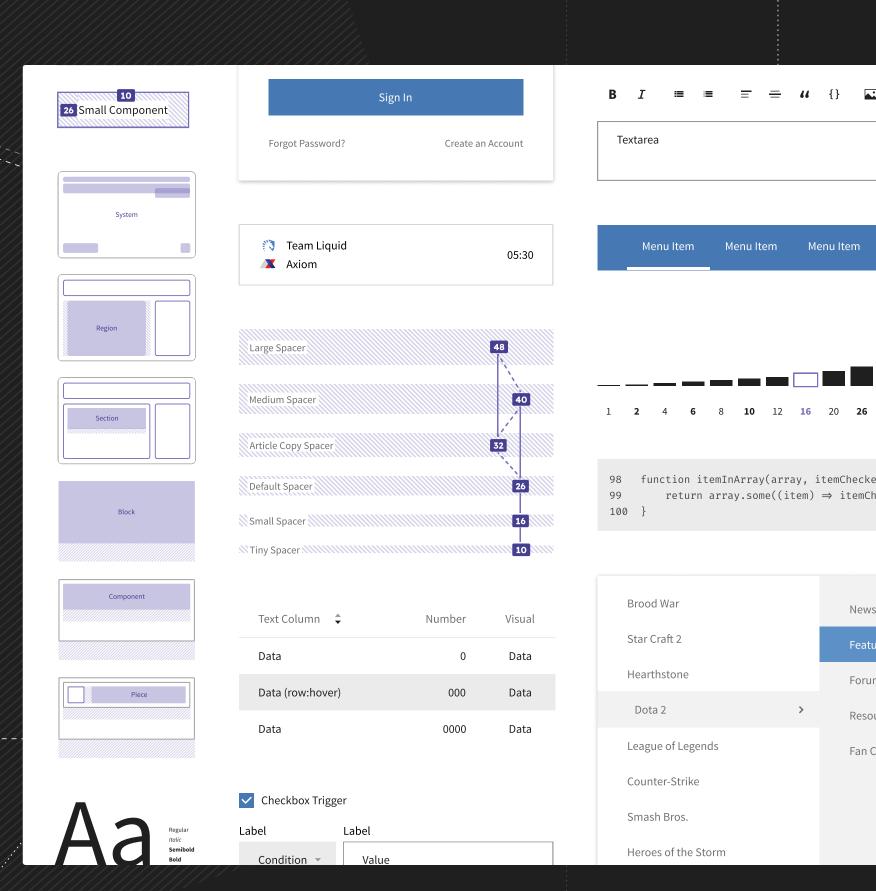
Team Liquid Design System

Designing Modular Systems to Enable a Sustainable Future

My Role: Project Lead, Design Lead, Writer



1. Confext



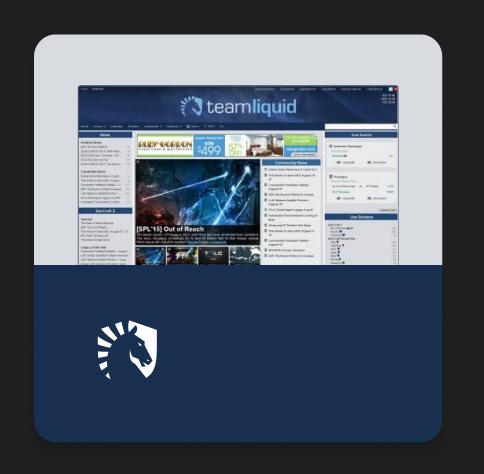
Internal Challenges

- 1–2 Product People
- Lots of Friction
- Poor User Experiences
- Always Starting from 0

Project Goals

- · Reduce design/development time.
- · Create a strong core user experience.
- Enable maximal flexibility.
- · Optimize aggressively for performance.

2. Uncovering Patt





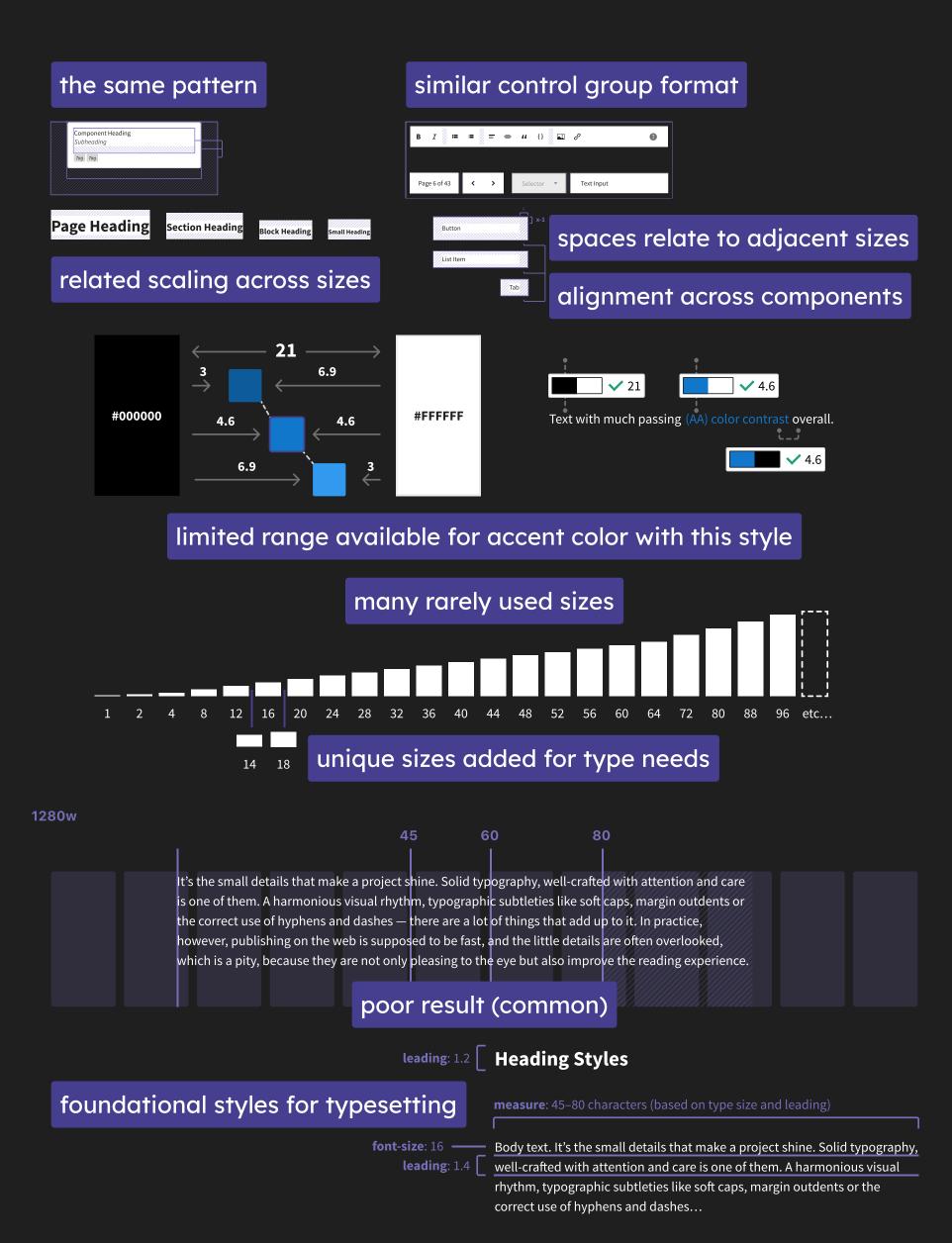




UI Audit

Systems Analysis

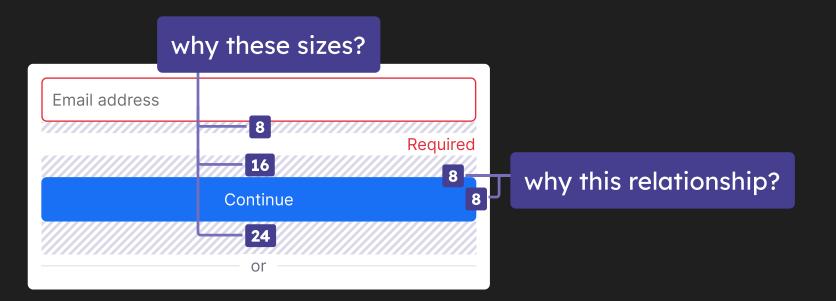
- Patterns depended on context
- Spatial systems had issues
- Grids created poor ux
- Typesetting already has rules

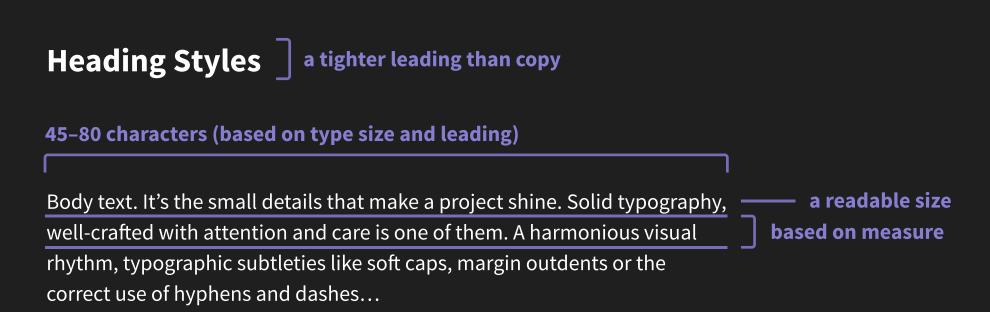


3. Crafting System

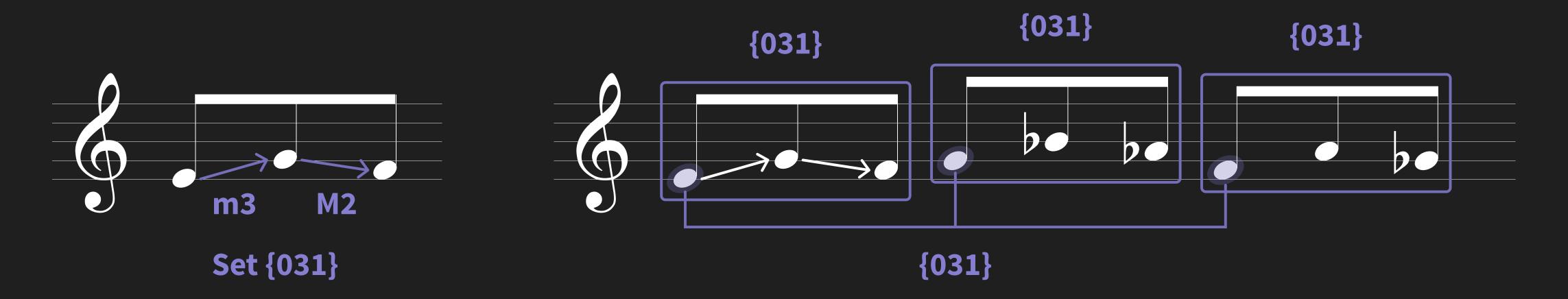
Musical Recursion as a Creative Superpower

A few details helped guide my approach





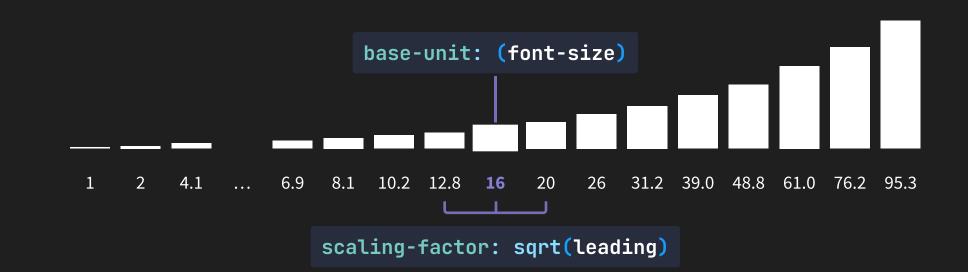
Also... Performance is King



Recursion is a common tool in composition.

A recursive spatial system provided a few benefits:

- Predictable relationships
- Easier decision making
- Minimize footprint
- Highly adjustable
- Accessible
- More fluidity



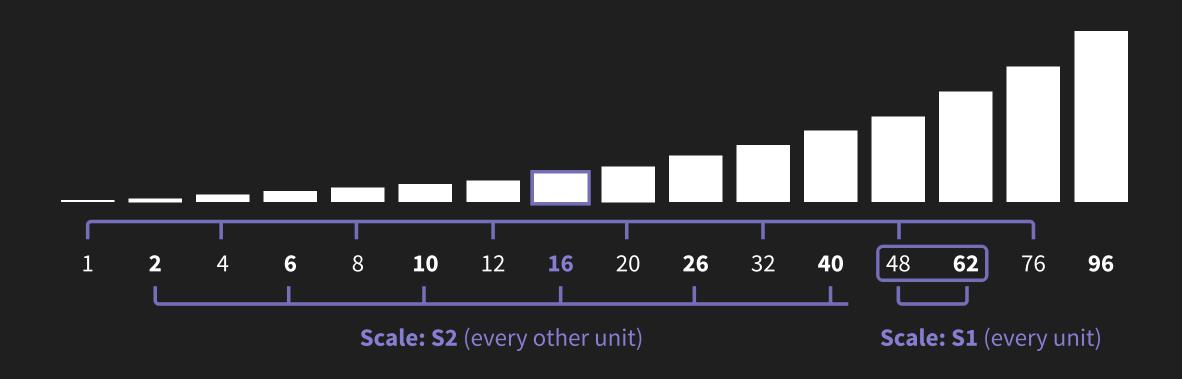
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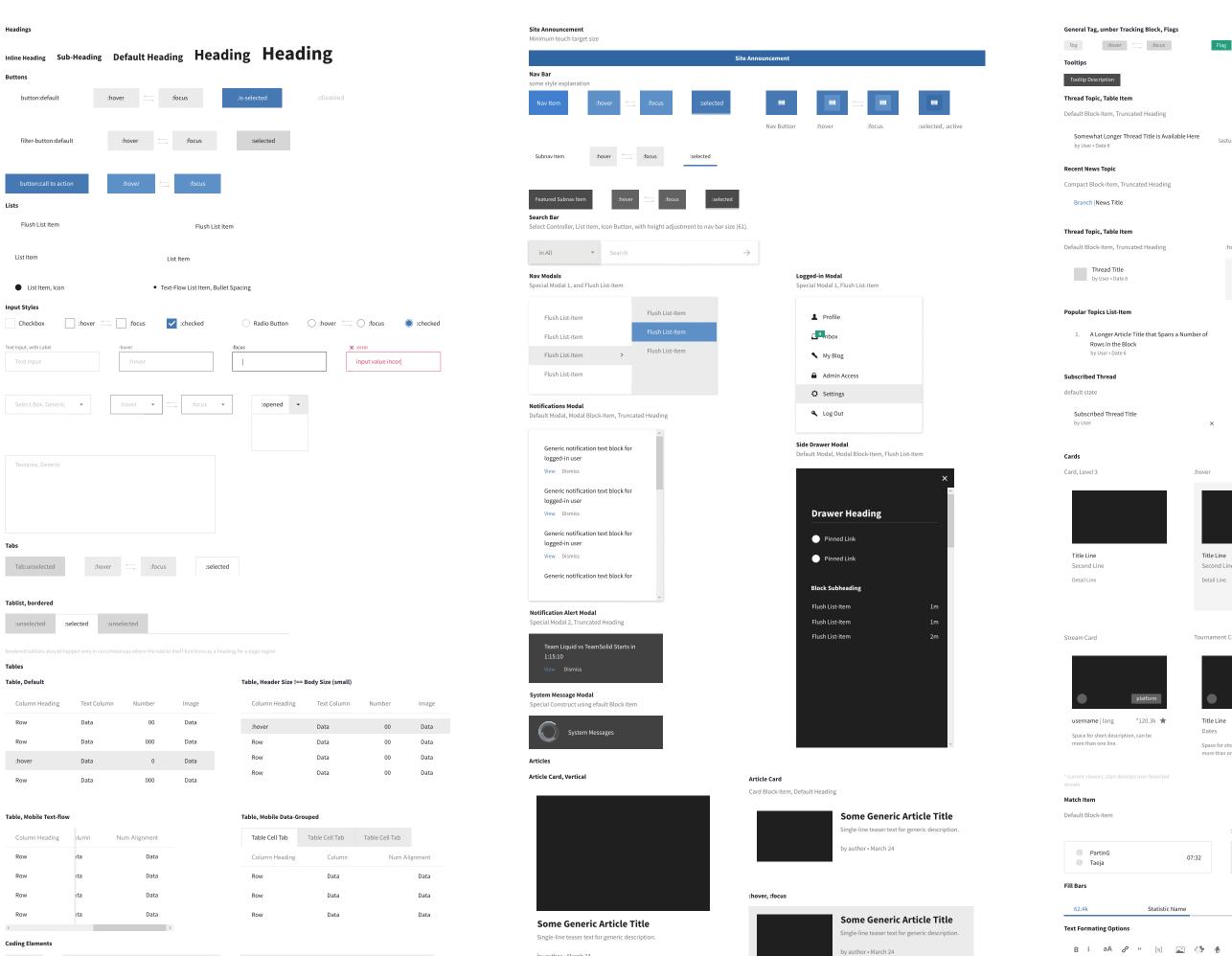
It's the small details that make a project shine. Solid typography, well-crafted with attention and care is one of them. A harmonious visual rhythm, typographic subtleties like soft caps, margin outdents or the correct use of hyphens and dashes...

measure-maximum: 80

An imperfect system maintained the core benefits and avoided sub-pixel issues.

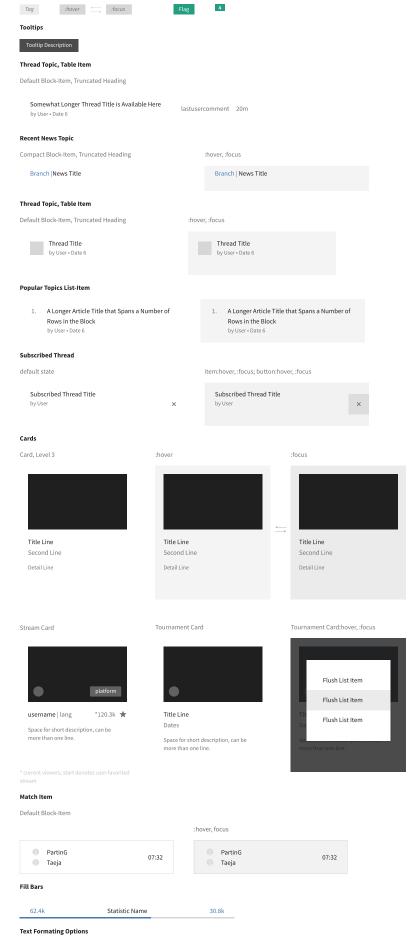


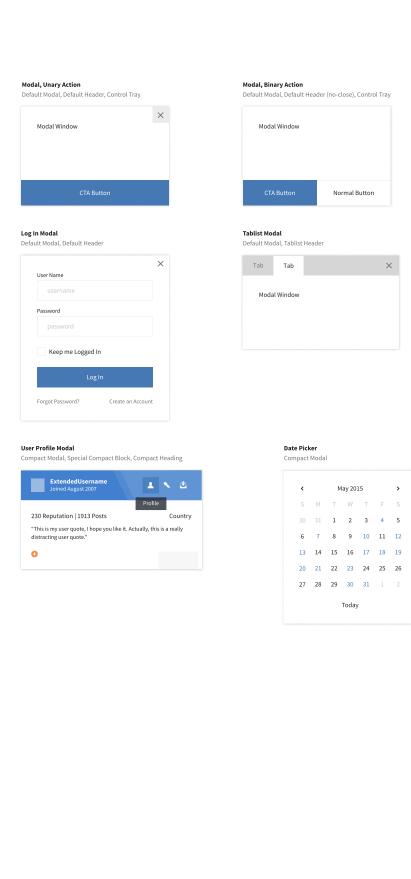
The original problem: design was a monolith.



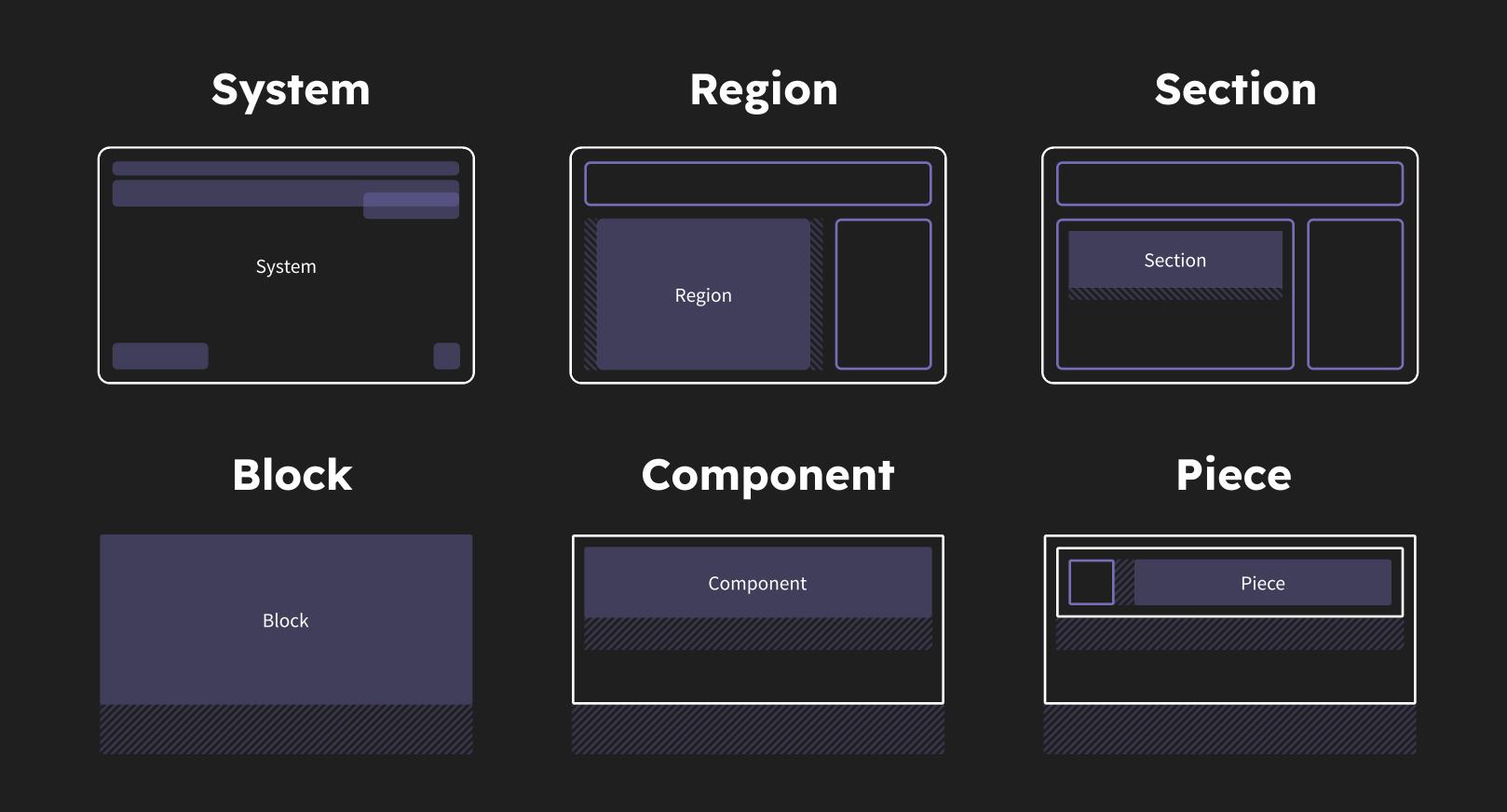
by author • March 24

code-item

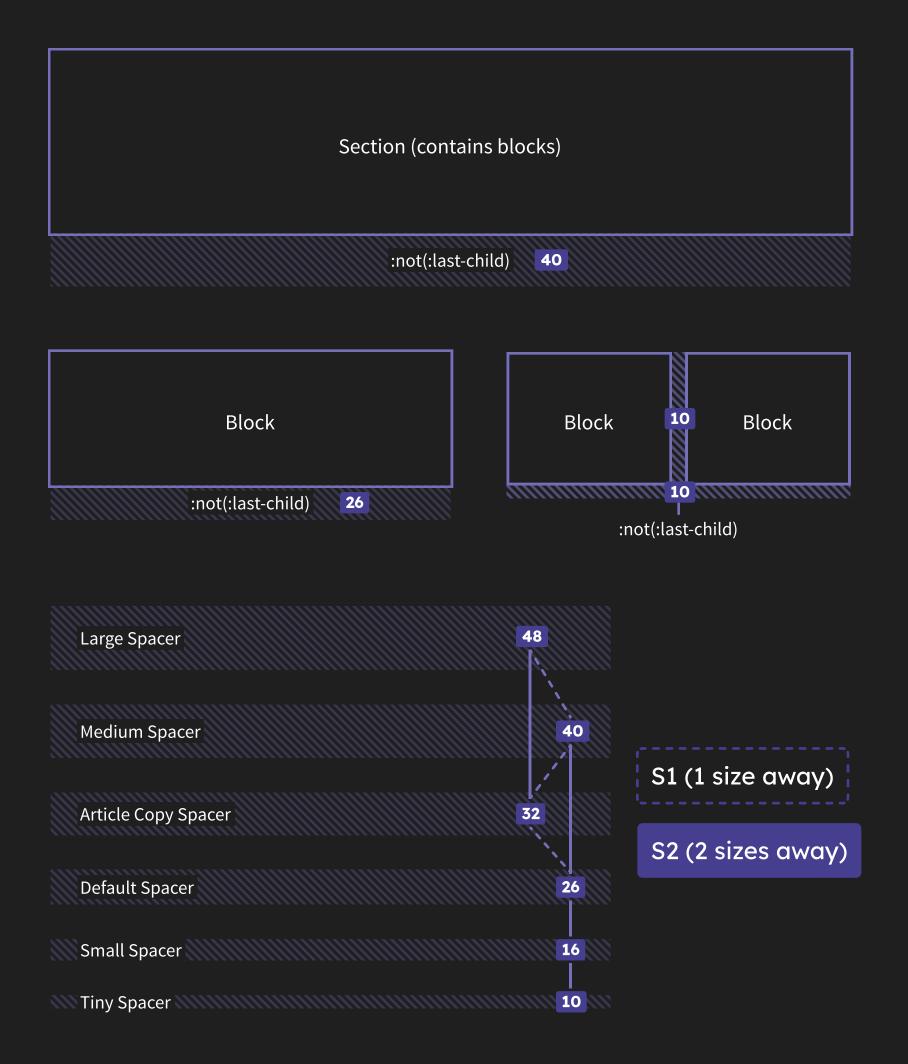




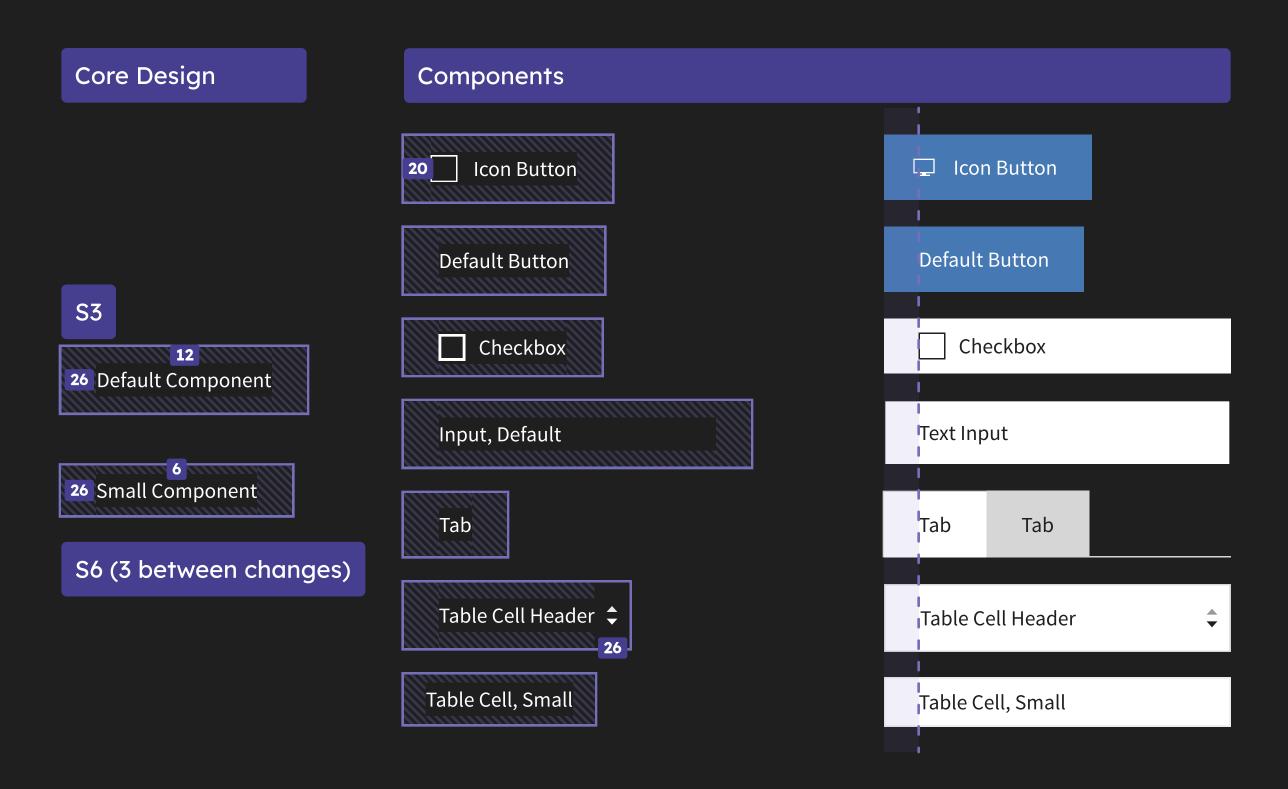
Today



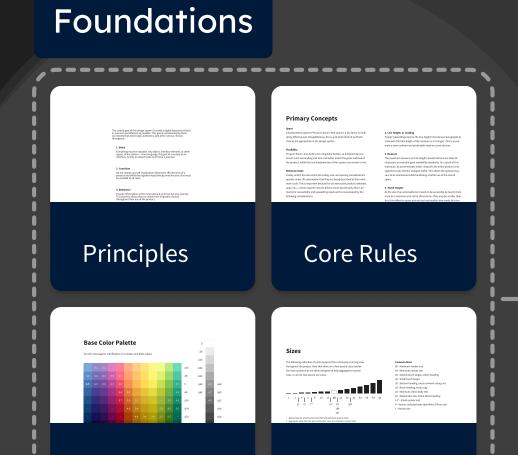
A clear hierarchy enabled highly targeted and modular systems to be created for many themes.



Components could also be built around abstractions that created predictability.

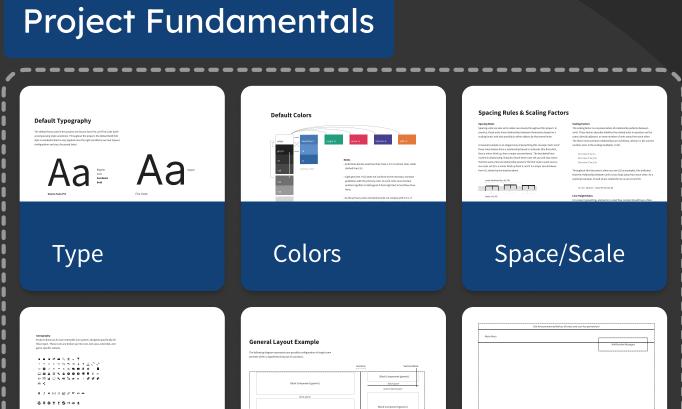


Systems at the Build Layer



Space

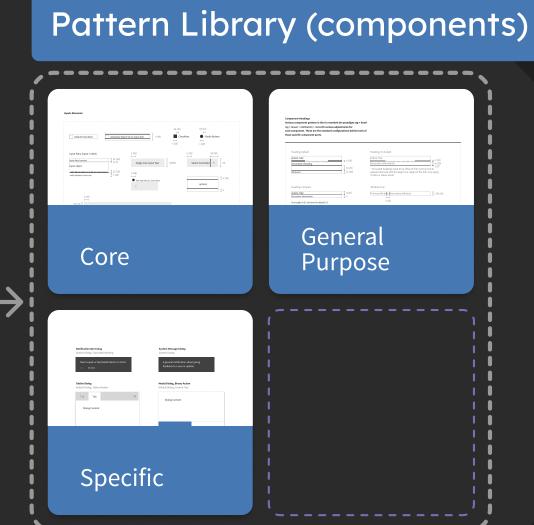
Color



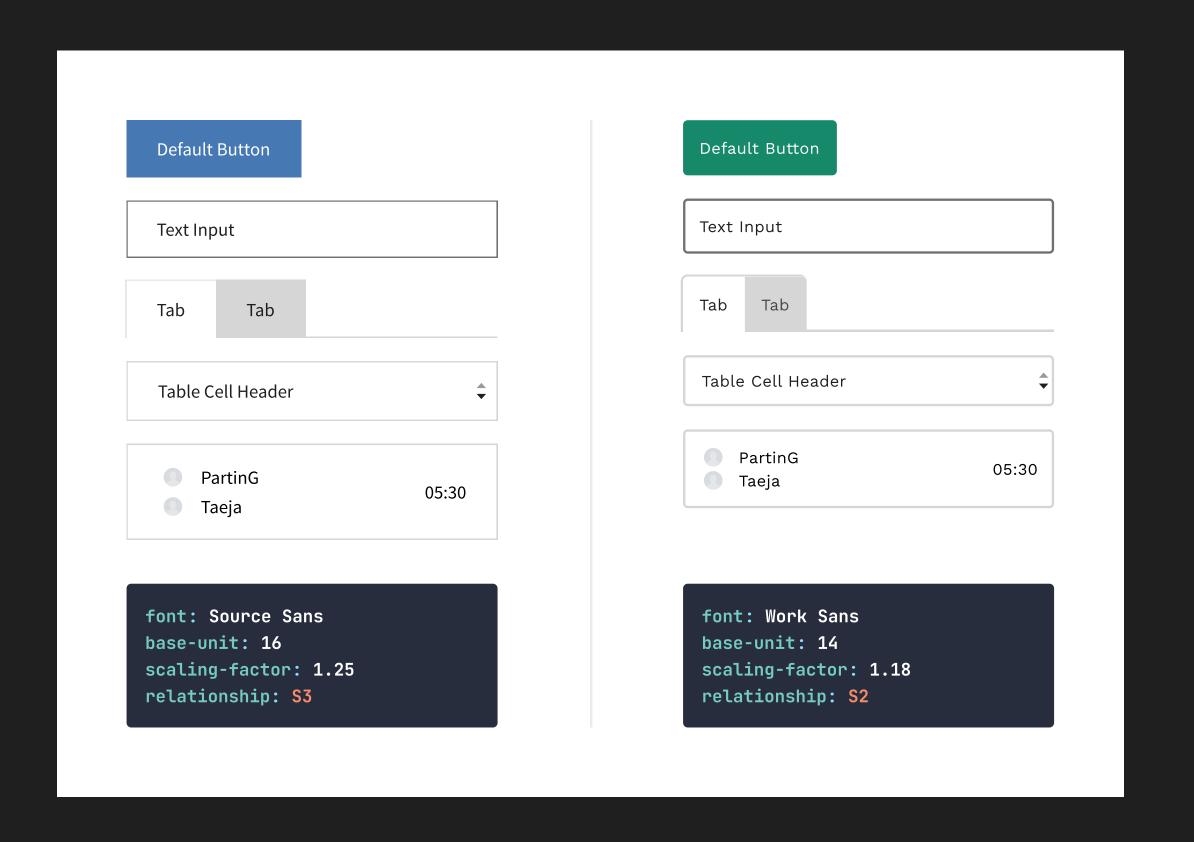
Composition

Core Layout

Aesthetics

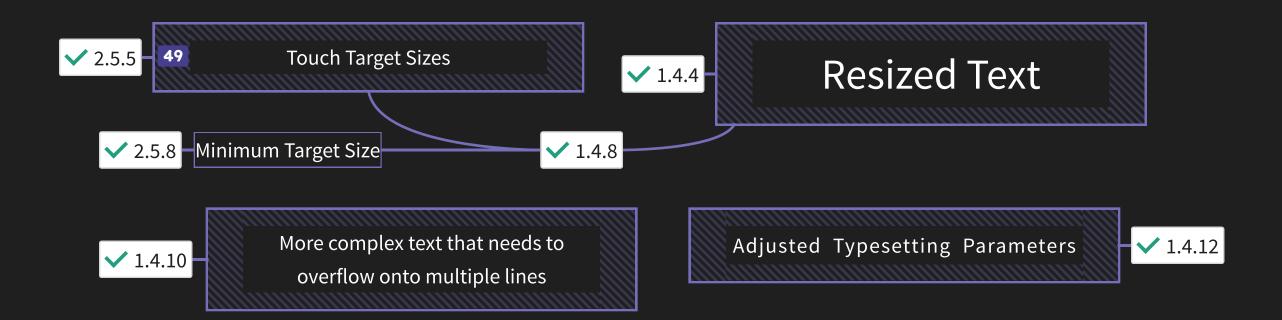


Result: many projects could rely on a single core system.



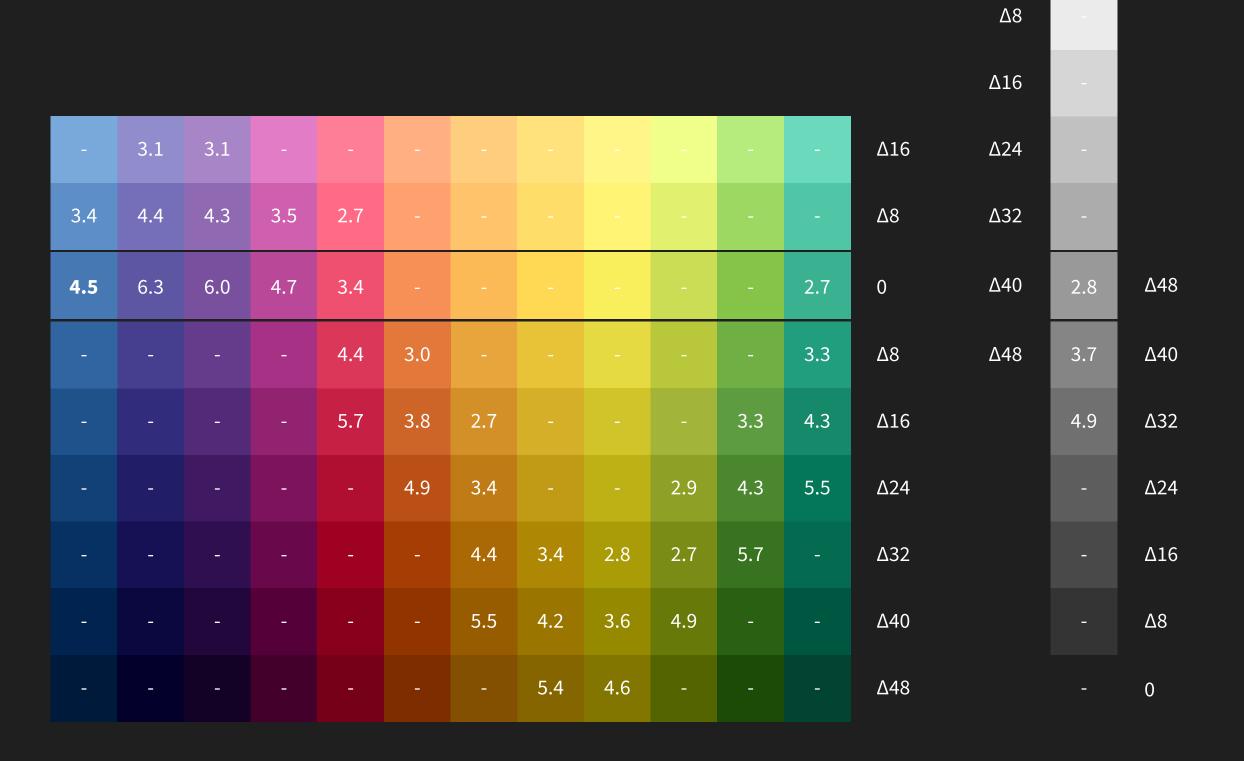
Accessibility as a Core Driver

Building around good typesetting delivered several accessibility benefits automatically.



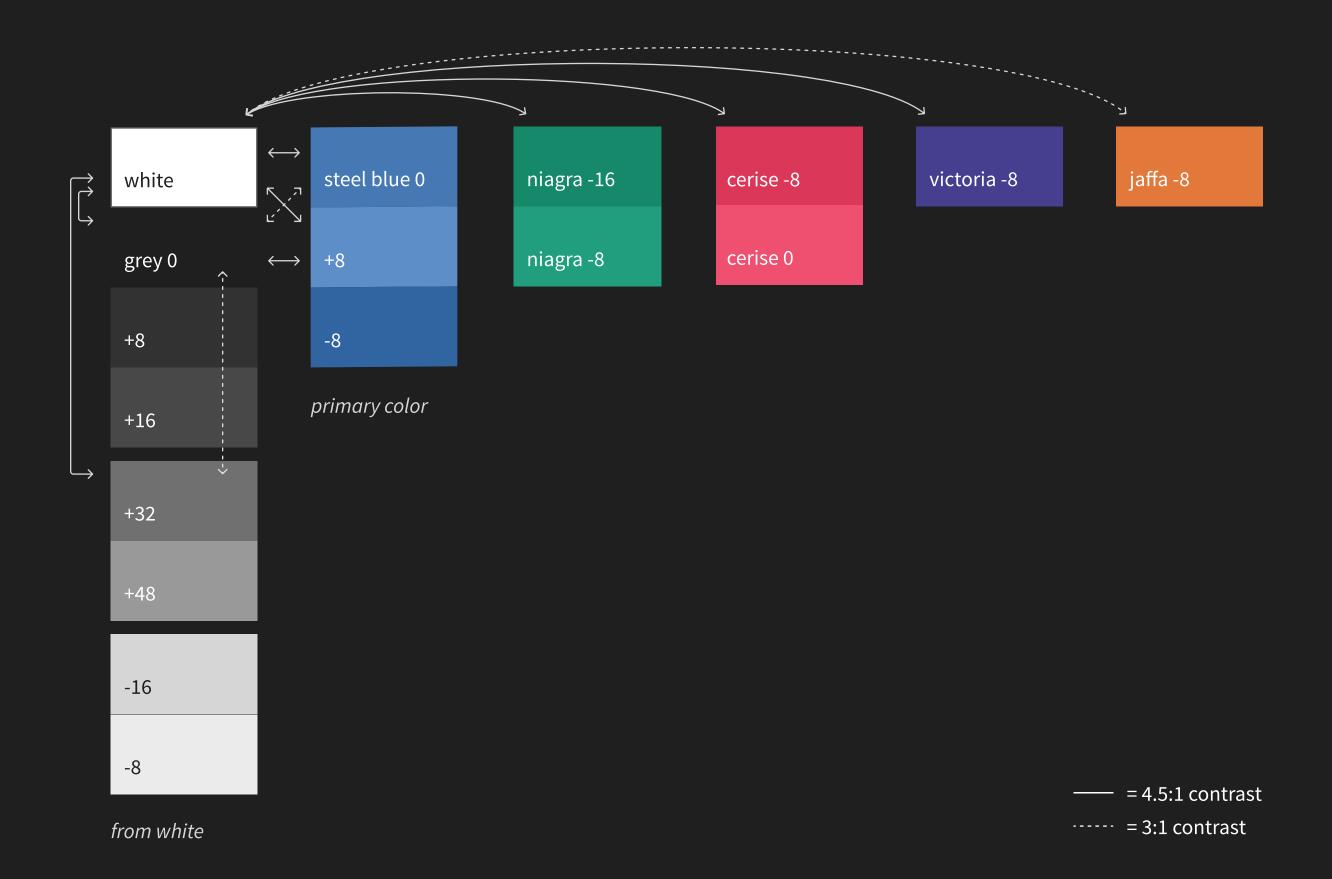
Designing a color system that's both easy to use, and accessible is challenging.

Sampling colors at meaningful intervals helped to balance complexity with contrast needs.



Deviating by ±0.3 allowed for better color results, while still being close to the AA standard.

(more on this later)



4. Outcomes

40000 2.5×

Reduction in design-to-developtment time

25%

Increase in accessibility compliance

Increase in system usability

50%

Reduced bundle sizes

Improvements that can be made

More modularization for smaller themes would be beneficial.

Learnings

- Pain Points with Design → Code Translation
- A Flawed Color Algorithm, and Good Intuition

Project Lead Nik Jeleniauskas

Designers Nik Jeleniauskas