Visual Design

Human Computer Interaction Research Group Department of Computer Science

Bridging the Gulf of Evaluation

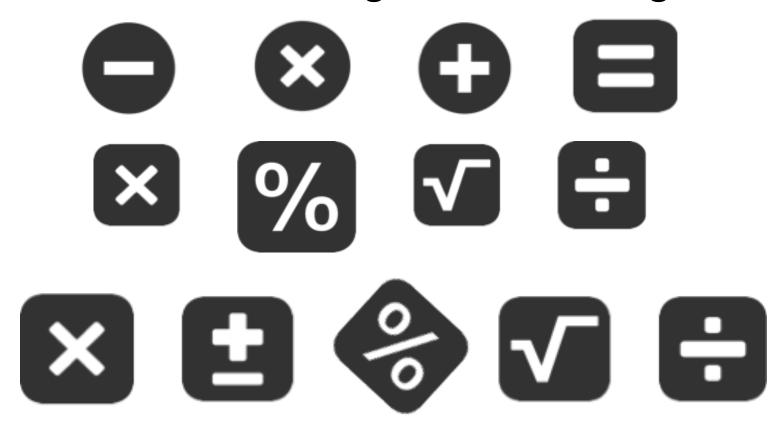
- We saw that in the action cycle we need to help people understand and integrate what they are perceiving and try to make sense of it
- Last lecture we talked about feedforward and feedback for supporting interaction and in particular at the Gulf of Execution
- In this lecture we discuss how to help on the other side
 - Give you basic tools to think about for visual design
 - Discuss creating hierarchies in interfaces
 - Discuss technical implementation of layout on the web

Visual Design

- Most of our systems are visual
 - (We will talk about why this is a problem another day)
- So it makes sense that we can use visual design to help users understand the data
- What types of things can we do? What tools do we have in our toolbox for doing this?

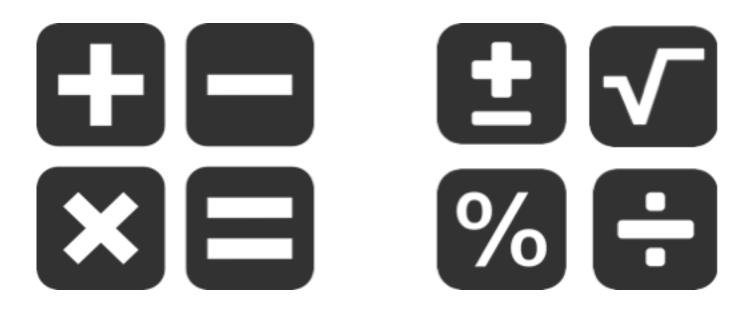
Basic Building Blocks of Visual Design

Which of these things doesn't belong?



Basic Building Blocks of Visual Design

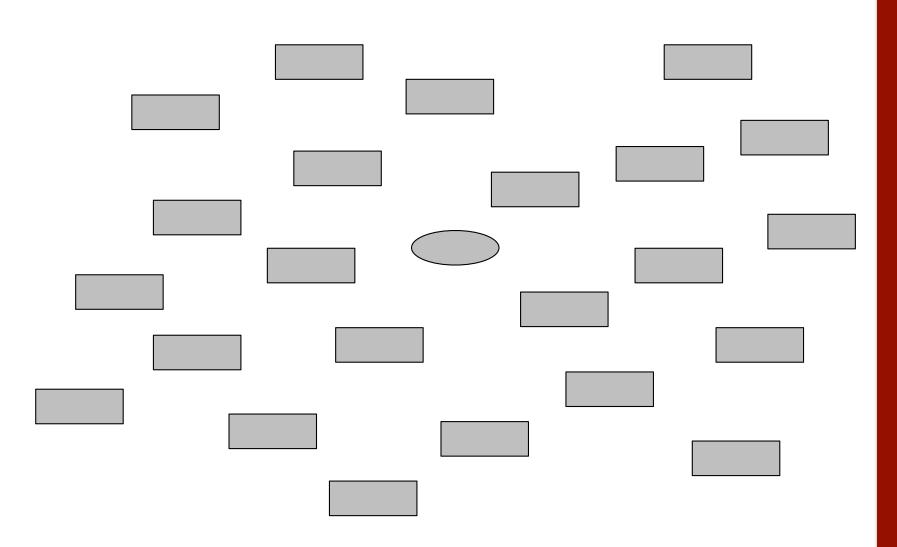
Which buttons belong together?



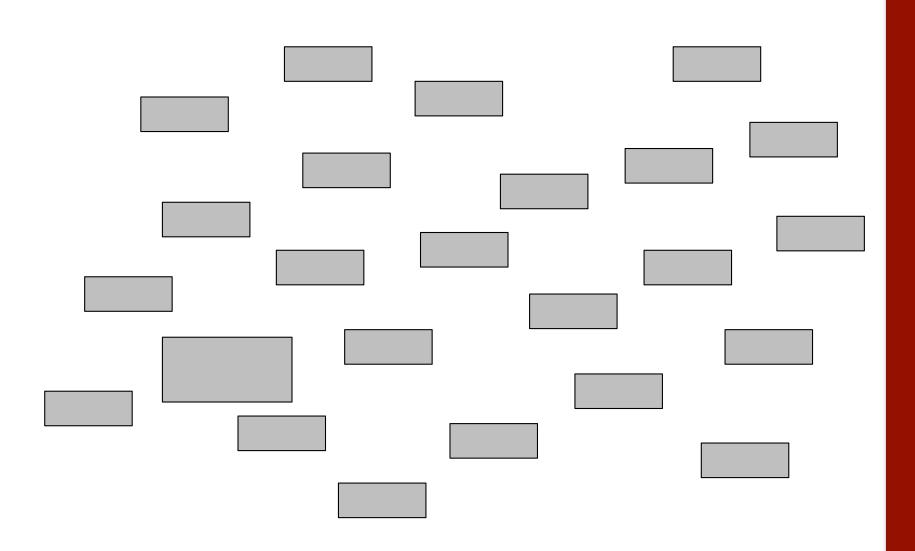
Standing out from the crowd ...

- When things naturally group together, it is our perception/cognition that is trying drawing together things as a whole before looking at the individual parts – we use gestalts to make sense
- Good structure in any design often exploits gestalts of different types to draw together pieces of designs
- As a result we can often make things salient by breaking designs in different ways – our cognition kind of goes "Wha?"

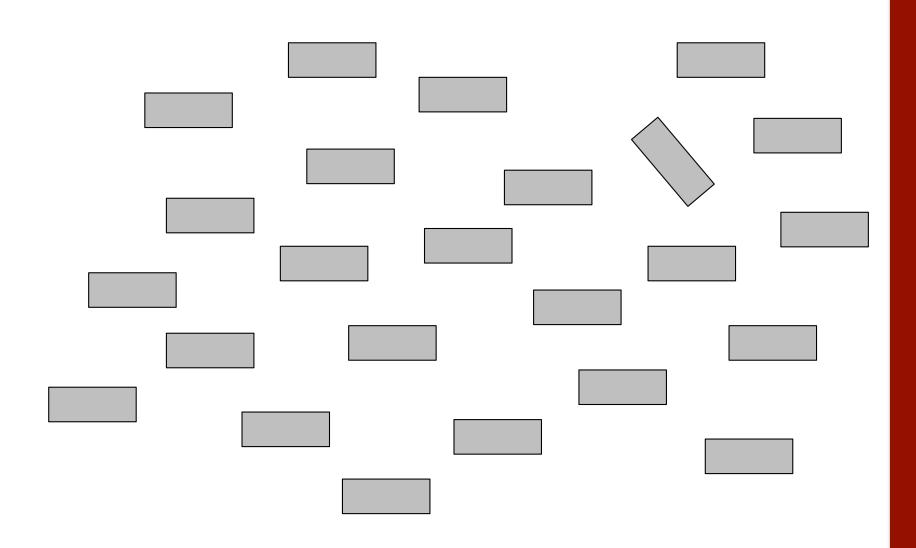
Shape



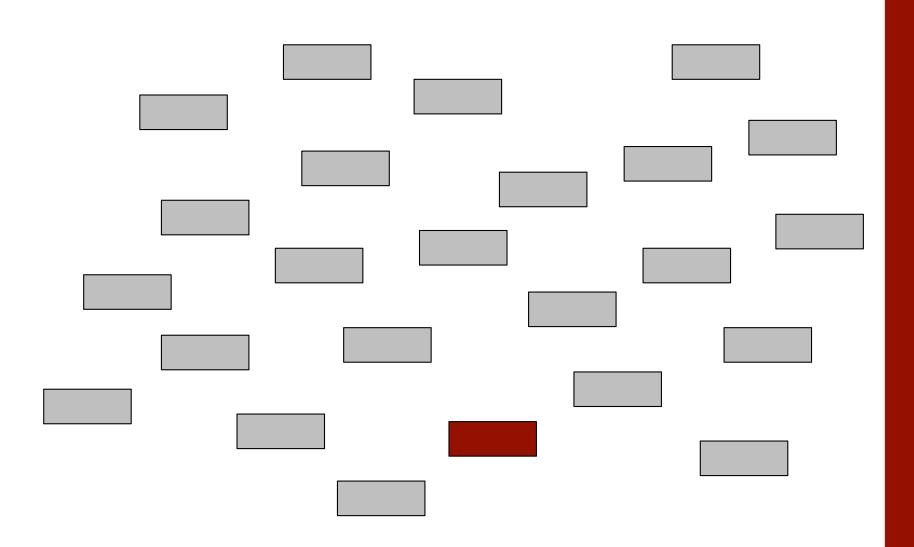
Size



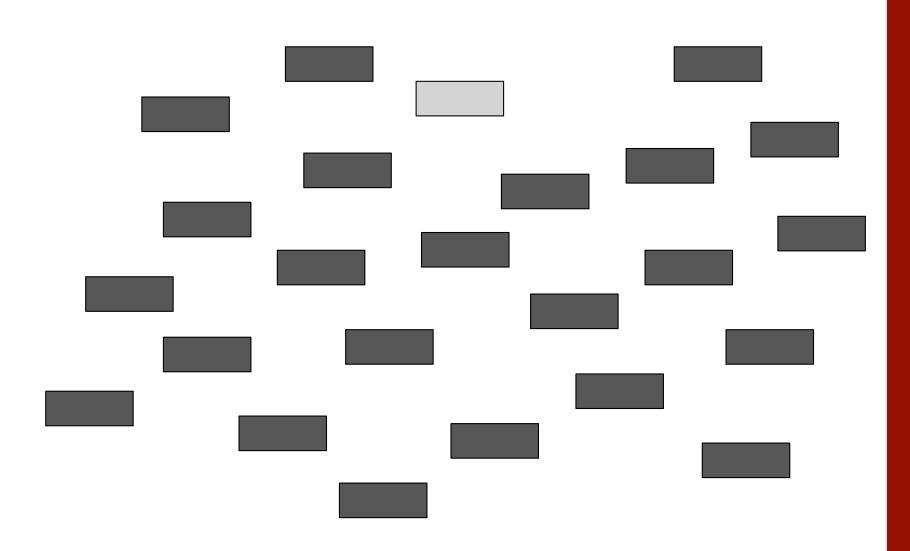
Orientation



Hue



Contrast



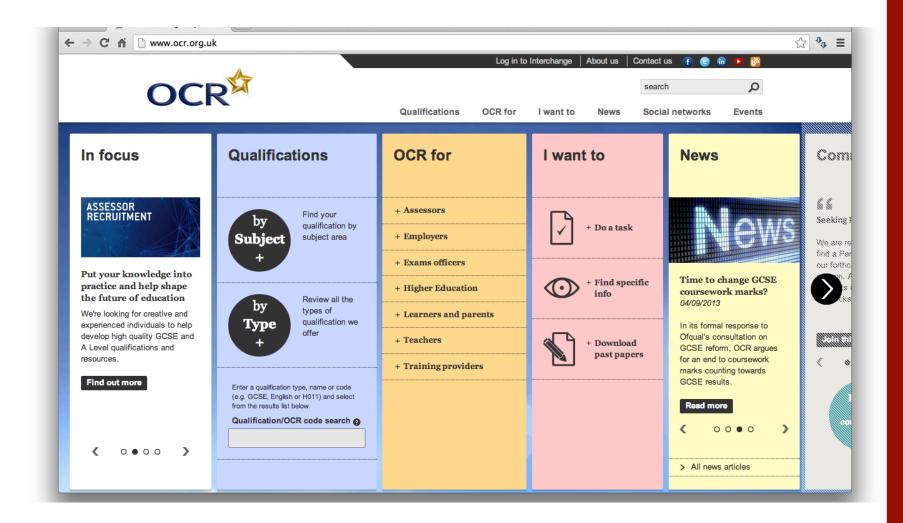
Doing Visual Design

- Sometimes seems like 'intuition' or 'natural talent'
 - Like anything some practice helps
- We need to use our design artefacts to help us with visual design
 - Goals that we know the users will undertake help prioritize proportioning of the interface
 - Scenarios that we have written about how users work help work out ordering and grouping
- You cannot just dive into design without these sorts of artefacts

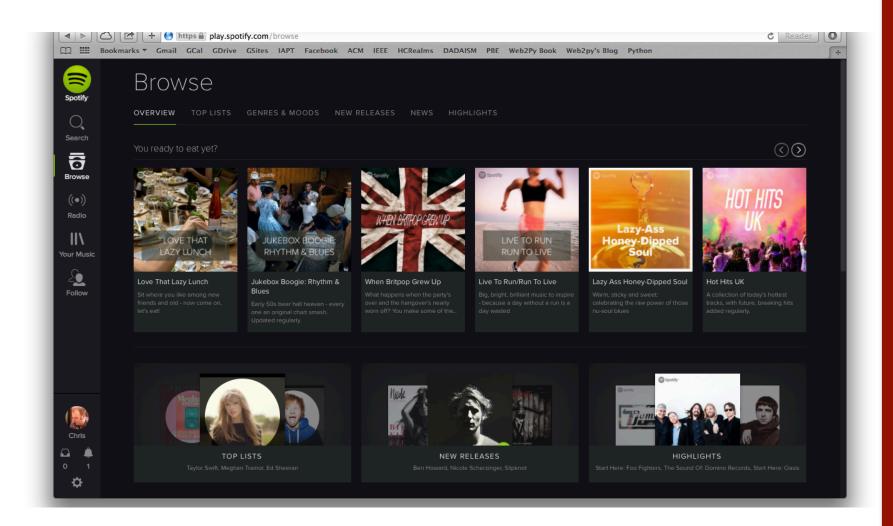
Creating Visual Hierarchies

- From your scenarios, identify those tasks that are most important to have most often – these should dominate the interface
- Identify what information users need to perform those tasks, and then make that information prevalent in the interface
- Simple changes to the above items can help impose order on chaos in your interfaces.

Poor Visual Hierarchy Example

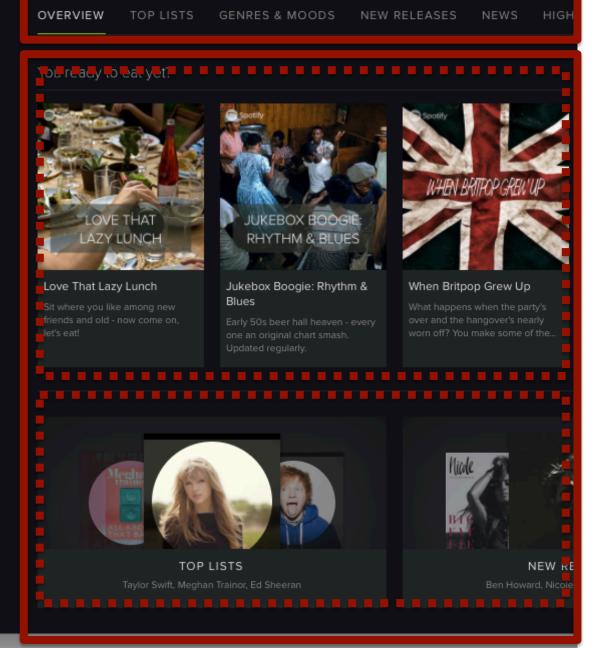


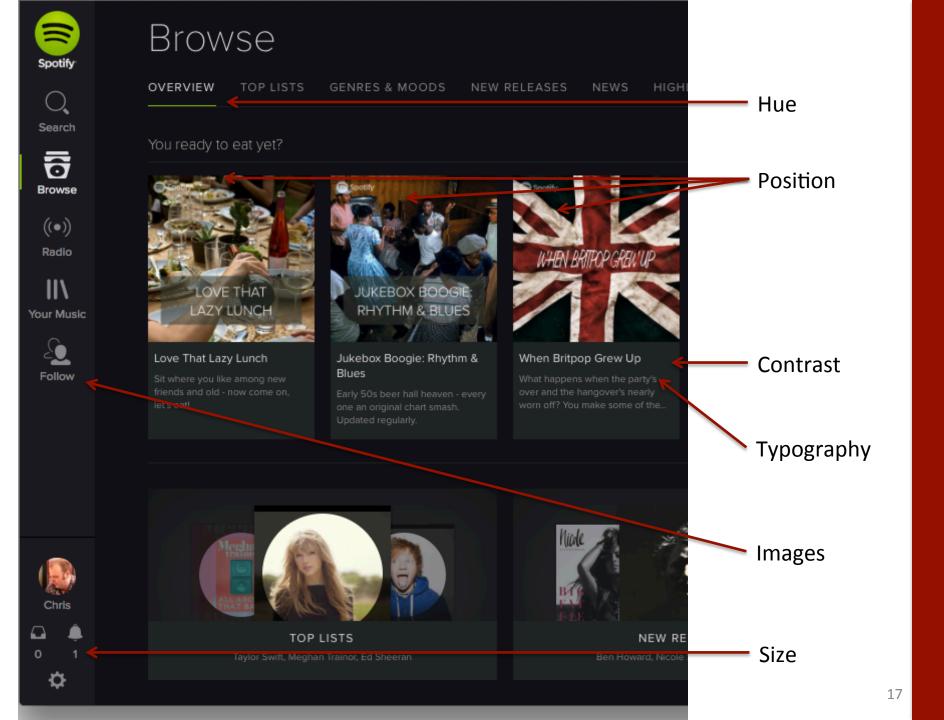
Good Visual Hierarchy Example

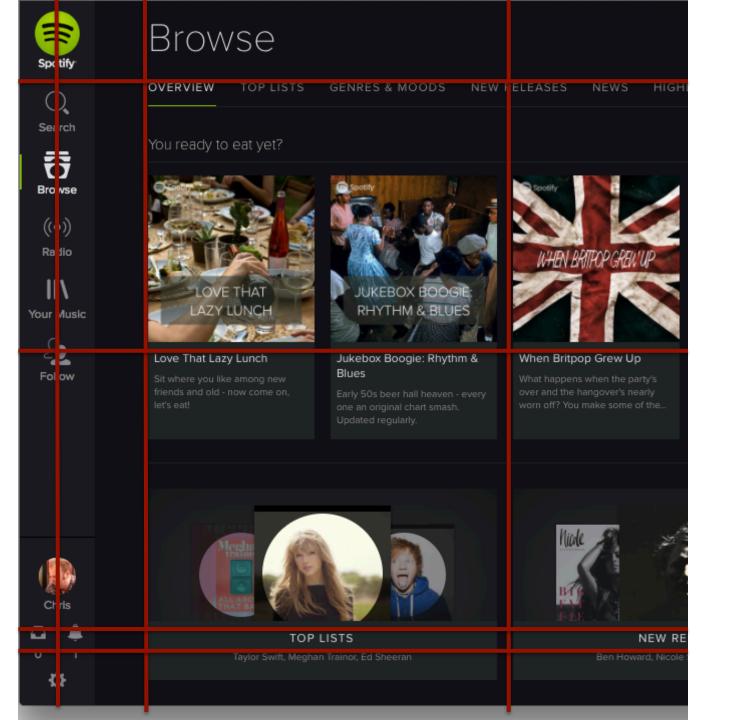




Browse









Browse

OVERVIEW TOP LISTS GENRES & MOODS NEW RELEASES NEWS HIGHLIGHTS

You ready to eat yet?





Love That Lazy Lunch

Sit where you like among new friends and old - now come on, let's eat!



Jukebox Boogie: Rhythm & Blues

Early 50s beer hall heaven - ev one an original chart smash. Updated regularly.



When Britpop Grew Up

over and the hangover's nearly worn off? You make some of the...



Live To Run/Run To Live

Big, bright, brilliant music to inspire

- brause a day without a run is a
day wailed



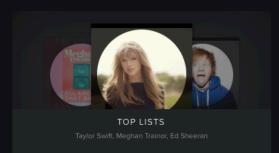
Lazy Ass Honey-Dipped Soul

Warm, sticky and sweet: celebrating the raw power of those nu-soul blues



Hot Hits UK

A collection of today's hottest tracks, with future, breaking hits added regularly.





Ben Howard, Nicole Scherzinger, Slipkno



HIGHLIGHTS

Start Here: Foo Fighters, The Sound Of: Domino Records, Start Heles Oas

Summary

- Hierarchies use size and position to indicate structure on page
 - Alignment of elements edges of boxes, left/right margins of text
- Grouping through similarity and proximity how closely are things put together
- Relationships Symbols and colour of controls
- Good visual structure helps users make sense of what they can do and where to find stuff
- We achieve good visual structure in programming through layout and constraint specifications

Readings

- Visual Design
 - About Face 3 Chapter 14
 - Visual Design Methods in Interactive Applications
 - Jean Vanderdonckt (on website)