

# CREATING BLOCK-PRINTED PERSONAL VISUALIZATIONS

**Tiffany Wun** | Sheelagh Carpendale | Lora Oehlberg

---

University of Calgary

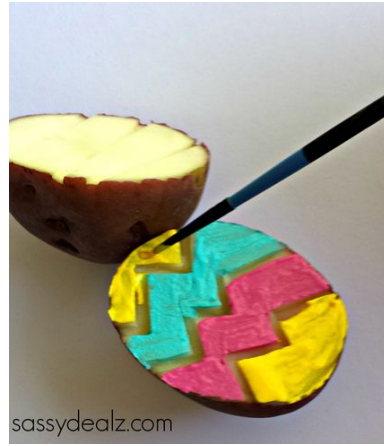
# STUDY PROCEDURE

- ★ Intro to Block Stamps
- ★ Refresher: Mixing Paints
- ★ Intro to Visualizations
- ★ Mapping Data to Visual Properties
- ★ Constructing your Visualization & Workshop Tasks
- ★ Tools & Making Stamps

# BLOCK PRINTING

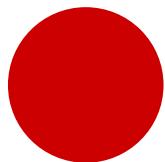


# POTATO & SPONGE STAMPS

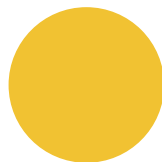


# MIXING PAINTS

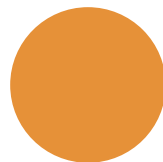
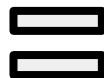
## SECONDARIES



red



yellow



orange



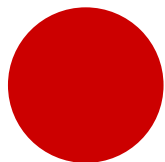
yellow



blue



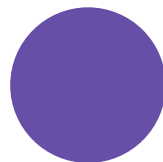
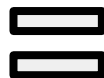
green



red



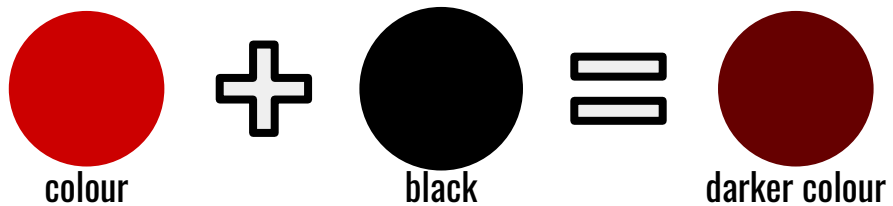
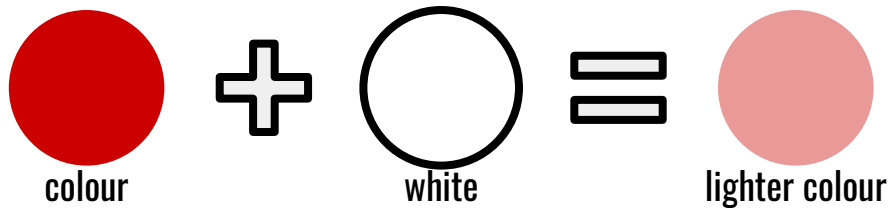
blue



purple

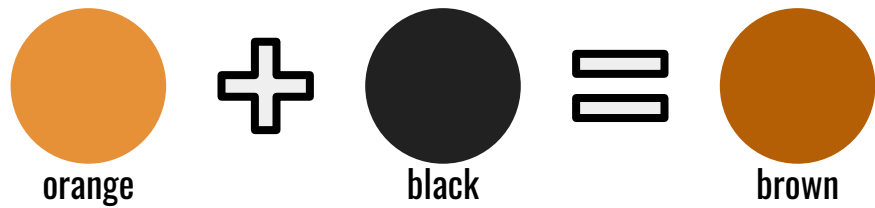
# MIXING PAINTS

## TINTS & SHADES

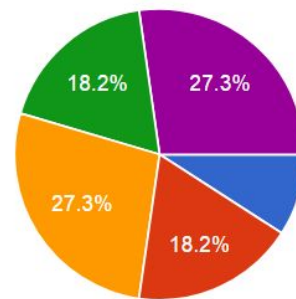
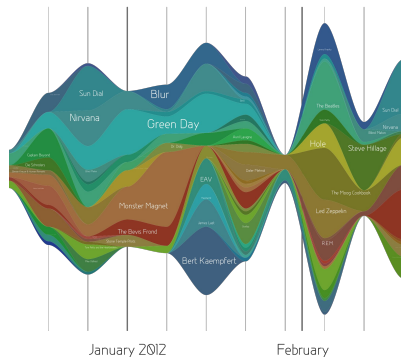
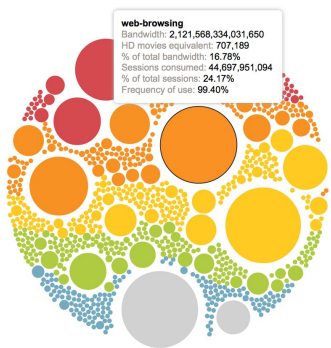
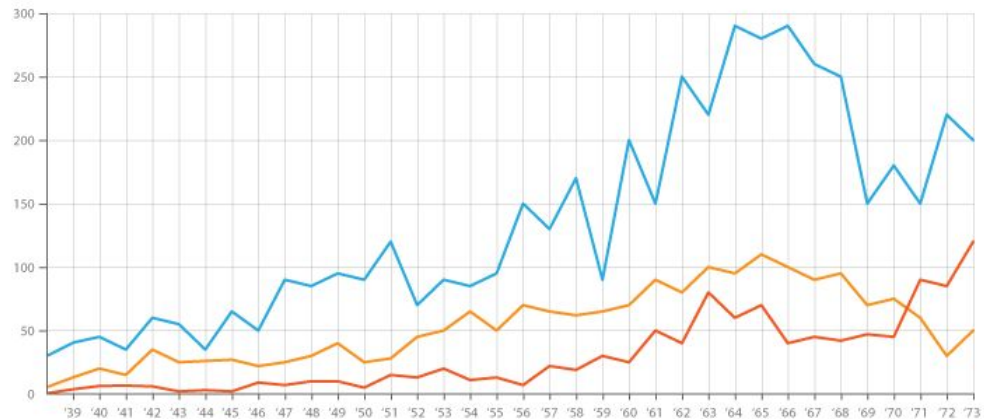


# MIXING PAINTS

## BROWN



# QUICK INTRO TO VISUALIZATIONS





# DATASET

## SAMPLE

Drink	ABV% (alcohol by volume)	Type	Price
Gin	45	Spirit	\$\$
Icewine	13	Wine	\$\$\$
IPA	5	Beer	\$
Absinthe	70	Spirit	\$\$\$



# DATASET

## SAMPLE

Drink	ABV% (alcohol by volume)	Type	Price
Gin	45	Spirit	\$\$
Icewine	13	Wine	\$\$\$
IPA	5	Beer	\$
Absinthe	70	Spirit	\$\$\$



# DATASET

## SAMPLE

Drink	ABV% (alcohol by volume)	Type	Price
Gin	45	Spirit	\$\$
Icewine	13	Wine	\$\$\$
IPA	5	Beer	\$
Absinthe	70	Spirit	\$\$\$



# DATASET

## SAMPLE

Drink	ABV% (alcohol by volume)	Type	Price
Gin	45	Spirit	\$\$
Icewine	13	Wine	\$\$\$
IPA	5	Beer	\$
Absinthe	70	Spirit	\$\$\$



# GIVEN DATASET

Topic: Total spendings over a 4-day vacation

Date	Where	Cost	Type of Spending	How enjoyable
June 1	London	37	Food	**
June 1	London	13	Shopping	***
June 1	London	45	Travel	*
...	...	...	...	...

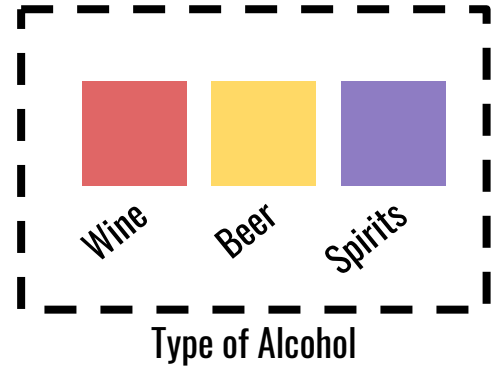
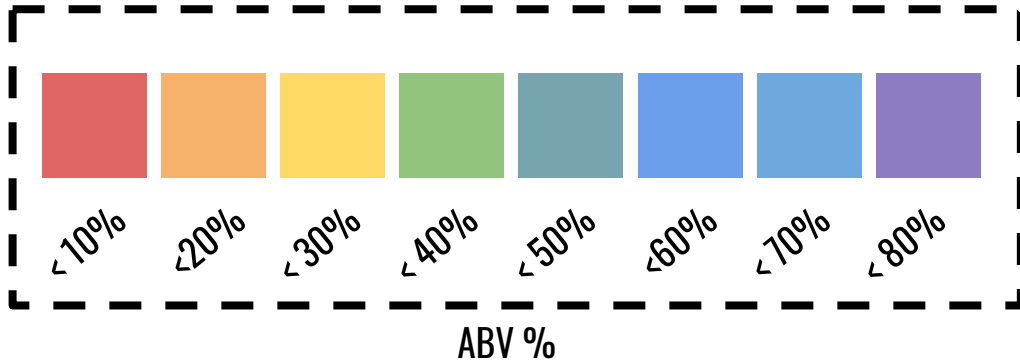


# MAPPING DATA TO VISUAL PROPERTIES

- ❖ Colour
- ❖ Position
- ❖ Size
- ❖ Shape
- ❖ Count
- ❖ Texture

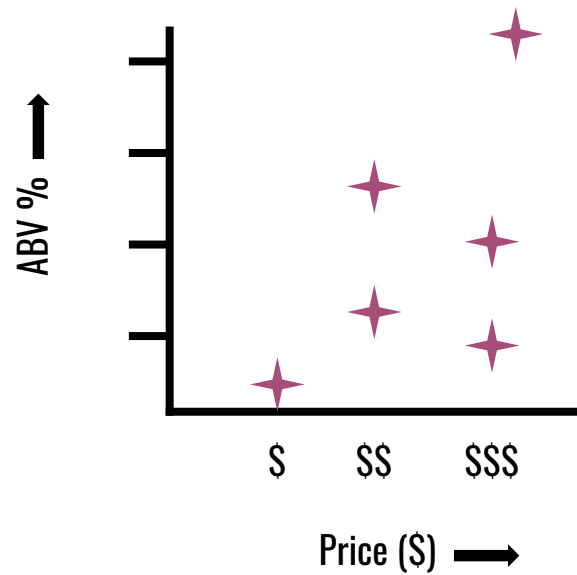
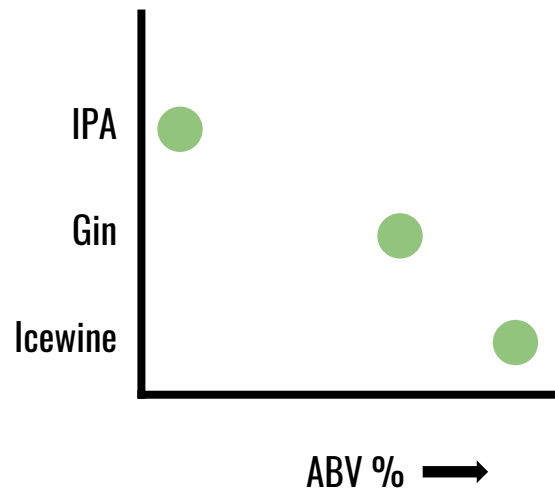
# MAPPING DATA

>> COLOUR



# MAPPING DATA

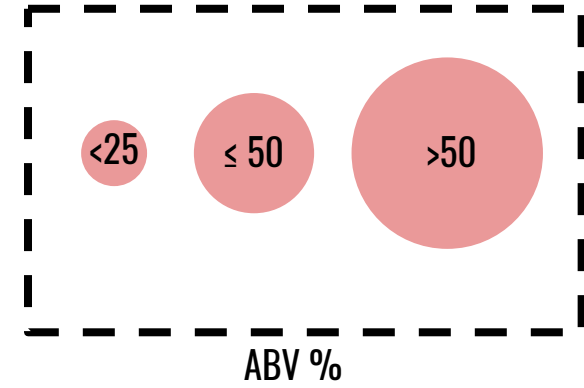
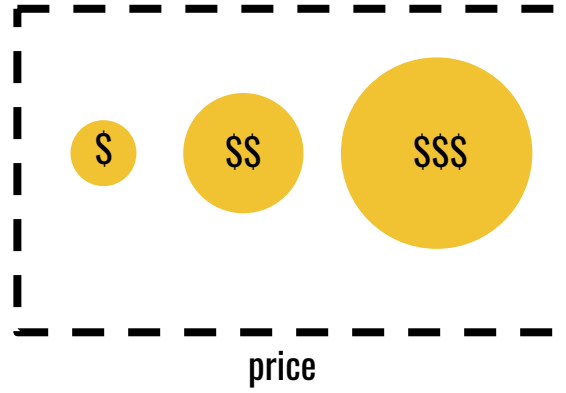
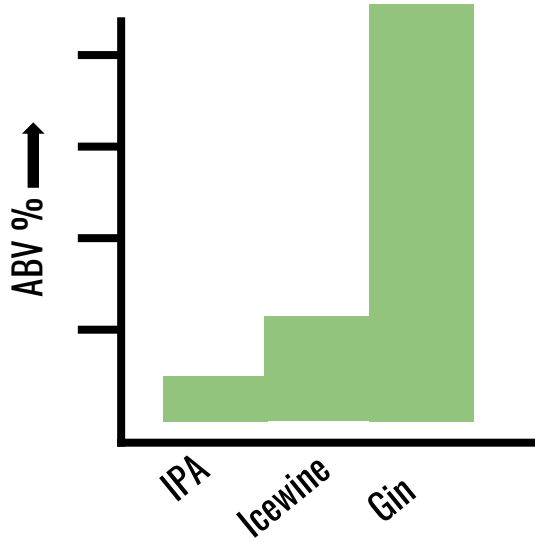
>> POSITION





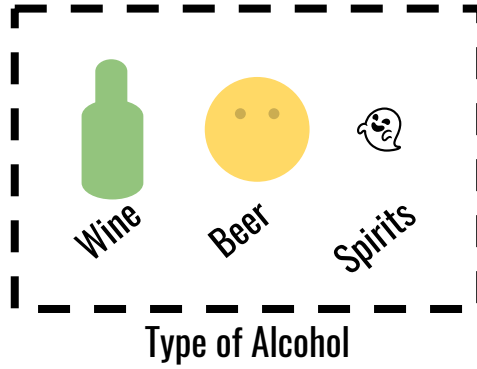
# MAPPING DATA

>> SIZE



# MAPPING DATA

>> SHAPE



# MAPPING DATA

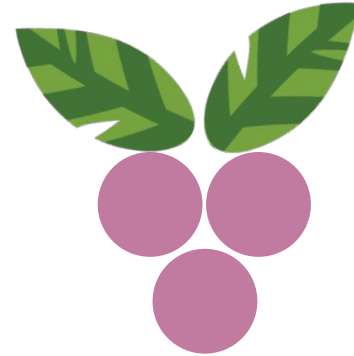
>> COUNT



1 leaf = 5% ABV



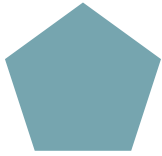
1 circle = 1% ABV



Icewine

# MAPPING DATA

>> COUNT



1 pentagon = 5% ABV



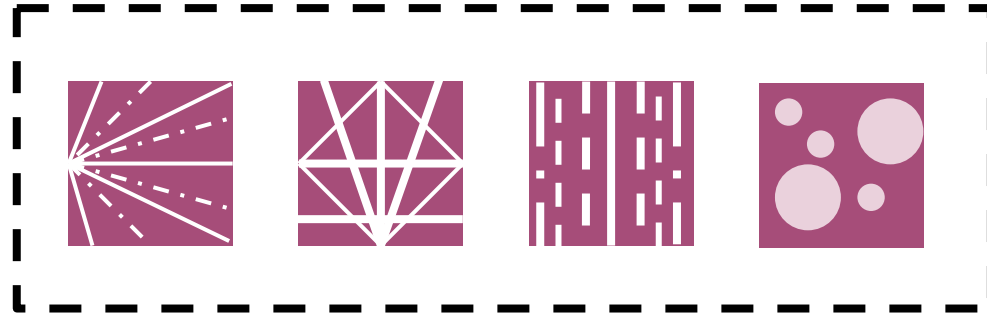
1 triangle = 1% ABV



**Icewine**

# MAPPING DATA

>> TEXTURE



Types of Alcohol

# CREATING A VISUALIZATION

## TIPS AND PROCESS

1. Decide how you want to map your data columns
  - a. Tip: Try sketching out different ideas
  - b. Tip: Combining mappings is a good idea
2. Sketch stamp pattern onto potatoes/stamps
  - a. Tip: Remember to invert the pattern!
3. Paint stamps and press down onto paper
4. Use pen to add labels when done stamping

Goal: Create  
visualizations that  
show the highlights  
of your 4-day trip

# GOAL

CREATE VISUALIZATIONS THAT SHOW THE HIGHLIGHTS OF YOUR 4-DAY TRIP

1. Pick 2+ columns from dataset
2. Make stamps with potatoes/sponges and create your visualization
3. Choose another 2+ columns (can be same or different)
4. Try making other stamps and visualizations



# Think about what stories you can tell from data

**ex.** How much did you like the food, how much you spent on shopping

# GOAL

CREATE VISUALIZATIONS THAT SHOW THE HIGHLIGHTS OF YOUR 4-DAY TRIP

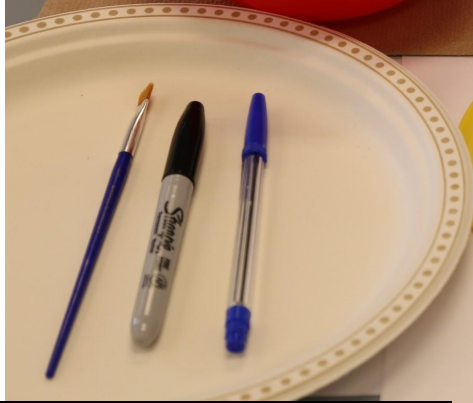
- ★ Making multiple stamps and visualizations is encouraged
- ★ There are more materials
- ★ We want **quantity > quality**.

# TASKS

1. You have 60 minutes to create your visualizations (**quantity > quality!**)
  - a. 5 minutes to sketch ideas
2. Show and tell (45 mins)
  - a. We display your stamps and visualization, and have a group discussion about your thoughts, processes, and what did/didn't work
3. Questionnaire (5 mins)
4. Post interview - share your thoughts about the workshop (**optional!**)
  - a. Booking a separate time (~20 mins)

# TOOLS

**Bowl for Offcuts**



**Paintbrush, Sharpie, Pen**



**Cutting Board**



**Knives + Corer (for making holes)**

# MAKING STAMPS

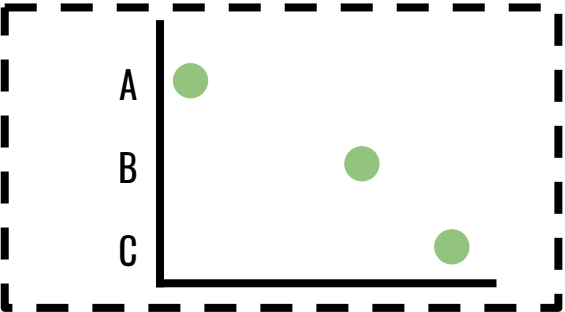


★ Invert your image when carving out your pattern

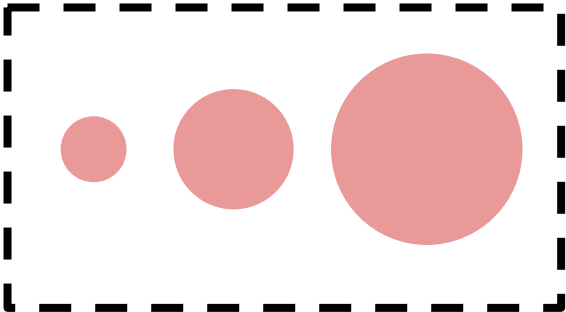
★ Same idea with sponges, play around with the materials and test the differences



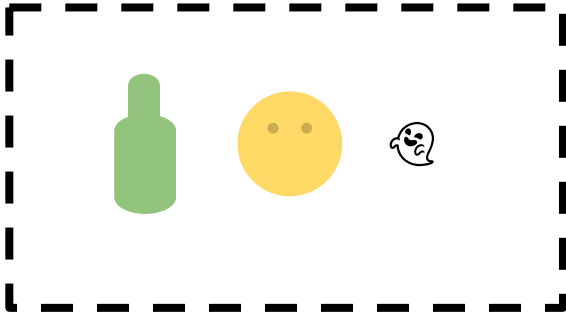
# DATA MAPPING CHEAT SHEET



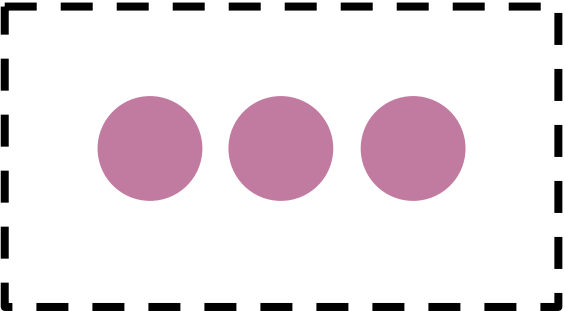
Position



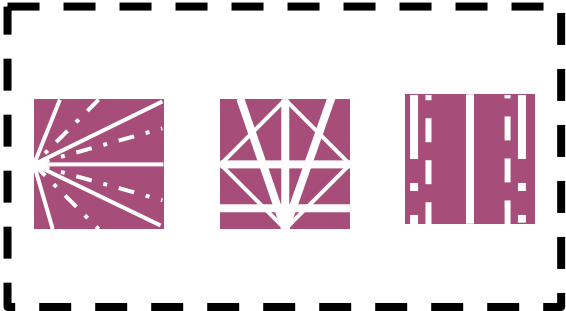
Size



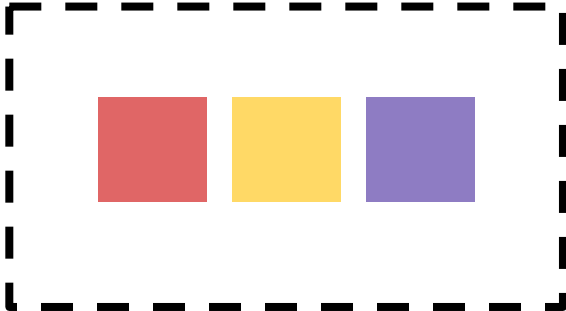
Shape



Count



Texture



Colour