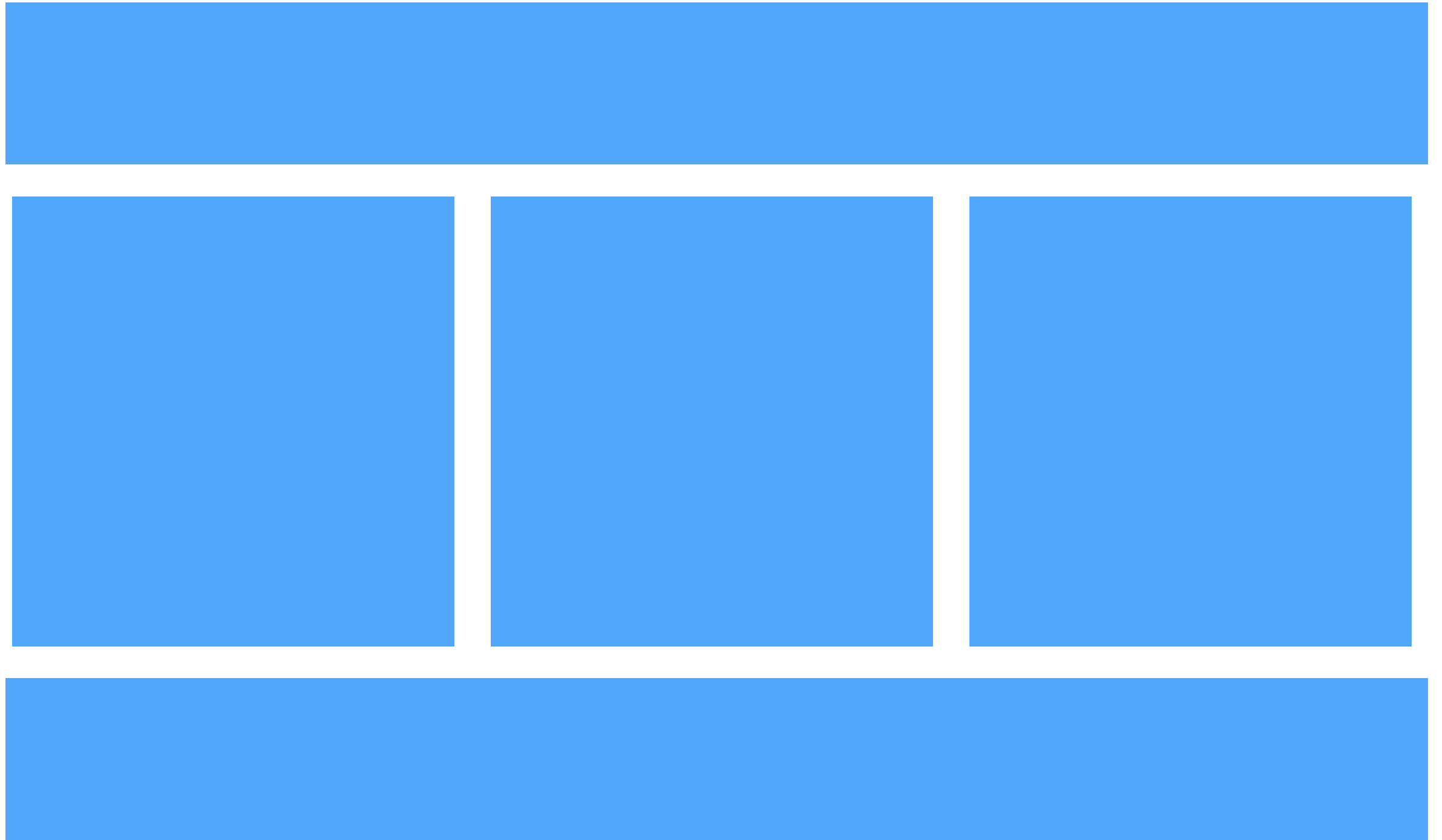
Header + Full-width content + Footer



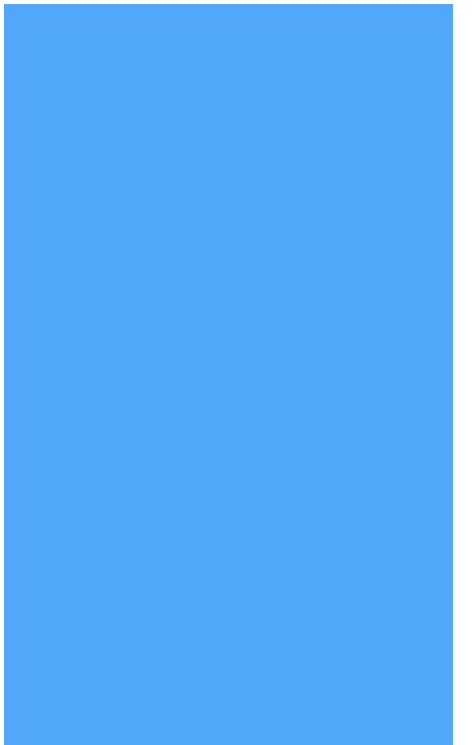
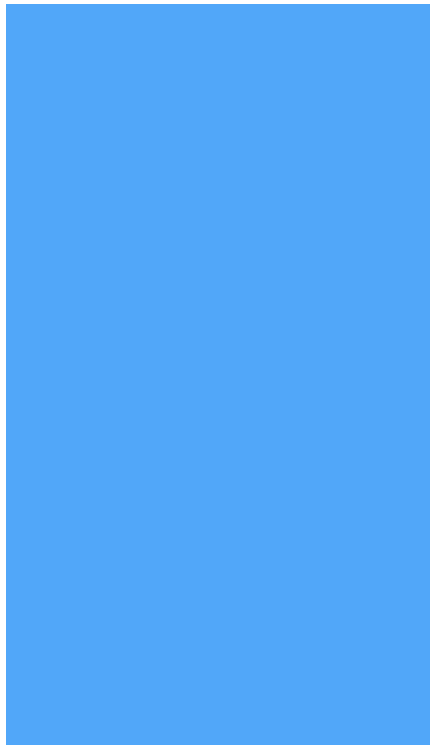
Header + Left sidebar + Content + Footer



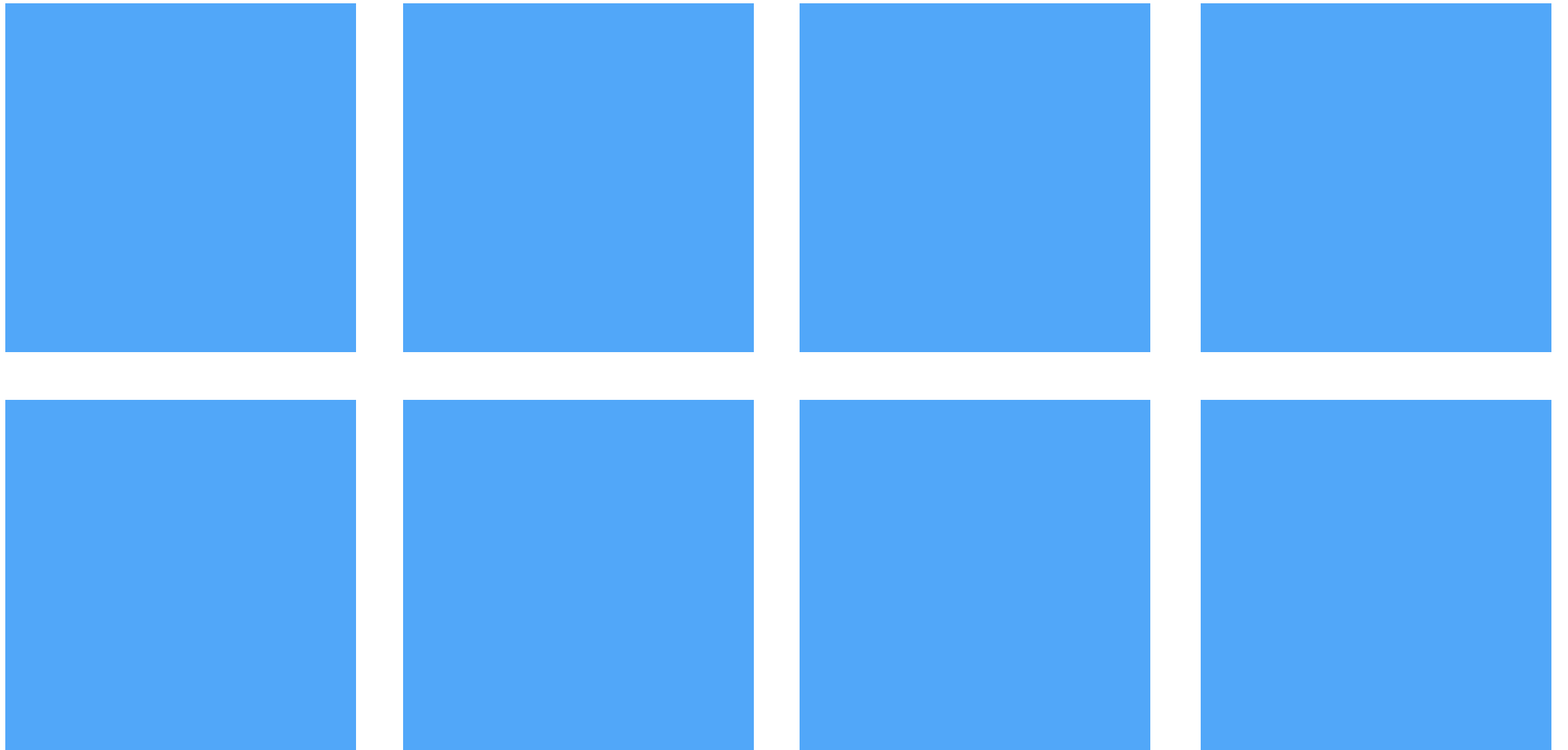
Header + Right sidebar + Content + Footer



Header + Three Column Content + Footer



Holy Grail



Header + Grid

Flexbox Basics

- “...aims at providing a more efficient way to lay out, align and distribute space among items in a container, even when their size is unknown and/or dynamic (thus the word “flex”).”
— *CSS Tricks*
- Flexbox gives the container the ability to change the size of its items based on the width of the view.

Lexicon



The diagram illustrates a 'Lexicon' structure. It consists of a large light blue rectangular container. Inside this container, there are four smaller, dark blue rectangular items arranged horizontally. The first item on the left is labeled 'Item' in white text. The other three items are empty. The word 'Container' is written in white text at the bottom left of the light blue container.

Item

Container

Flex Container

- The primary element that holds the “display: flex” rule.
- Most properties have to do with the behavior of the child items.
 - Direction
 - Wrap
 - Content Justification
 - Item Alignment

Flex Items

- Flex items are the direct children of the flex parent container.
 - Grow/shrink
 - Basis
 - Self-alignment

Flexbox Demo

Wireframes

Why We Wireframe

- Because it takes less time than creating a Photoshop comp.
- Because it takes less time than creating HTML and CSS.
- Because we're pretty sure our first guess won't solve all our problems.
- Because visual ideation is important.

Paper Prototyping

- You only need paper, pens/markers and maybe some scissors.
- Create low-res elements in different configurations (you can even cut them out and overlay them over your background)
- Show them to people on your team and use them as the basis for further design discussion.

Resolution

- How thick of a marker do you use?
- The idea behind wireframes is to articulate *enough* design to get your point across or your idea down on paper.
- 37signals famously uses a thick Sharpie for their wireframes: <https://signalvnoise.com/posts/466-sketching-with-a-sharpie>

Software Tools

- Wireframe CC
<https://wireframe.cc/>
- Axure
<http://www.axure.com/>
- Balsamiq
<https://balsamiq.com/>
- UX Pin
<https://www.uxpin.com/>

D2L

Lab Preview

- CSS Flexbox and Layout Lab
- Final Project Wireframes