

# Data Visualization & Design

**Week 8**

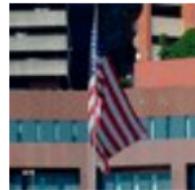
# Announcements

No class next week:  
**March 19**

This week in **visualization...**



The Brexit Plan Just Failed Again: What Happened, and What's Next?



In Setback in Venezuela, U.S. Is Withdrawing Diplomats From Its Embassy



LIVE BRIEFING  
Ethiopian Airlines Crash Updates: E.U. Suspends All Operations of Boeing...



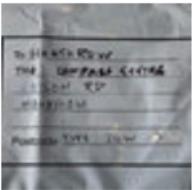
In Australia, Catholic Church's Bank Is Full, but Pews Are Empty



Vote Could Free More Than 30 Men Accused of War Crimes in Guatemala

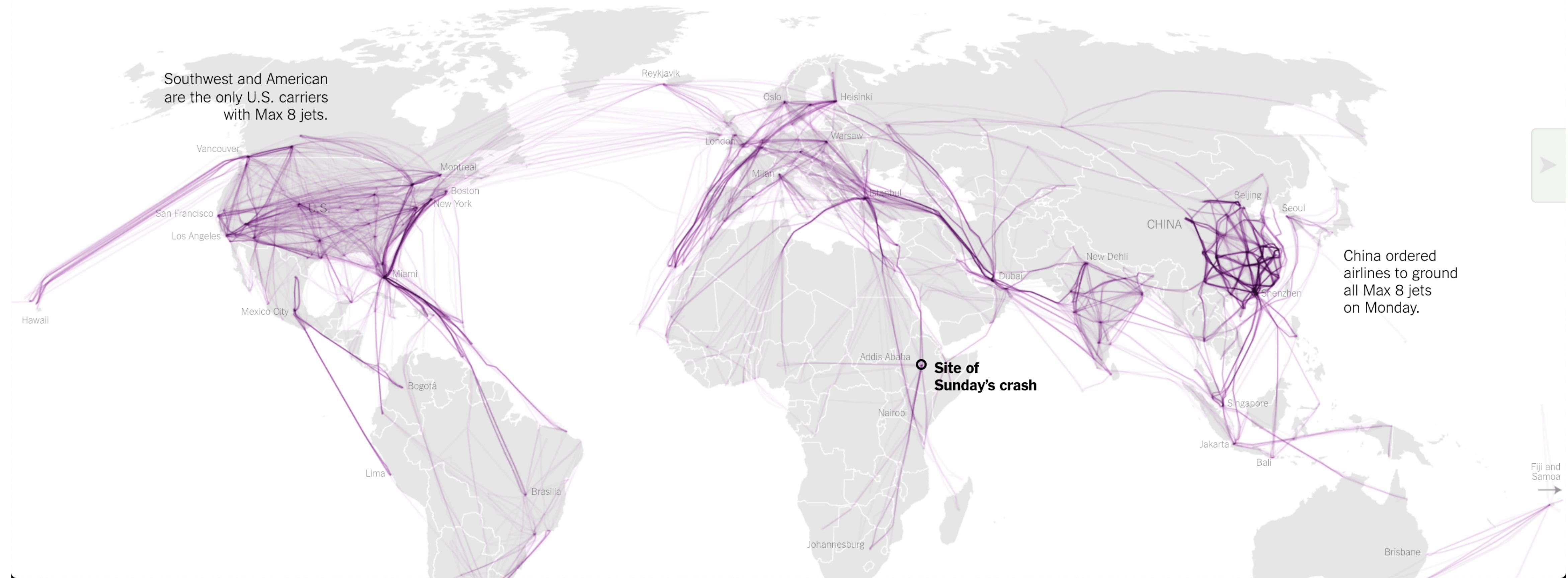


Muslim Detention Camps Are Like 'Boarding Schools,' Chinese Official Says



# Which Airlines Fly the Boeing 737 Max 8

By DENISE LU, ALLISON MCCANN, JIN WU and K.K. REBECCA LAI UPDATED March 12, 2019



1. Approaches to **Digital Storytelling**
2. Building a **Visual Narrative**
3. Studio: **Interaction** in D3.js

1. Approaches to **Digital Storytelling**
2. Building a **Visual Narrative**
3. Studio: **Interaction** in D3.js

# **Case Study:**

## “A Map of Every Building in America” (NYT)

# A MAP OF EVERY BUILDING IN AMERICA

By **TIM WALLACE, DEREK WATKINS and JOHN SCHWARTZ**

Oct. 12th, 2018

Most of the time, The New York Times asks you to read something. Today we are inviting you, simply, to look. On this page you will find maps showing almost every building in the United States.

Why did we make such a thing? We did it as an opportunity for you to connect with the country's cities and explore them in detail. To find the familiar, and to discover the unfamiliar.

So ... look. Every black speck on the map below is a building, reflecting the built legacy of the United States.

**Use the search bar to find a place and explore the interactive map below.**

 Search for a city or ZIP code

# Key Approaches

1. Exploratory data analysis (show everything)
2. Focused graphics to edit and shape a story

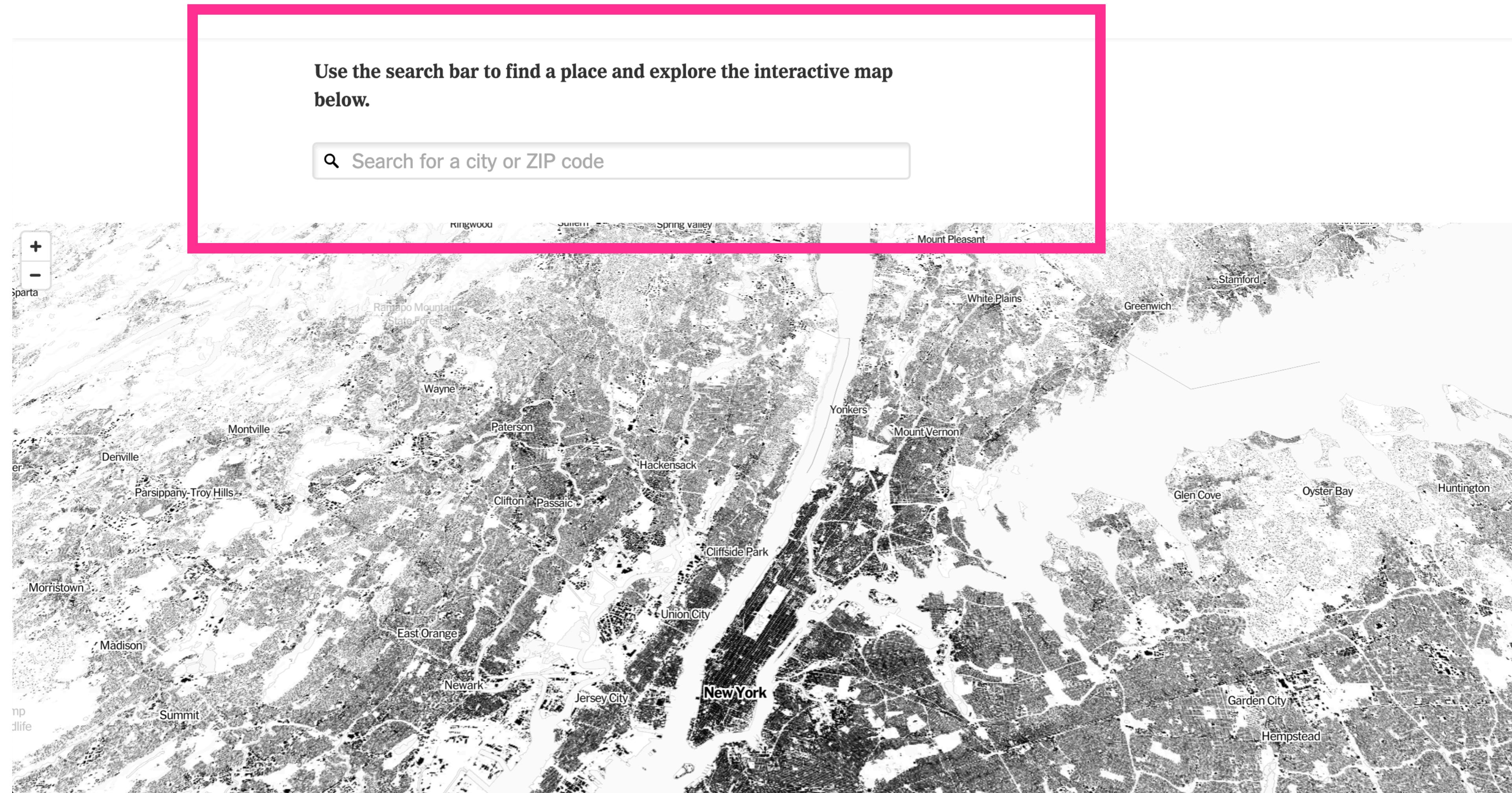
# Key Approaches: Exploratory Data Analysis

Use the search bar to find a place and explore the interactive map below.

Search for a city or ZIP code



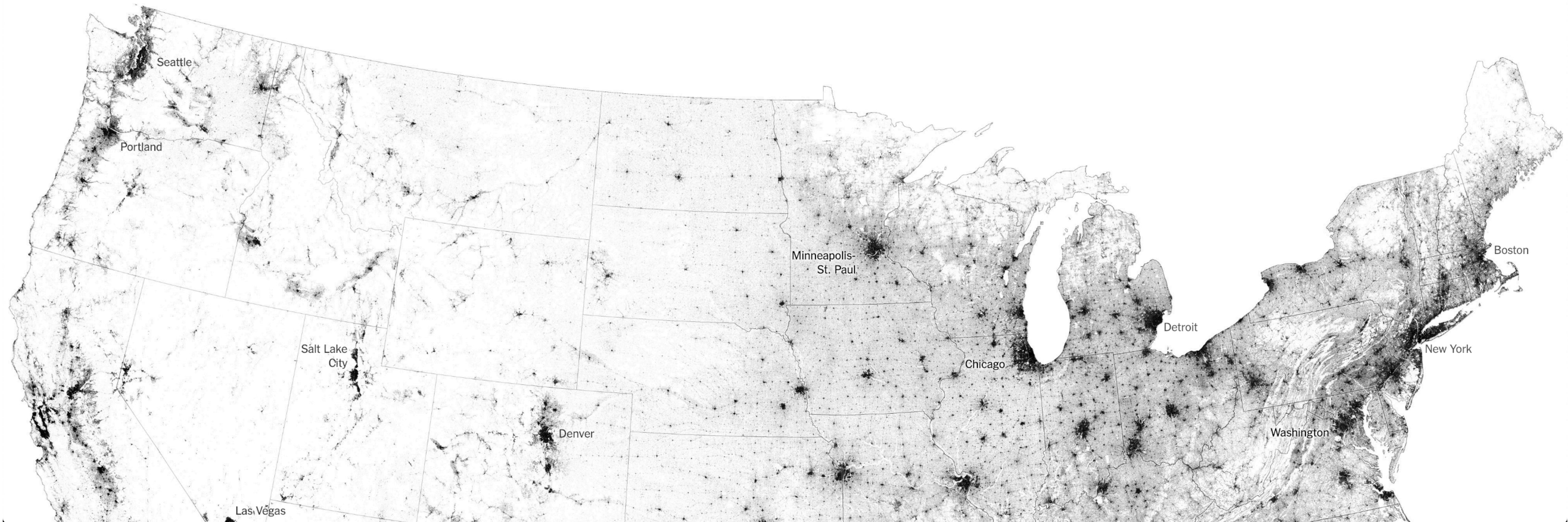
# Key Approaches: **Exploratory Data Analysis**



# Key Approaches: Focused Graphics

## HISTORY MADE APPARENT

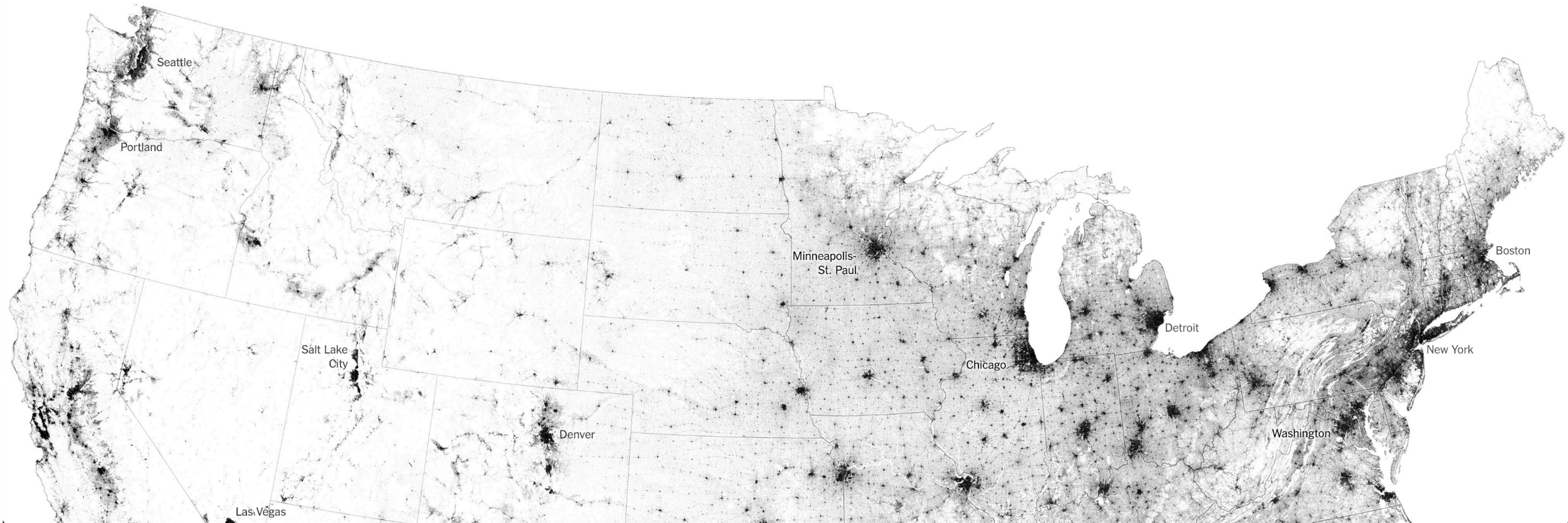
The nation's expansion shows itself: The clustered development of the original colonies flowed west, with scattered cities and towns linked, like beads on a string, by rivers, highways and railroads.



# Key Approaches: Focused Graphics

## HISTORY MADE APPARENT

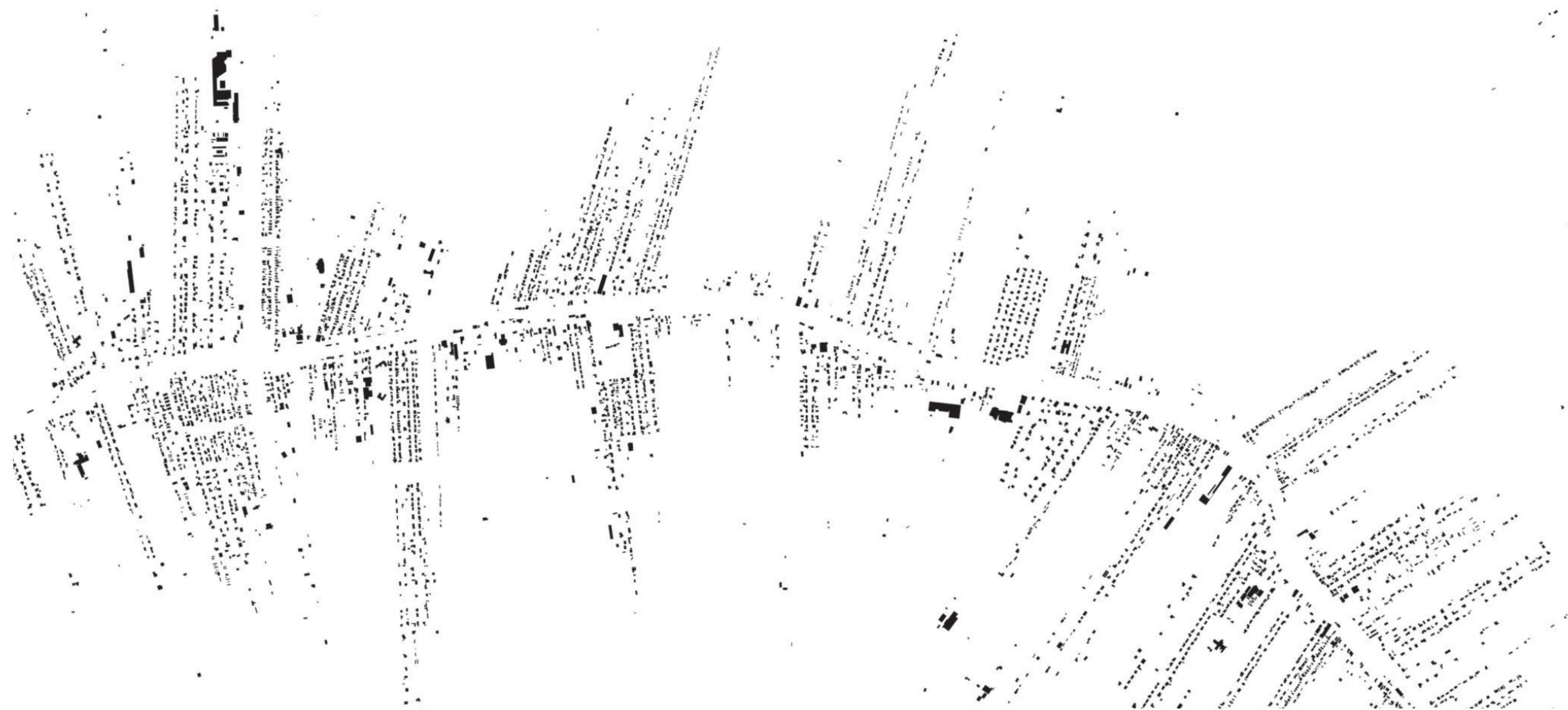
The nation's expansion shows itself: The clustered development of the original colonies flowed west, with scattered cities and towns linked, like beads on a string, by rivers, highways and railroads.



# Key Approaches: Focused Graphics

## TRACES OF DISTANT CULTURE

**South of New Orleans** This arrangement of buildings along a narrow spit of land on either side of a Louisiana bayou shows the imprint of the region's history under France: "long lot" development, which stretched skinny holdings laterally away from important waterways. Geography shapes settlement, but culture does, as well.



# Key Approaches: Focused Graphics

## GROWTH ALONG THE GRID ...

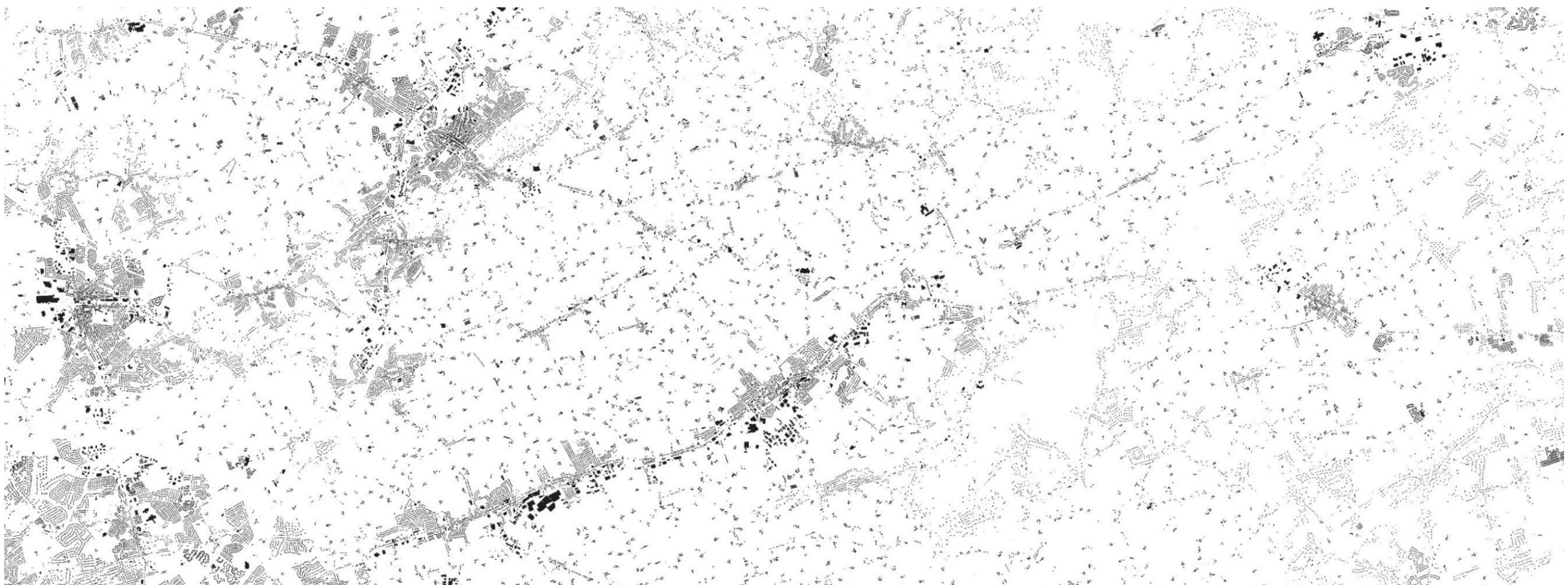
**Near Flint, Mich.** In many parts of the country, we live on a grid: a checkerboard that can be traced to Thomas Jefferson's ideas. He wanted to plan the development of lands taken from Native Americans. The regular network of squares, a half-mile to a side, transformed the wildness of the ancient lands into a landscape as regular as a page of graph paper — and which can be discerned from space.



# Key Approaches: Focused Graphics

... AND OFF IT

**East of Lancaster, Pa.** Some areas seem to grow and develop as naturally as ivy. Unlike places such as the Flint area — with its carefully plotted grids — places like the landscape east of Lancaster, Pa., have a long history of organic settlement.

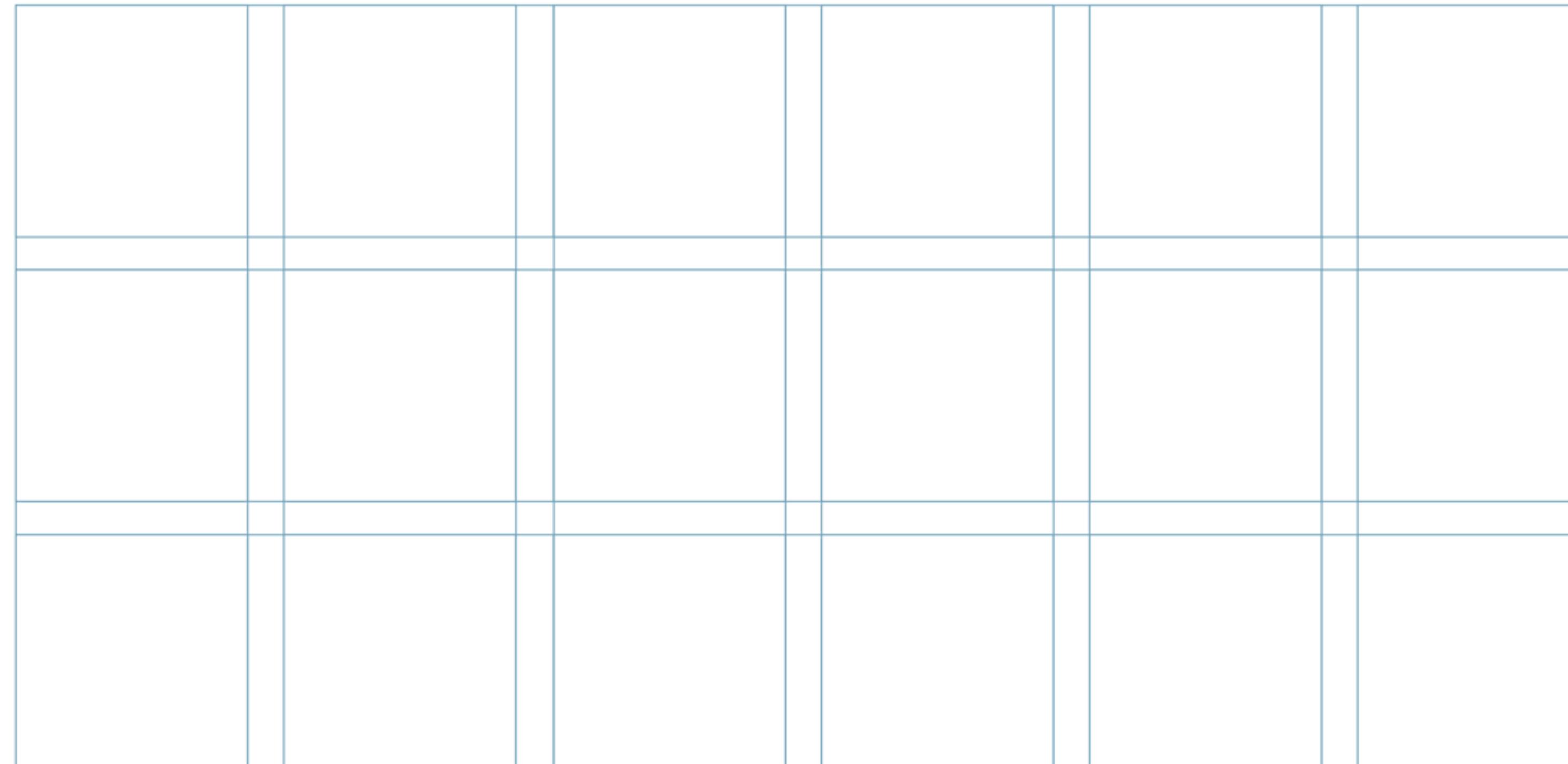


1. Approaches to **Digital Storytelling**
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3. Studio: **Interaction** in D3.js

# Practices

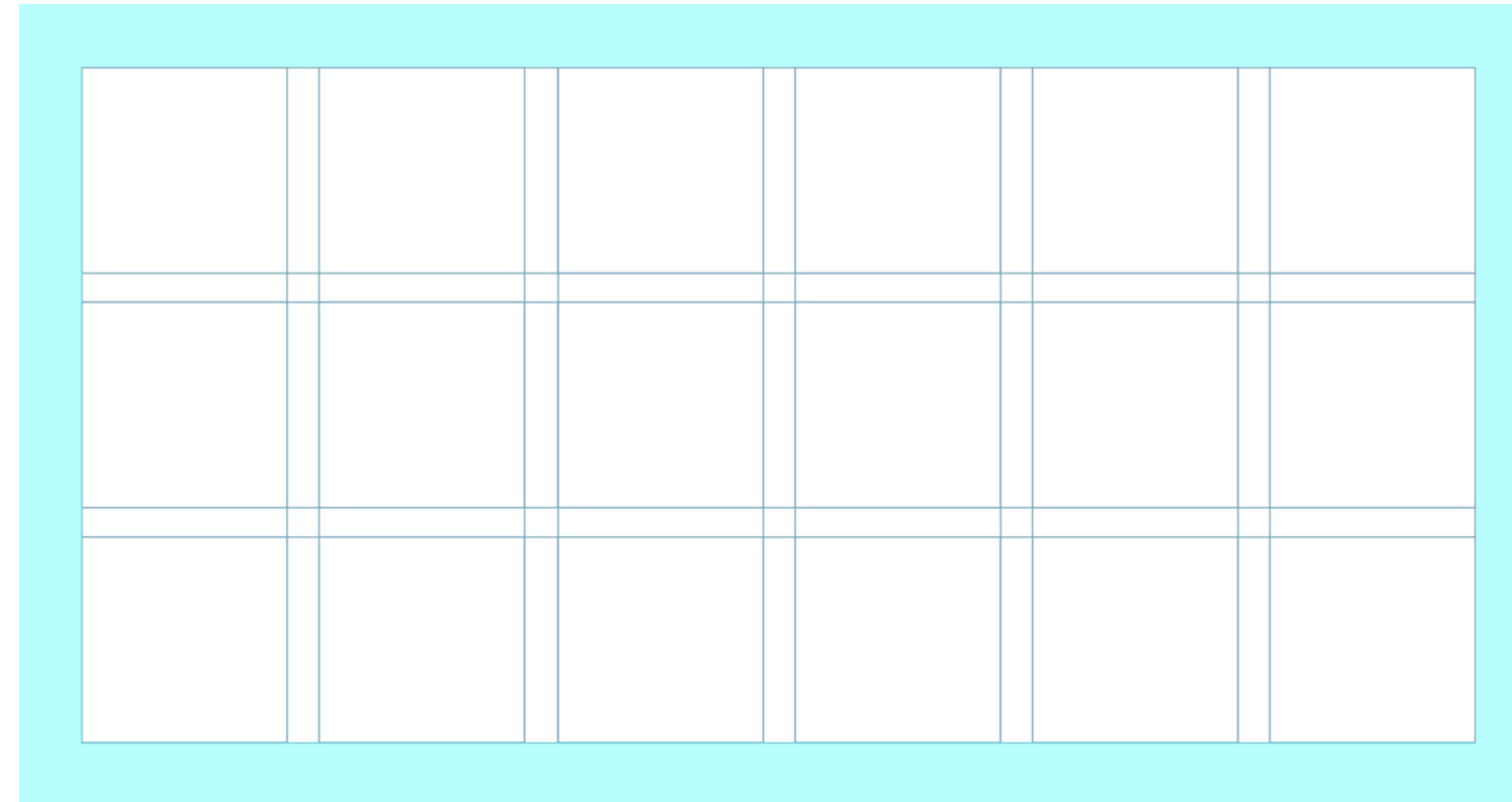
- Layout and Grid Creation
- Navigation Systems & Media Considerations
- Rough it Out

# Practices: **Layout and Grid Creation**



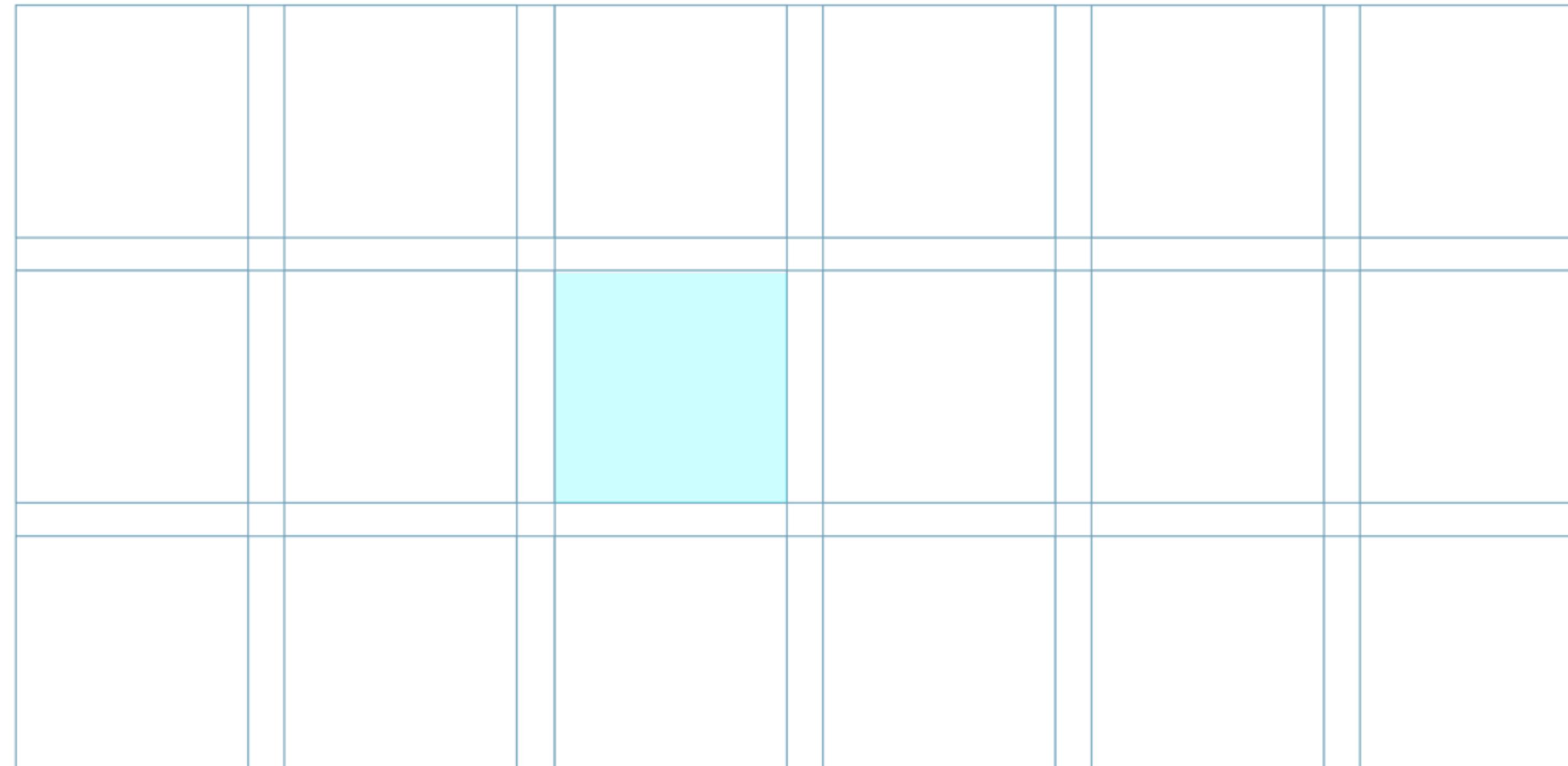
**FORMAT**

# Practices: Layout and Grid Creation



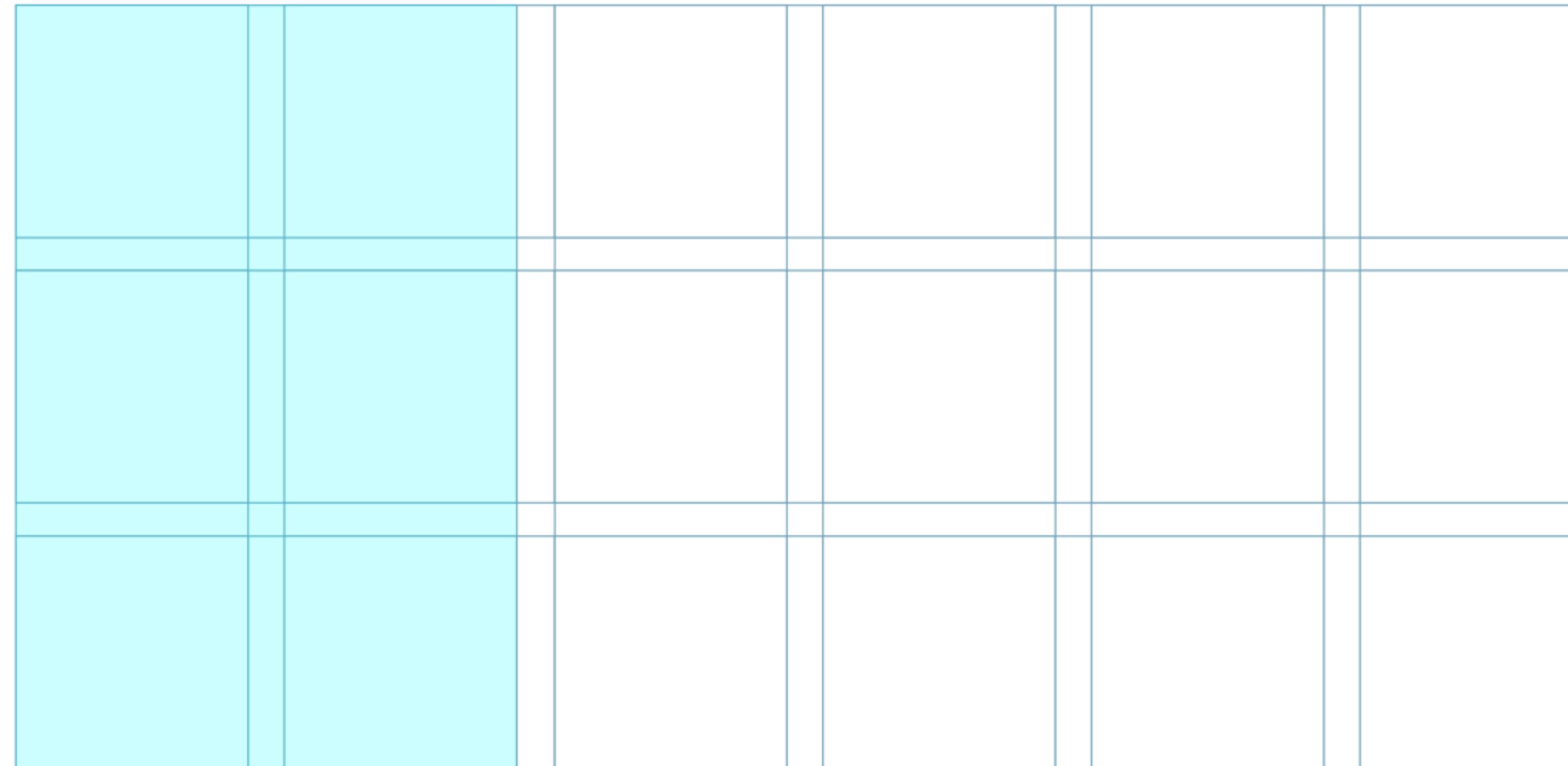
**MARGIN**

# Practices: **Layout and Grid Creation**



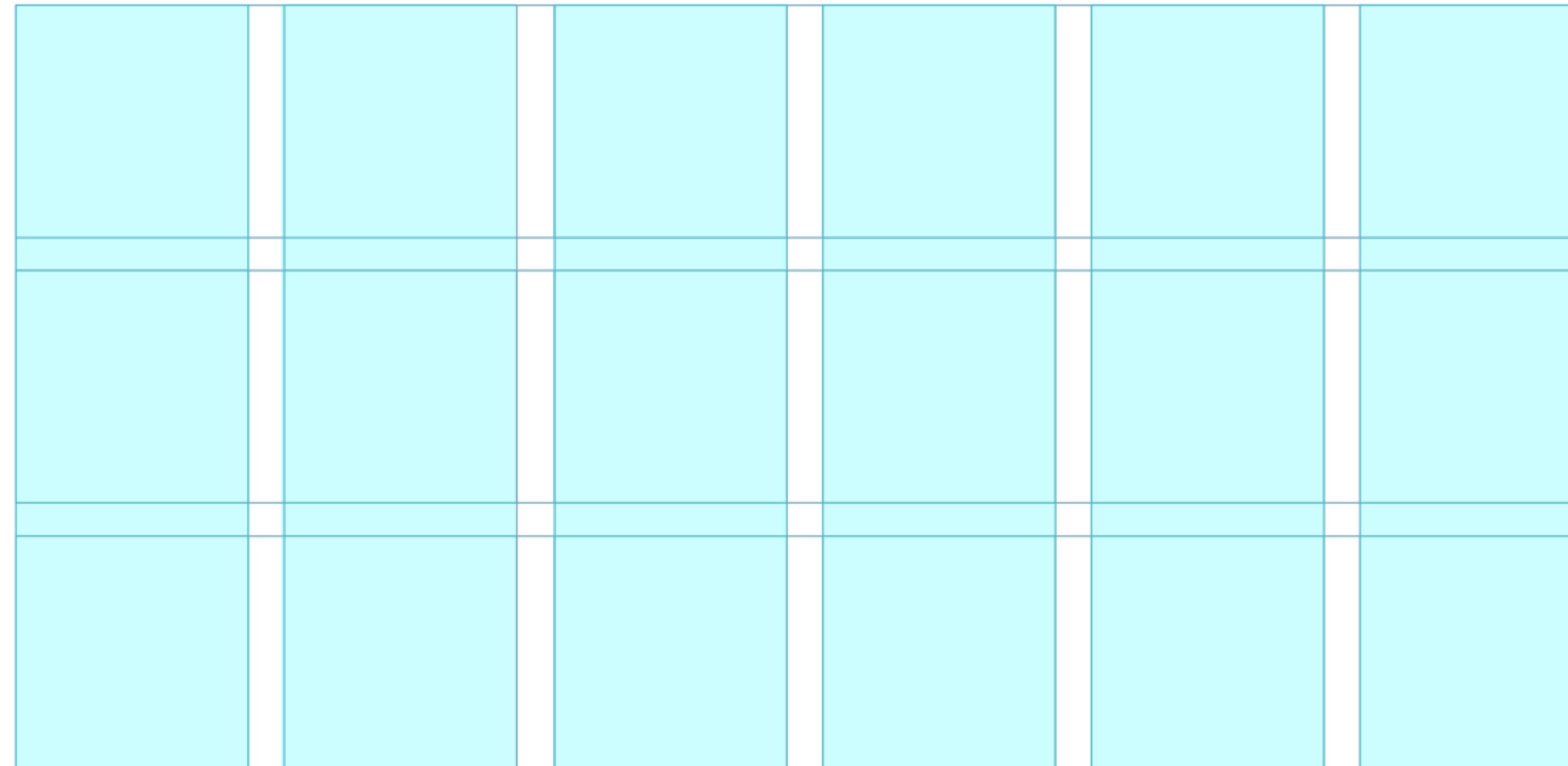
**MODULE**

# Practices: **Layout and Grid Creation**



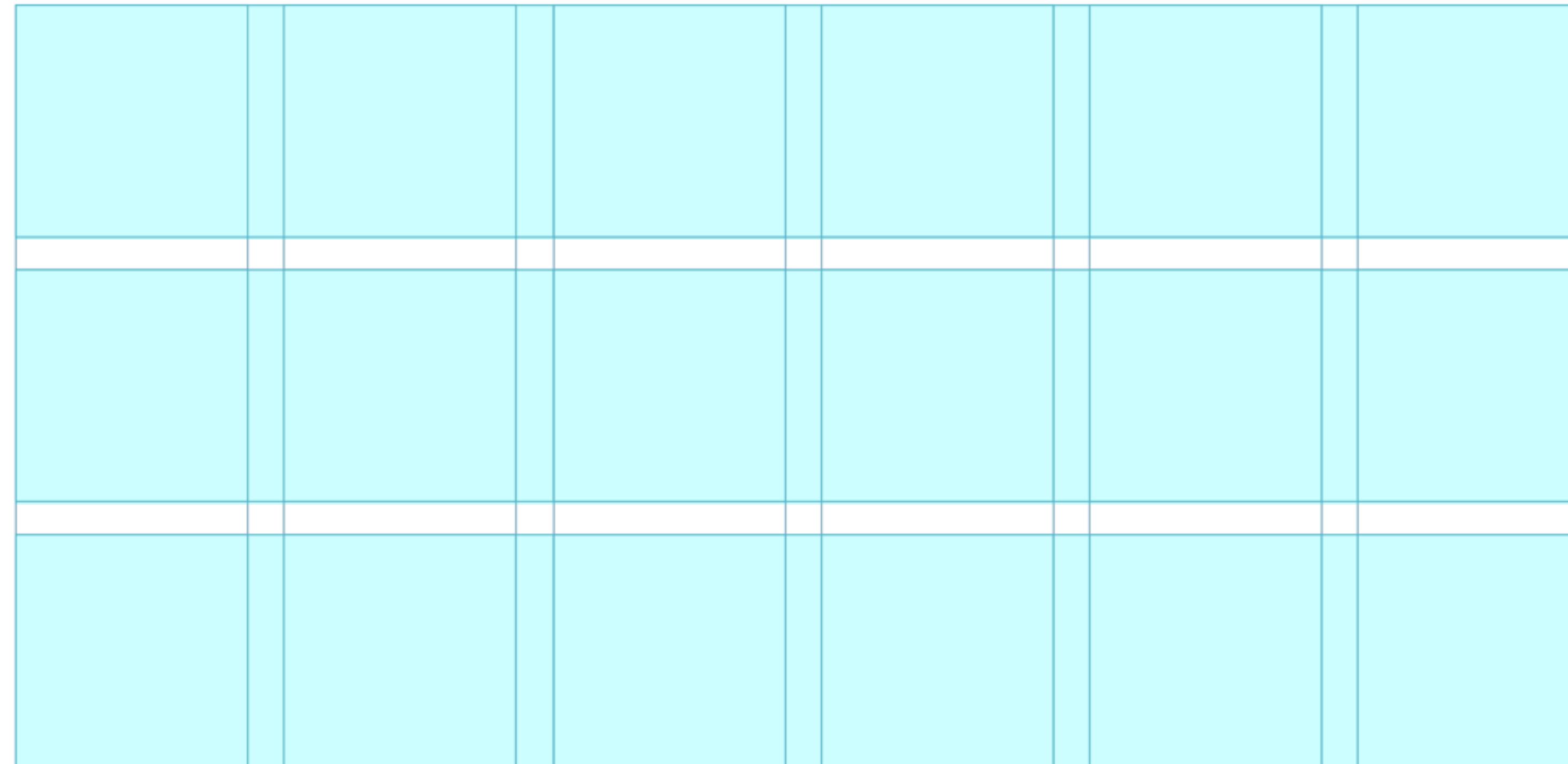
**SPATIAL REGIONS**

# Practices: Layout and Grid Creation



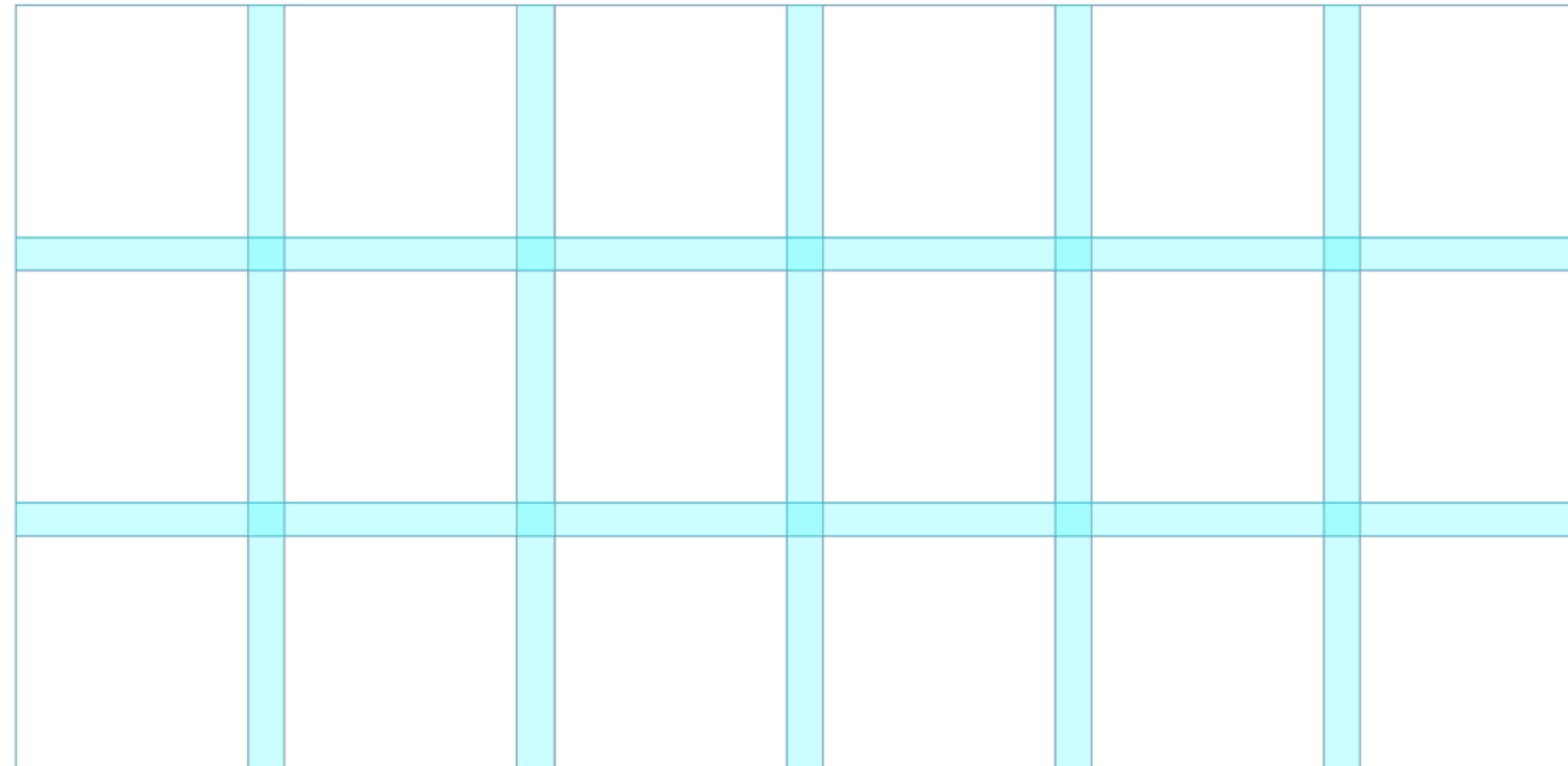
**COLUMNS**

# Practices: Layout and Grid Creation



**ROWS**

# Practices: **Layout and Grid Creation**



**GUTTERS**

A grid system is behind **(nearly) every** print or digital media presentation you encounter.

# Main topic headline

Hatur sin ea eboto tem et om molona ditis doluptate peris parcias se vendias nimus, sit, erapist accusa porecto reptur? Solenderit dis dole blaudignim voloren imoluptatate optatio nonsequat. Soleseq uunderum re est voluptas a dolorae sectia.

# Large headline

Hatur sin ea eboto tem et om molona ditis doluptate peris parcias se vendias nimus, sit, erapist accusa porecto reptur? Solenderit dis dole blaudignim voloren imoluptatate optatio

Hatur sin ea eboto tem et om molona ditis doluptate peris parcias se vendias nimus, sit, erapist accusa porecto reptur? Solenderit dis dole blaudignim voloren imoluptatate optatio nonsequat

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# foodie Pro

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Search



## BAKE YOUR CAKE FROM SCRATCH, NOT YOUR BLOG.

01/05/17 / By Shay Becks / 8 Comments



### WELCOME, Y'ALL!

You've got a divine gift designed to serve the world. It's a special something – small and mighty – that merges passion with purpose, and purpose with joy. This simple yet powerful belief is why I've built my design business out of a desire to serve, and why I feel most alive when I'm taking your business, blog, or product to places that soar. Let's dig deeper →



### FEATURES

Genesis 2.0 + HTML5 Markup + Mobile  
Responsive! Customizer options for color & typography, 6 layout options, Recipe card styling, Widgetized Home & Recipe pages



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**SEARCHING FOR THE  
LOWEST FARE?  
STOP.**

**Continental Airlines**

# The New York Times

Sunday, April 5, 2009 Last Update: 8:09 PM ET

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Celebrations](#)[TRAVEL](#)[Blogs](#)[Cartoons /  
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## Experts Call North Korean Missile Launch a Failure

By WILLIAM J. BROAD  
17 minutes ago

Some experts said the test underestimates the North Korean campaign to come across as a fearsome adversary able to hurl deadly warheads halfway around the globe.

[Read Comments \(298\)](#)

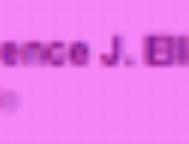
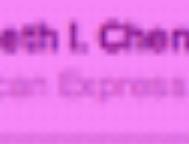
## Obama Calls on U.N. to Punish North Korea Over Rocket

By HELENE COOPER and DAN BILEFSKY 6:46 PM ET

A meeting of the Security Council ended without any action in response to North Korea's missile launch, despite a call from President Obama for a quick response.



## Executive Pay in 2008

[Highest Pay](#)[◀ PREV](#) [NEXT ▶](#)Sanjay K. Jha  
Motorola[PER DAY](#)[\\$286,152](#) [\\$104.4 mil.](#)Lawrence J. Ellison  
Oracle[231,777](#)[\\$84.6 mil.](#)Robert A. Iger  
Walt Disney[139,925](#)[\\$51.1 mil.](#)Kenneth I. Chenault  
American Express[117,130](#)[\\$42.8 mil.](#)

### INTERACTIVE GRAPHIC

## The Pay at the Top

A compensation research firm compiled data reflecting pay for 200 chief executives at 198 public companies that had revenue of at least \$6.3 billion. [Related Article](#)

New G.M. Chief Doesn't Rule Out Bankruptcy  
By A.G. SULZBERGER 1:56 PM ET

Fritz Henderson said he felt confident in General Motors

**THIS LAND**  
A Shop of Motley Flavors Is Gone, but Not All Is Lost

By DAN BARRY 6:02 PM ET  
When a fire

## OPINION » Op-Eds: Obama's European Tour

A. A. Gill: Class Lessons in England

Christoph Peters: Back to Normal in Germany

Amélie Nothomb: Envy in France

**SPORTS »****WOMEN'S TOURNAMENT**

After Passing on UConn, Appel Stands in Its Path

Stanford junior Jayne Appel stands directly in the path of a perfect season

for the No. 1 seeded Huskies.

The Quad: Previewing the Women's Final Four

**Big East Goes South**

Michigan State defeated Connecticut

and North Carolina beat

Villanova to reach the championship game in Detroit.

Brackets: [Men](#) | [Women](#)

- Rich: C.E.O. Guillotine
- Comments (545)

- Kristof: Family Planning
- Video: Haiti

- Friedman: Obama's Bet

- Dowd: The First Shrink

- Editorial: Unemployment

- Schott's Vocab

**BUSINESS »**

Executives Took, but the Directors Gave

The corporate boards that approved steadily swelling

paydays for C.E.O.'s are starting to come under scrutiny.



**The New York Times**  
**Small Business**  
GO ►

# Practices: **Navigation Systems & Media Considerations**

- Scroll
- “Play” button
- Filters and UI controls

# Practices: Navigation Systems & Media Considerations

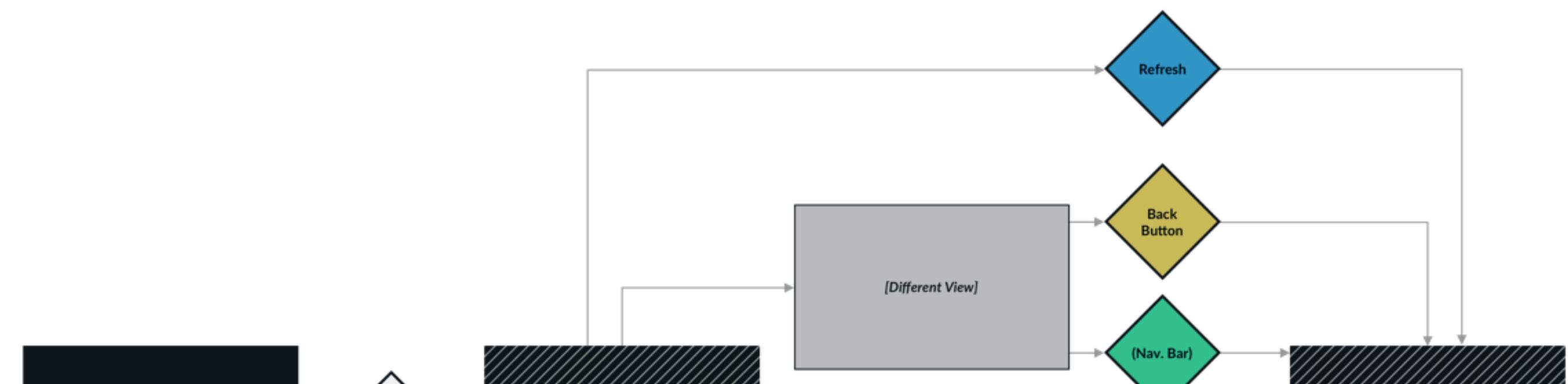
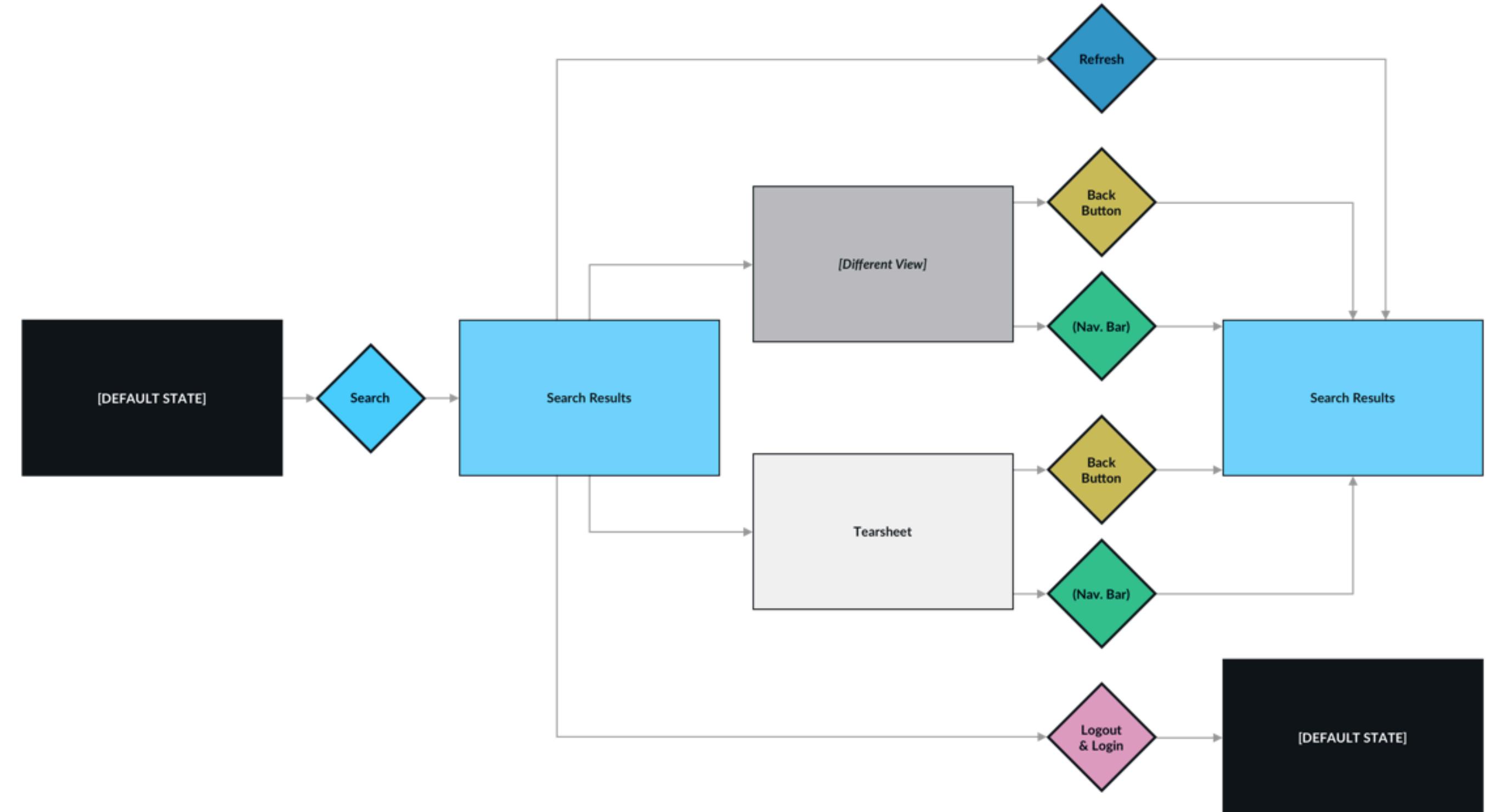


## Practices: **Rough it Out**

- Whiteboard
- Flows
- Rough Sketches
- Usability Testing
- Iteration



# Practices: Rough it Out





1. Approaches to **Digital Storytelling**
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3. Studio: **Interaction** in D3.js

Studio

- Scales
- Color
- Loading Data

[https://github.com/emilyfuhrman/  
datavis\\_design/blob/master/2019\\_Spring/  
Studios/05\\_Interaction\\_in\\_D3.md](https://github.com/emilyfuhrman/datavis_design/blob/master/2019_Spring/Studios/05_Interaction_in_D3.md)

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