### **HCI:**

Type, Hierarchy, Design Patterns





**Before We Wrote** 

# We told stories with our voice





### Spoken word has...

• Interaction: Ask a question

• **Spacing**: Comma, Period, Pregnant pause

• Weight: Volume

• Color: Intonation

### Stories have...

• **Structure**: A story arc

• **Navigation**: Narrative

Winston Churchill at The Whitehouse 1943





# We started to write things down

Linearly, on big things



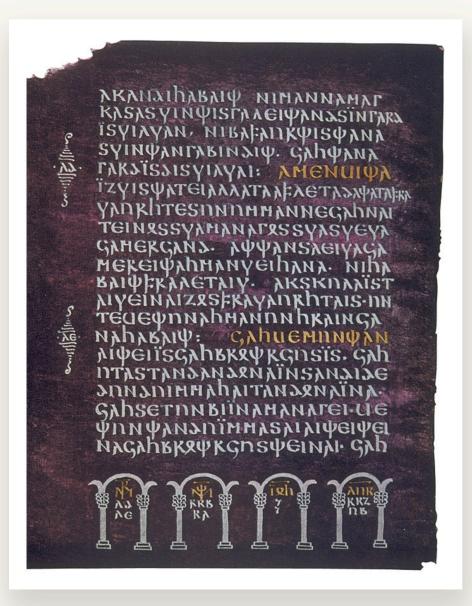


# We started to compact and structure the medium.

### Codex

- Portable
- Easily access large amounts of information
- Search





# Pages became a thing

### Discrete units of information with uniform characters

Code Argenteus (circa 6th century)

Type is a uniform Gothic Alphabet

Silver ink, purple vellum pages

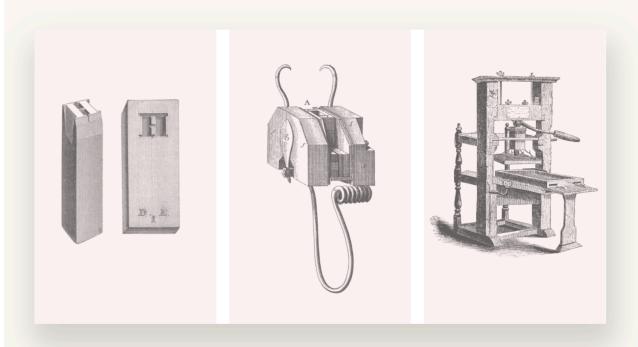




### We mechanized this uniformity with Movable Type

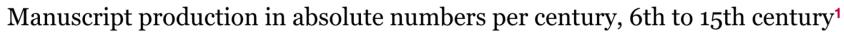
Bi Sheng introduced wooden moveable type blocks (1041 AD)

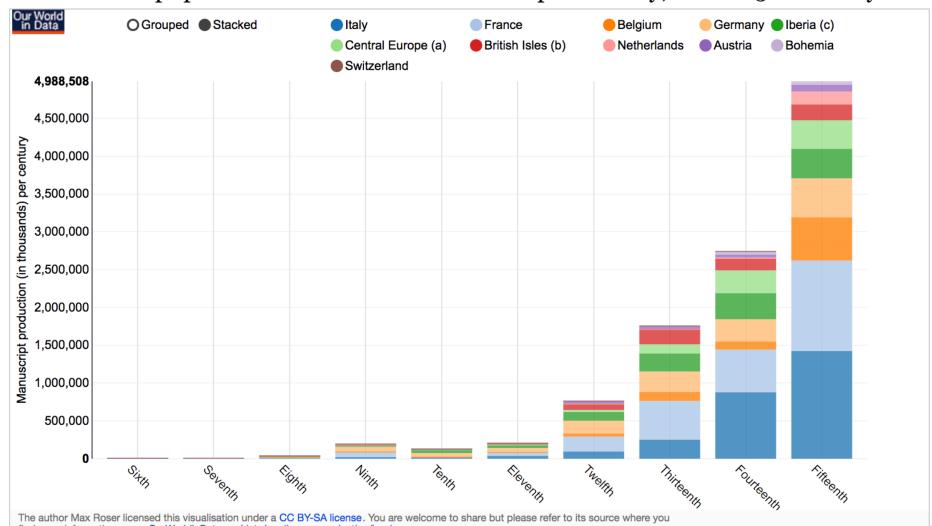




## Gutenberg figured out how to mass produce it.

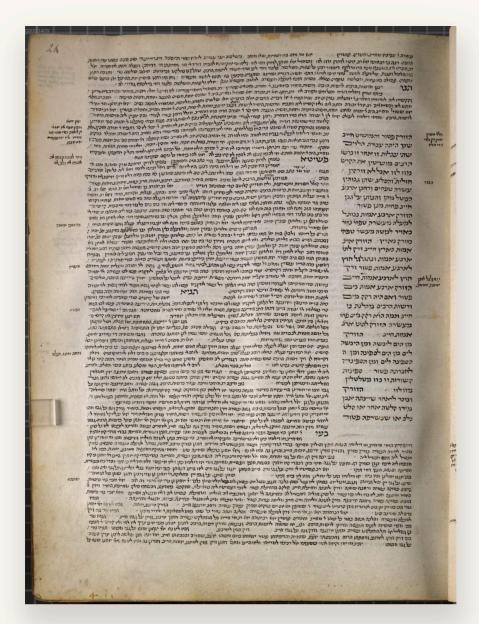
- Punch and Matrix
- Re-usable Mold
- Wooden Press and Oil Inks





find more information: www.OurWorldinData.org/data/media-communication/books

Data sources: Buringh and Van Zanden (2009)



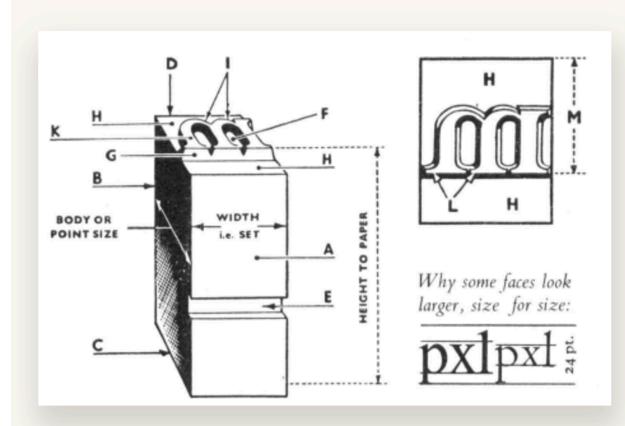
## We started structuring our pages to codify meaning

Talmud captures what was once oral Scholarship.

Codifies numerous points of views on teachings with layout.

(Babylonian Talmud 1342)





Type and Layout artifacts remain in our design systems today



### **Understanding type**

Rank these typefaces point size small --> large

Cornell big red in hex is #B31b1b

Cornell big red in hex is #B31b1b

Cornell big red in hex is #B31b1b





Ascender Line



Descender Line

Anatomy of a typeface



Cornell big red in hex is #B31b1b

Cornell big red in hex is #B31b1b

Cornell big red in hex is #B31b1b

Relationship of x-height to bounding box affects how a type is optically sized

Type size is not optically equivalent



Cornell big red in hex is #B31b1b

Cornell big red in hex is #B31b1b

Cornell big red in hex is #B31b1b

### How to classify Type

- Serf
- Sans Serif
- Slab Serif



# Cornell big red regular weight Cornell big red semi-bold Cornell big red bold Cornell big red italic

# This is One Typeface with Multiple Fonts

In different weights and styles



# Cornell big red regular weight Cornell big red semi-bold Cornell big red bold Cornell big red italic

### Bold is a weight

Use **B** carefully. You might not get the real font. In CSS Font-Style.

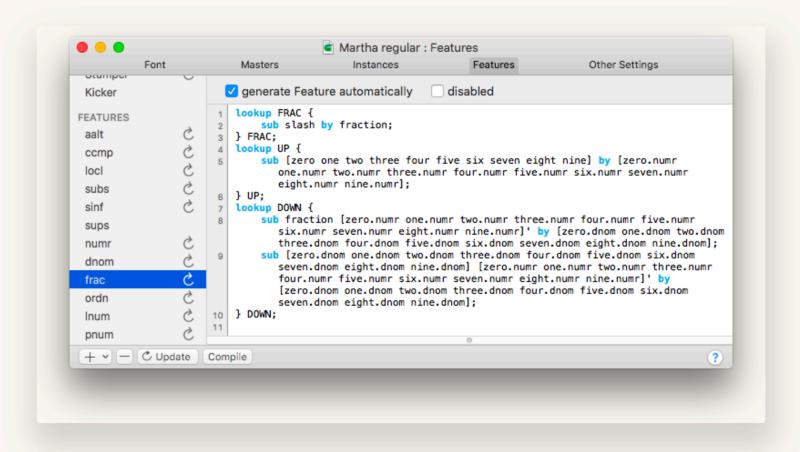
### Italics vs Oblique

Careful with you use the **I.** In CSS Font-Style



### Fonts are software

You need a license to publish like any other software







Acumin Pro

Nimbus Sans

### Alternatives to Georgia

Kepler Std

Chaparral Pro

#### **Favorite fonts**



#### Proxima Nova

Futura PT

Museo Sans

Museo Slab

Chaparral Pro

### Good for longform

Adobe Caslon Pro Minion Pro

### **Font** Resources

Typekit.com Fonts.Google.com GlyphsApp.com



The Typography of Paul Rand with Lewis Blackwell
Shattuck Hall • 7:00 pm
March 30, 2011
Design Lecture Series
Portland State University
Art Department
With wit and wisdom, Blackwell
dissects the patterns of Rand's use of typography throughout his brands, book covers, and advertising work.

### **Creating a Type Hierarchy**



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# Creating a Type Hierarchy

How would you parse this info?



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### **Creating a Type Hierarchy**

# Leveraging Space



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### **Creating a Type Hierarchy**

# Leveraging Weight



Design Lecture Series
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Art Department

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Shattuck Hall • 7:00 pm March 30, 2011

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### **Creating a Type Hierarchy**

### **Leveraging Size**



#### **Design Lecture Series**

Portland State University Art Department

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### **Creating a Type Hierarchy**

# Leveraging Layout

What else could we do?







#### **IIIIIFASTRACK**

- O No trains between 161 St-Yankee Stadium and 205 St
- trains and free shuttle buses provide alternate service

Late Nights, 10 PM to 5 AM, Mon to Fri, Mar 6 - 10

- o service operates between Stillwell Av and 161 St-Yankee Stadium\*.
- Buses operate between Mosholu Pkwy 4 and 205 St.

#### **Travel Alternatives**

TripPlanner +

For service between **161 St** and **Bedford Pk Blvd**, use nearby **4** stations instead. For **205 St**, take a **bus** via Mosholu Pkwy **4**.

- Transfer between 0 and 4 trains at 161 St-Yankee Stadium.
- Transfer between 4 trains and buses at Mosholu Pkwy.

  Obstitute Pure State

Station	Shuttle Bus Stop
205 St	Bainbridge Av at 206 St
Mosholu Pkwy 4	Jerome Av at Mosholu Pkwy
O Station	Nearby 4 Station
Bedford Pk Blvd	Bedford Pk Blvd
Kingsbridge Rd	Kingsbridge Rd
Fordham Rd	Fordham Rd 🖶
182-183 Sts	183 St
Tremont Av	Burnside Av
174-175 Sts	176 St
	Mt Eden Av
170 St	170 St
167 St	167 St

<sup>\*</sup>Coney Island-bound trains skip 155 St, Mar 6 - 10.

Note: Additional 49 service operates between 149 St-Grand Concourse and Woodlawn.

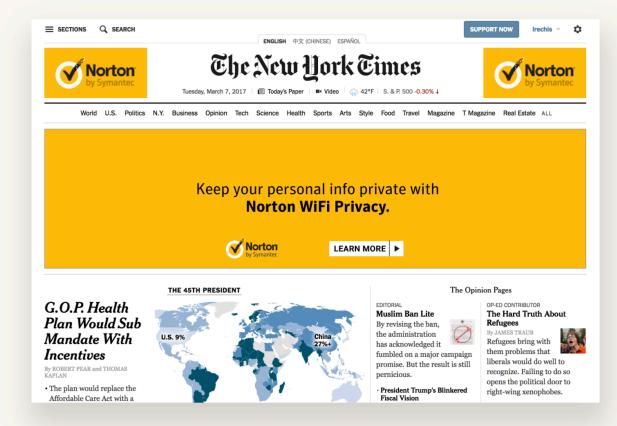
### Can we fix this?

A passion project of many a designer

#### Source:

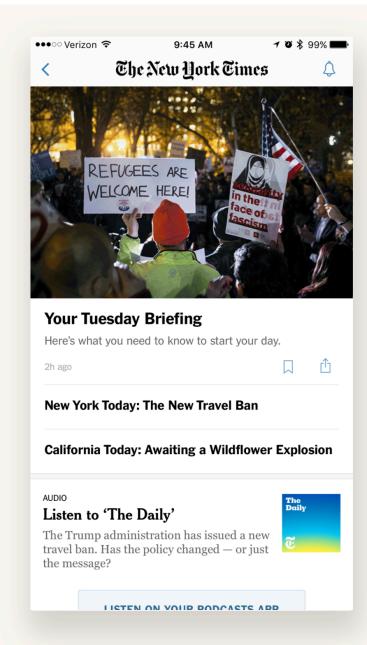
http://web.mta.info/nyct/service/fastrack\_D\_Councorse.htm





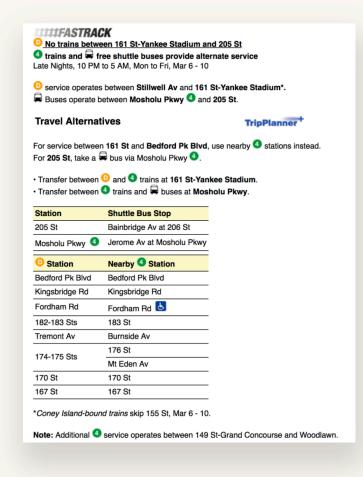
# How does this translate to the Screen?





### Or this screen?





### **In Class Assignment**

### Can we fix this?

- 1. **Define User:** Where? What's the readable distance?
- 2. **Define Medium:** (Poster, Mobile App, Desktop, Kiosk Screen)
- 3. **Establish Hierarchy:** Order the most -> least chunks of information on a separate sheet outline
- 4. **Design:** Create a readable, usable version
- 5. **Submit:** as a pdf

#### Source:

http://web.mta.info/nyct/service/fastrack\_D\_Councorse.htm



### **Decompose Your App**

### Create a Google Slide Doc with the following

- 1. Identify components (take lots of screenshots and annotate)
  - Call out how is typography is being used (Typeface choice, hierarchy of type, body copy vs headline copy vs nav copy)
  - Call out how is hierarchy being used
  - Identify and call out which design patterns are present in the app and where they appear (<a href="http://material.io">http://material.io</a>)
- 2. Make a new Main Screen (Homework)
  - Deconstruct these patterns and remix into a new Main Screen using Material Design
  - Format for Tablet and Mobile

