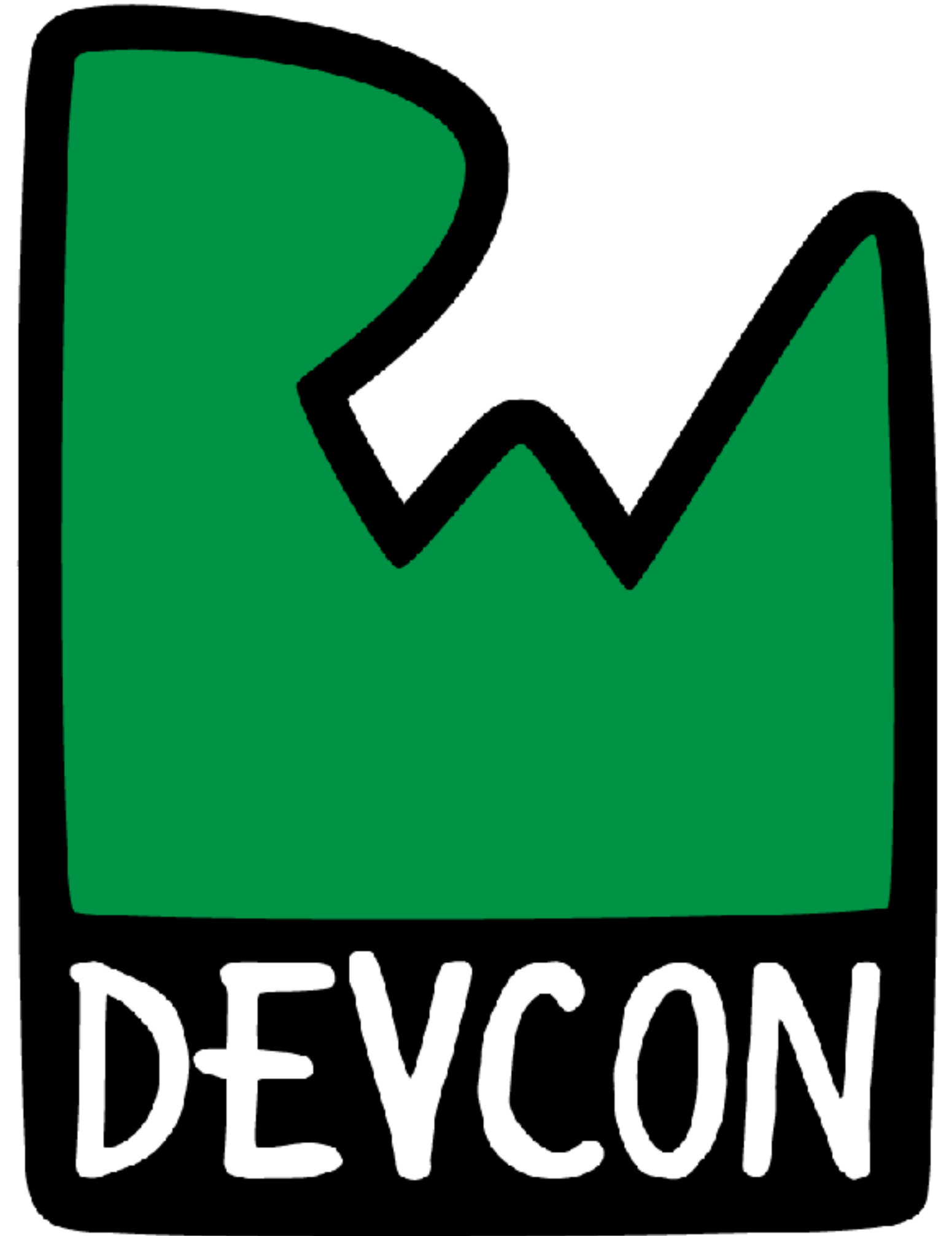


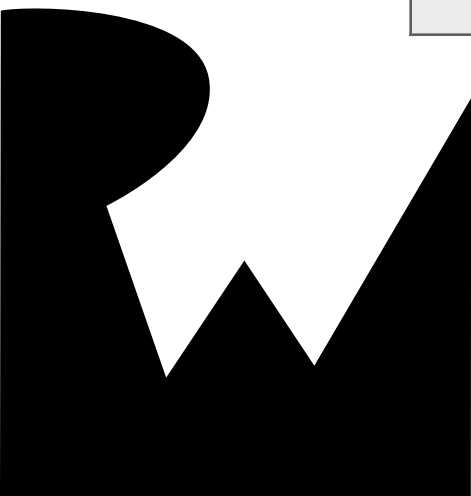
Session 8: The Art of the Chart



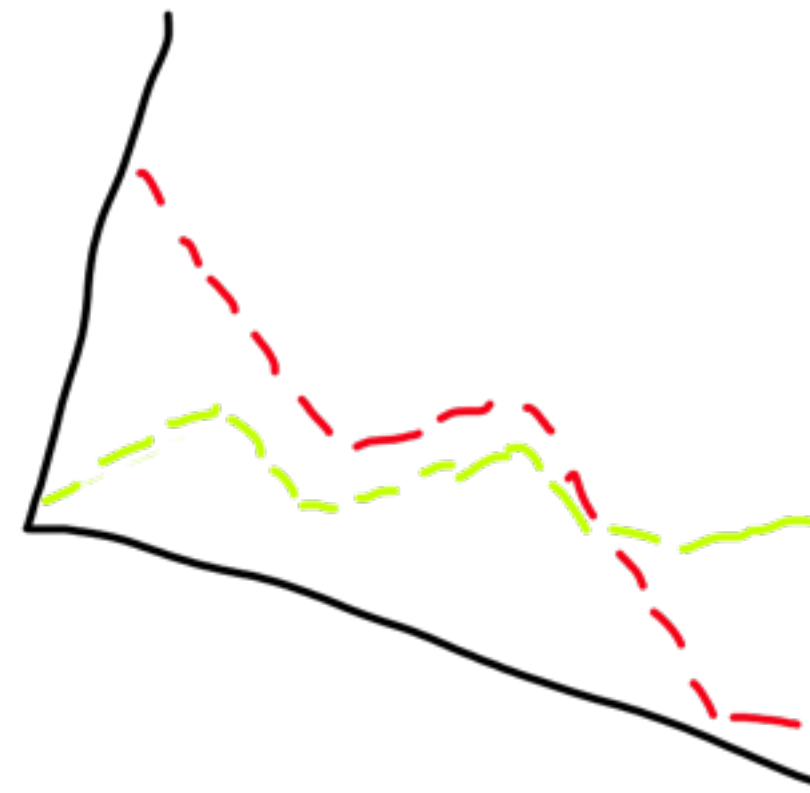
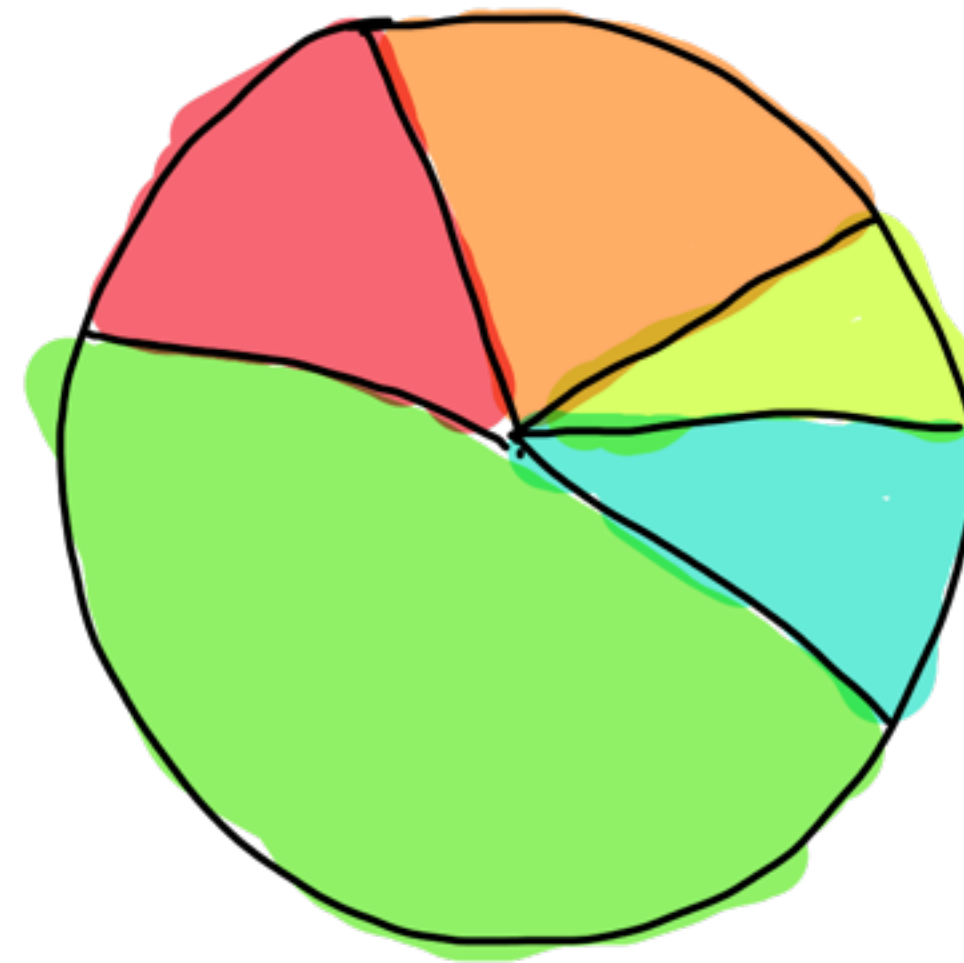
INTRODUCTION

NUMBERS ARE BORING

Flocculation	Intransigence
473	3573
346	1250
84	2357
5743	3652
45	397
465	38758
3573	573
391	7756
3587	9825



WHAT IS A CHART?

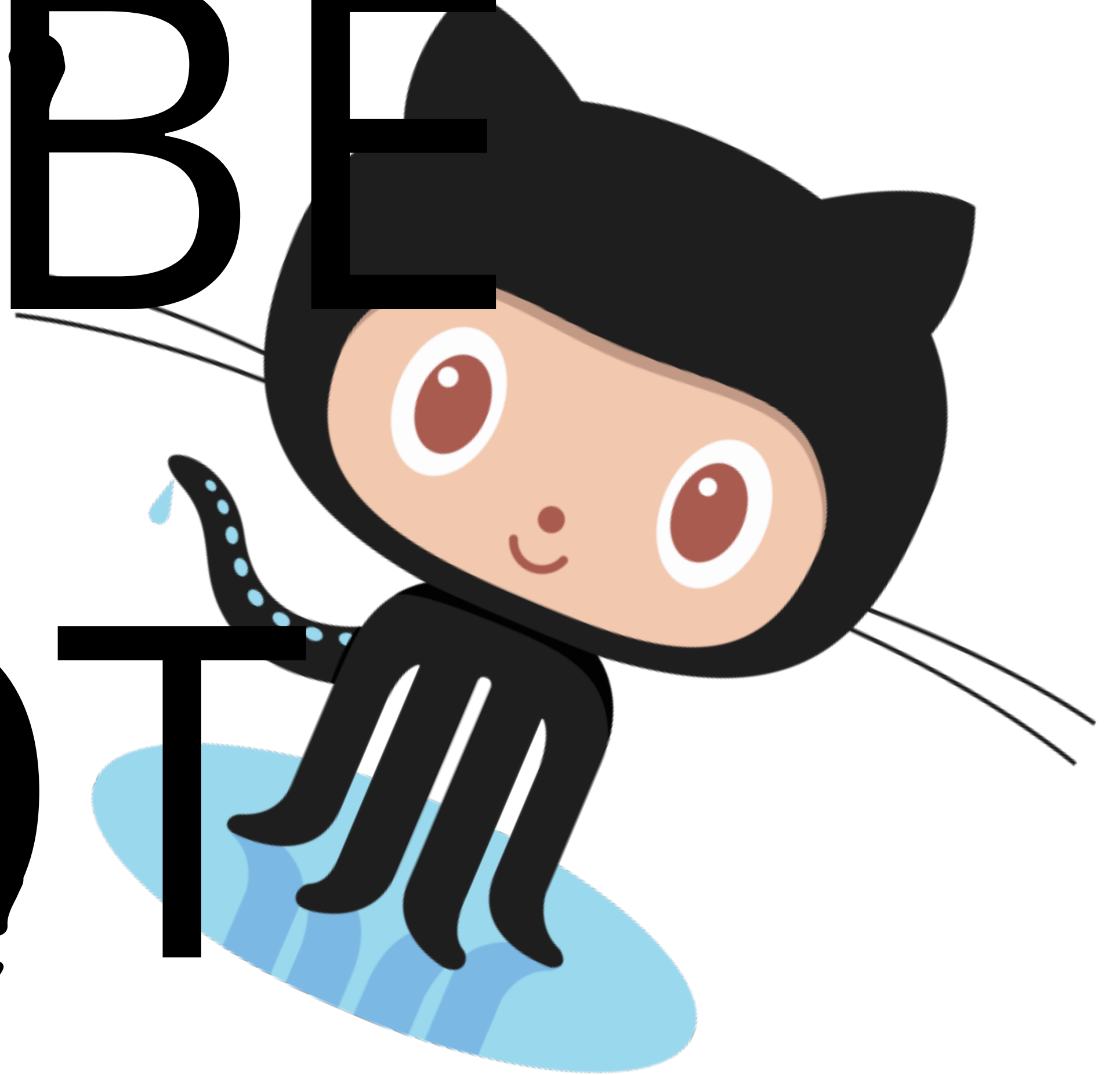


ADDING CHARTS TO YOUR APP



MAYBE

?

NOT

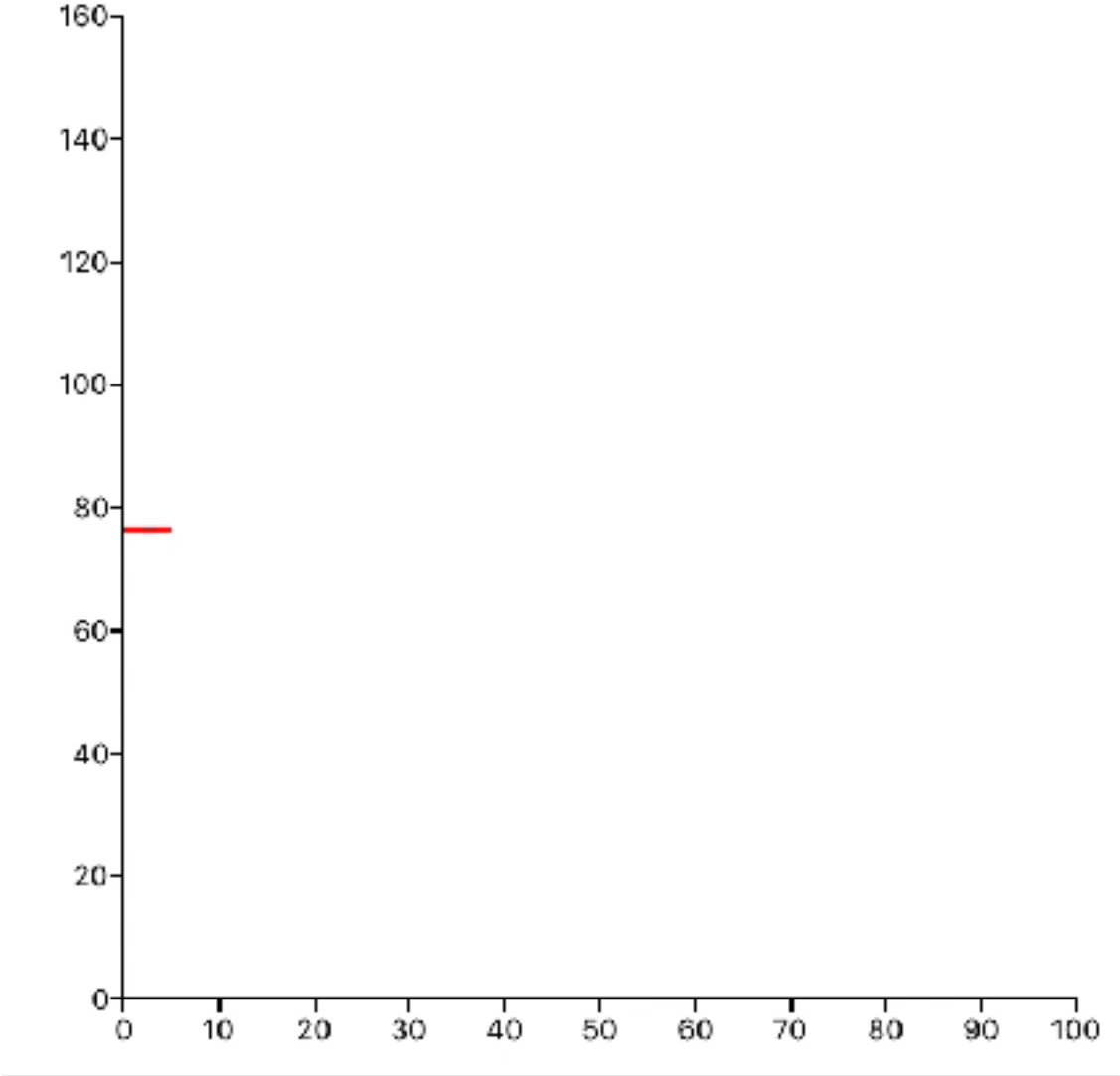
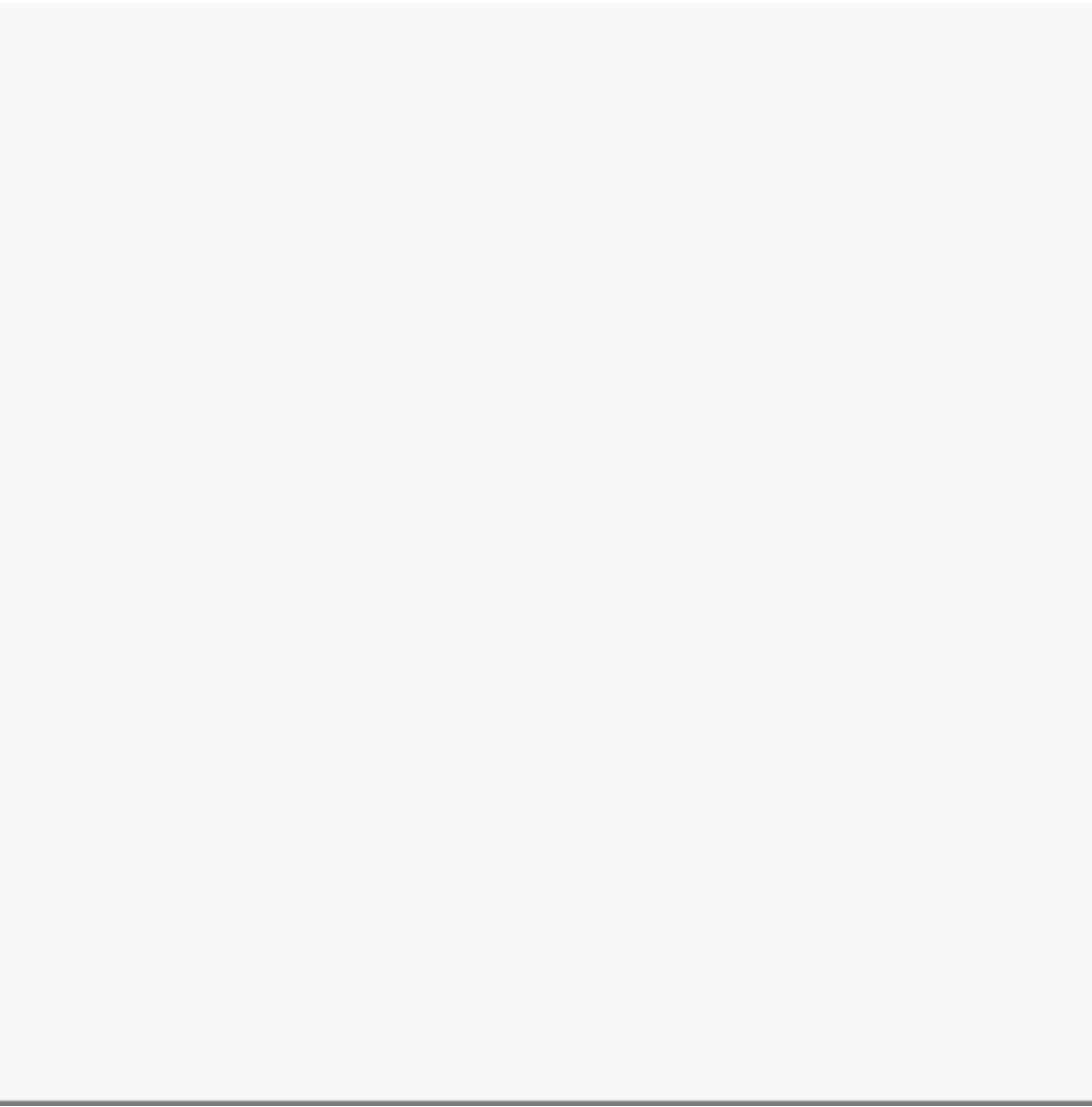


WHAT YOU'LL LEARN

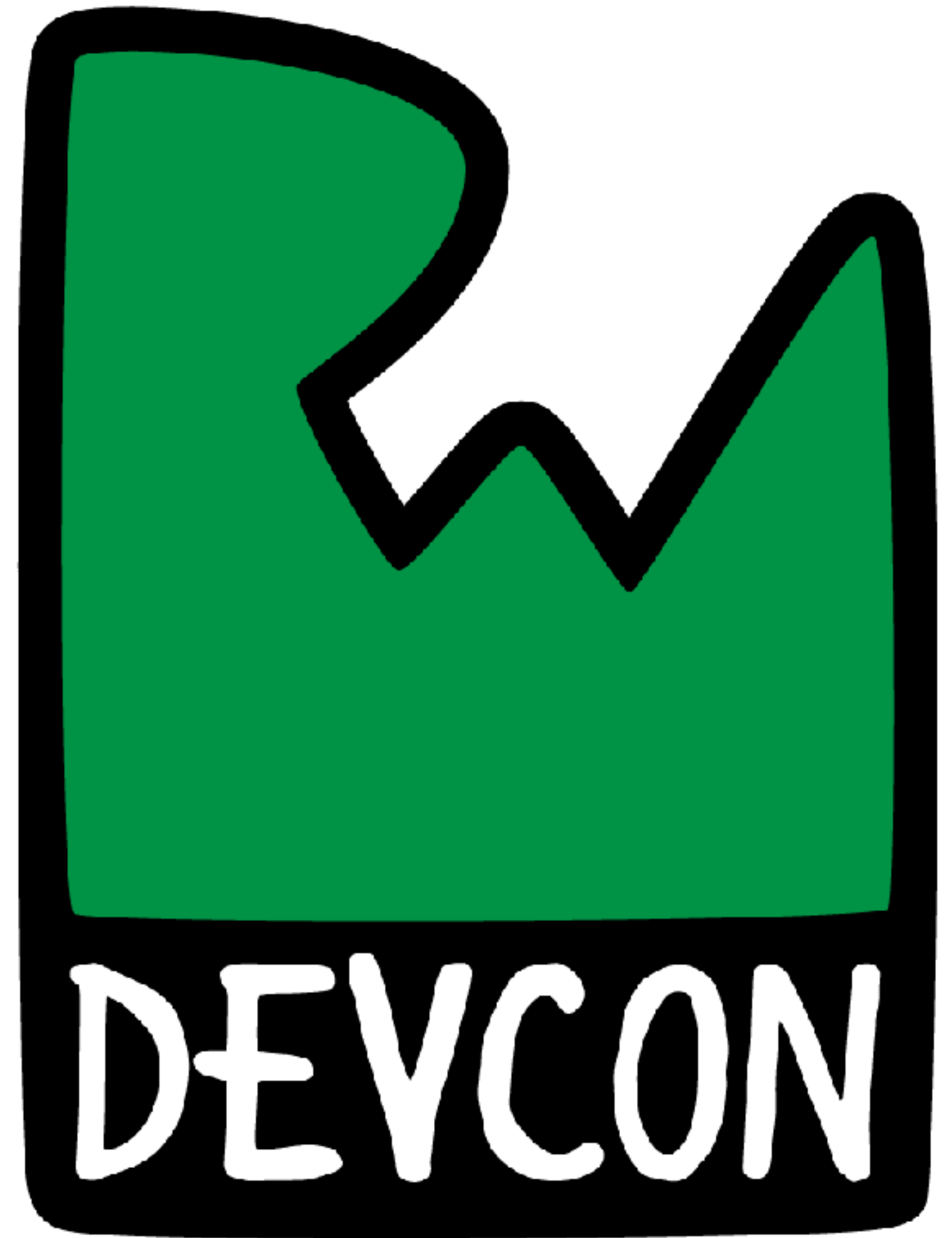
- ⚙️ **Demo 1:** Bars and pies  
- ⚙️ **Demo 2:** Chart space and line graphs 
- ⚙️ **Demo 3:** Making it fabulous 



A QUICK PREVIEW

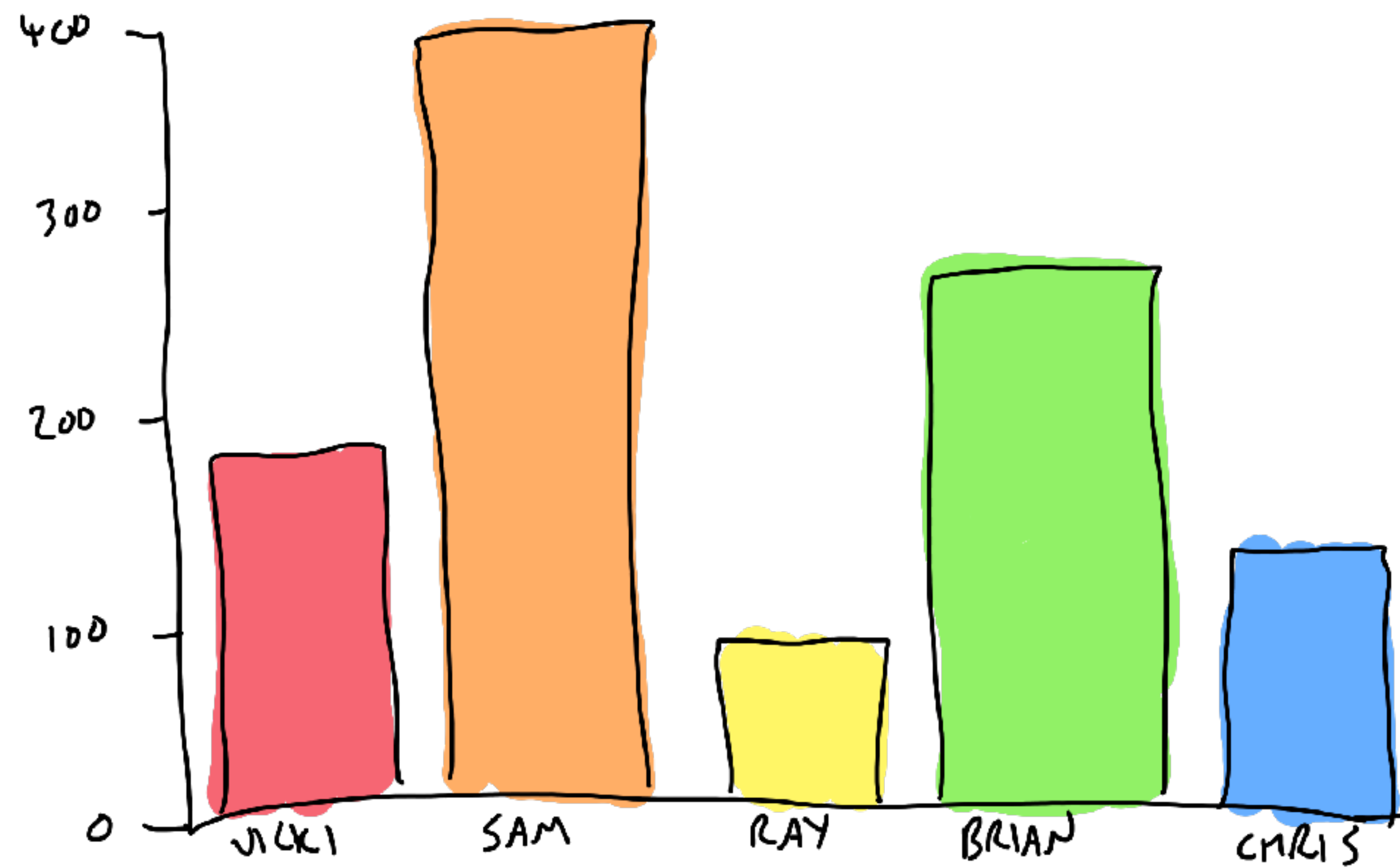


Session 8: The Art of the Chart

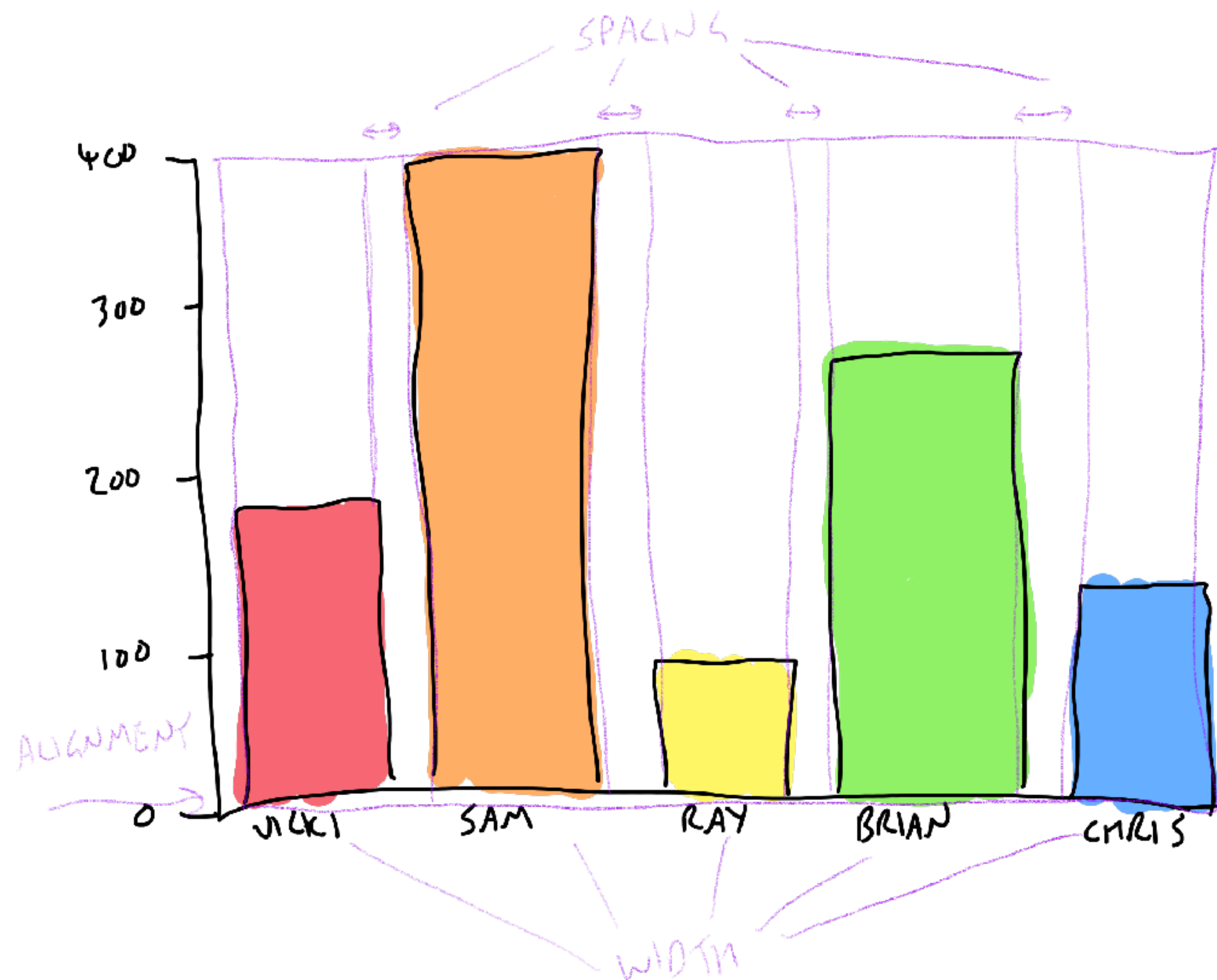


BARS AND PIES

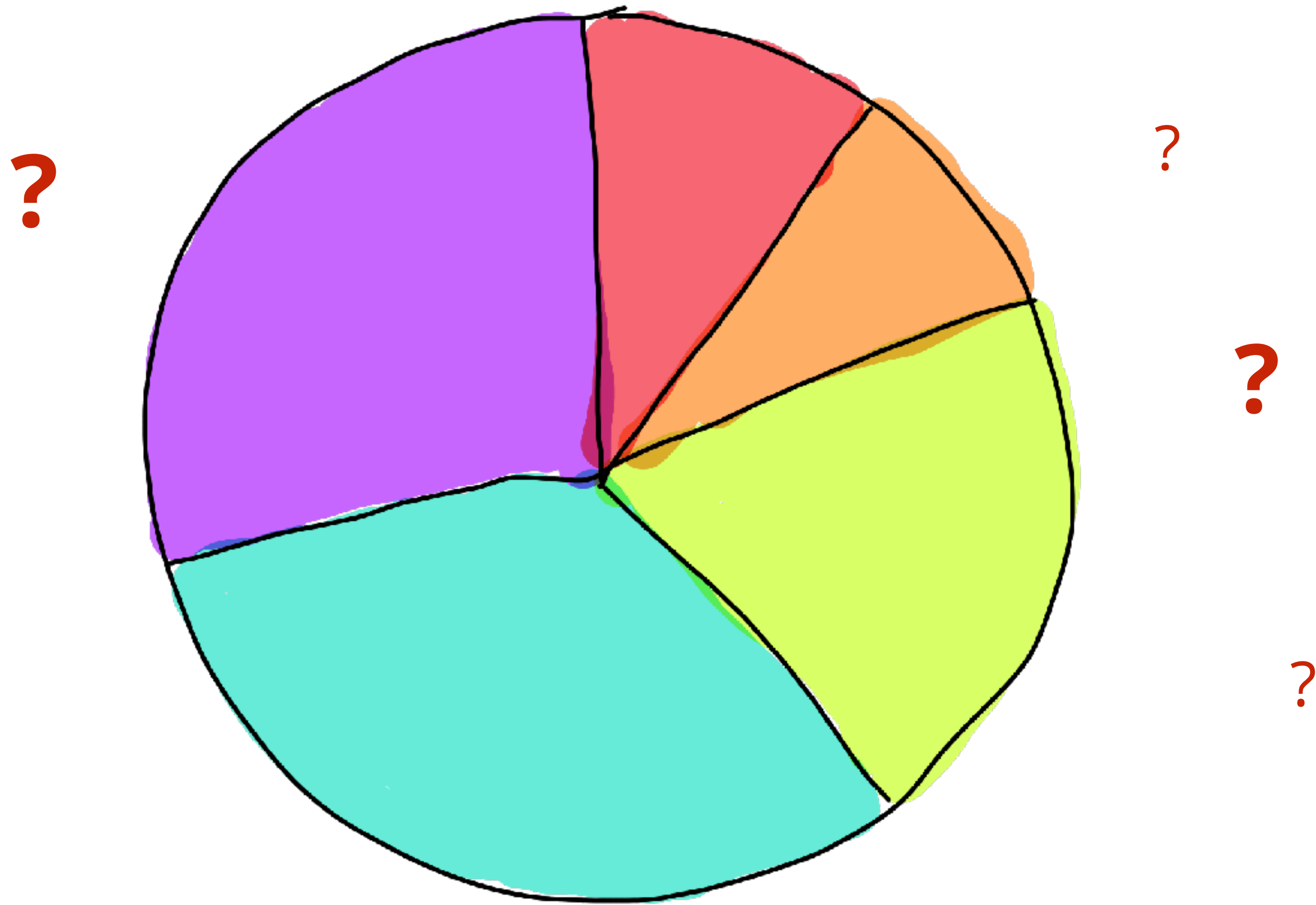
BAR CHART



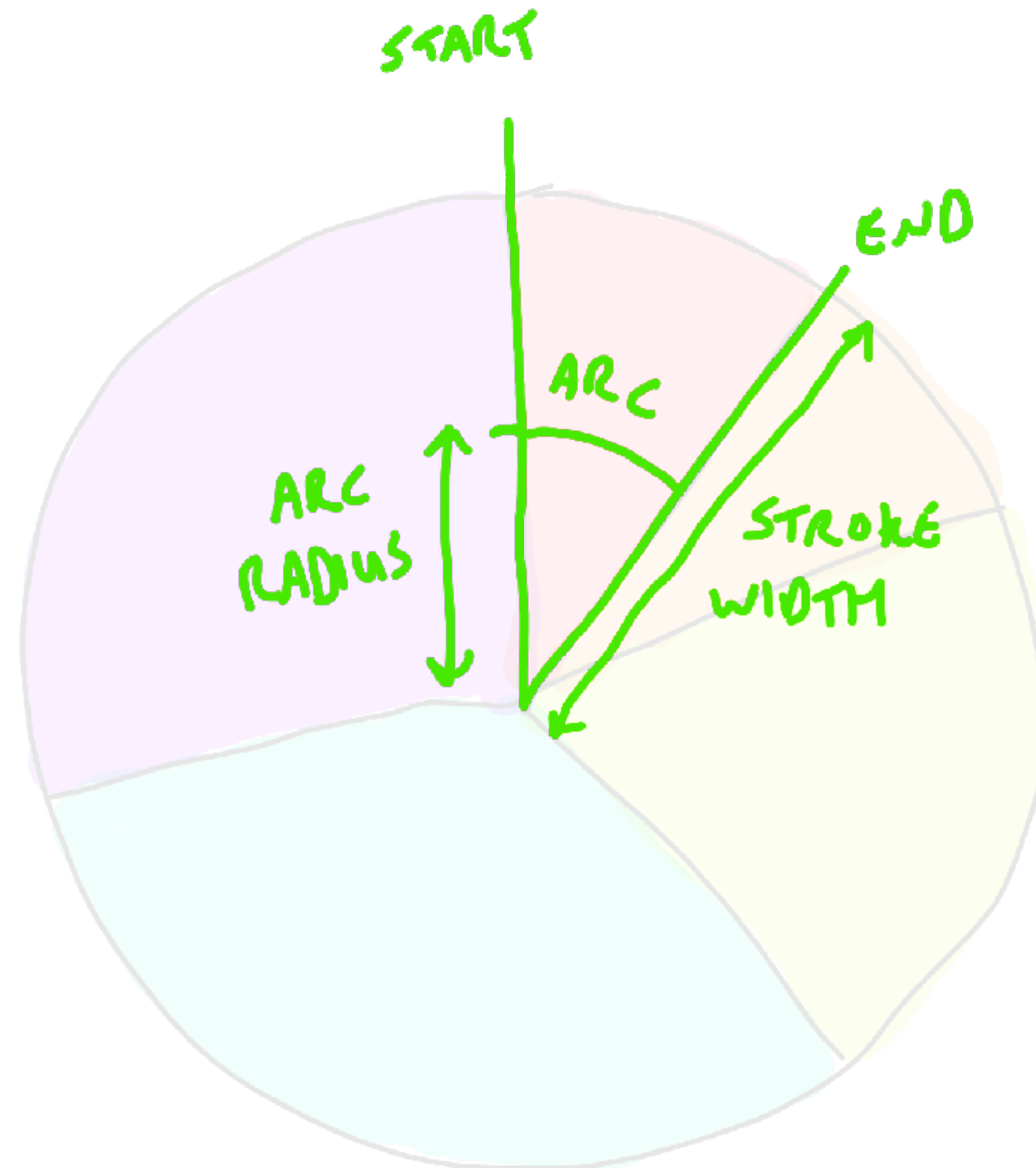
IT'S JUST BOXES



PIE CHARTS



IT'S ALL ARCS



DEMO 1



Session 8: The Art of the Chart

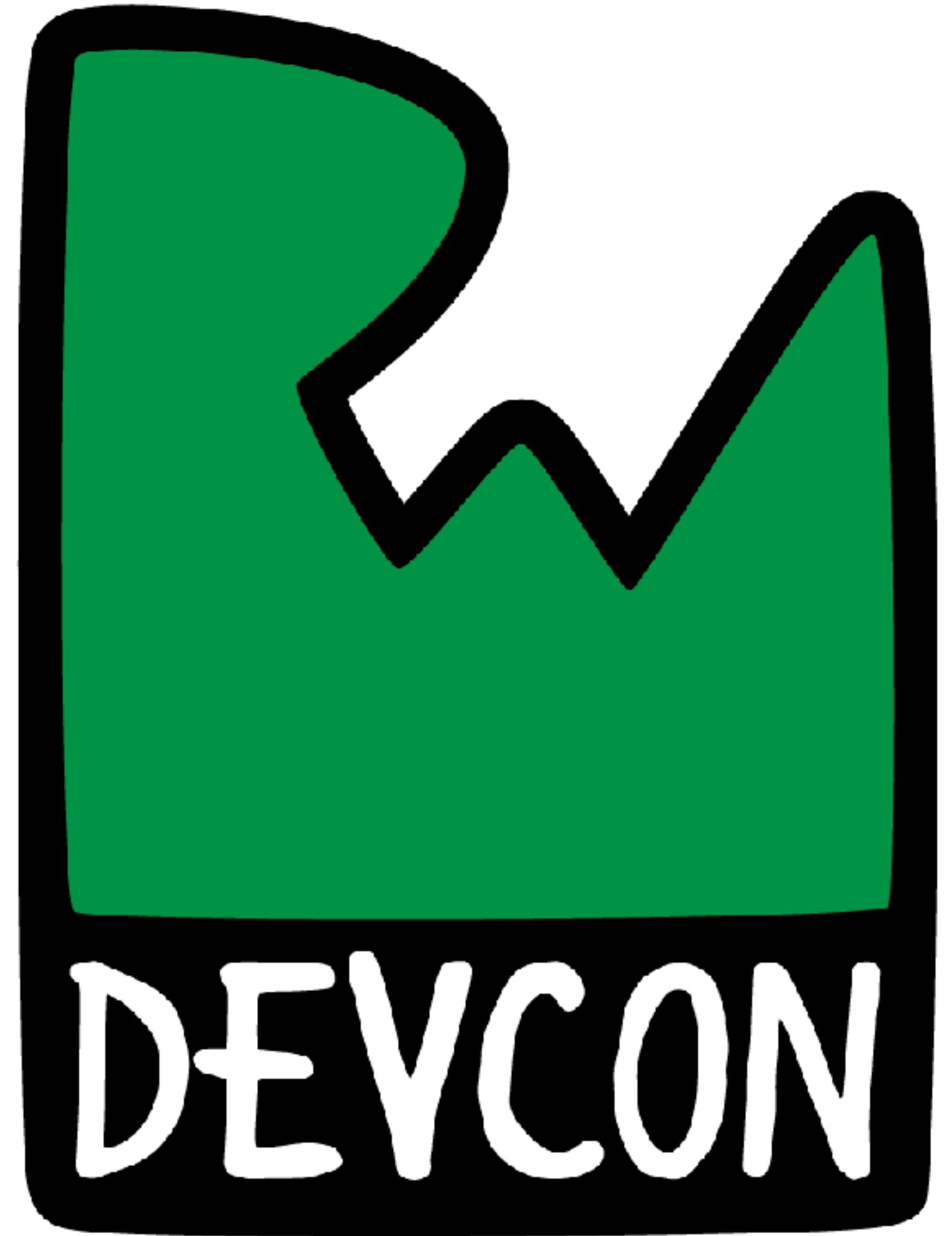
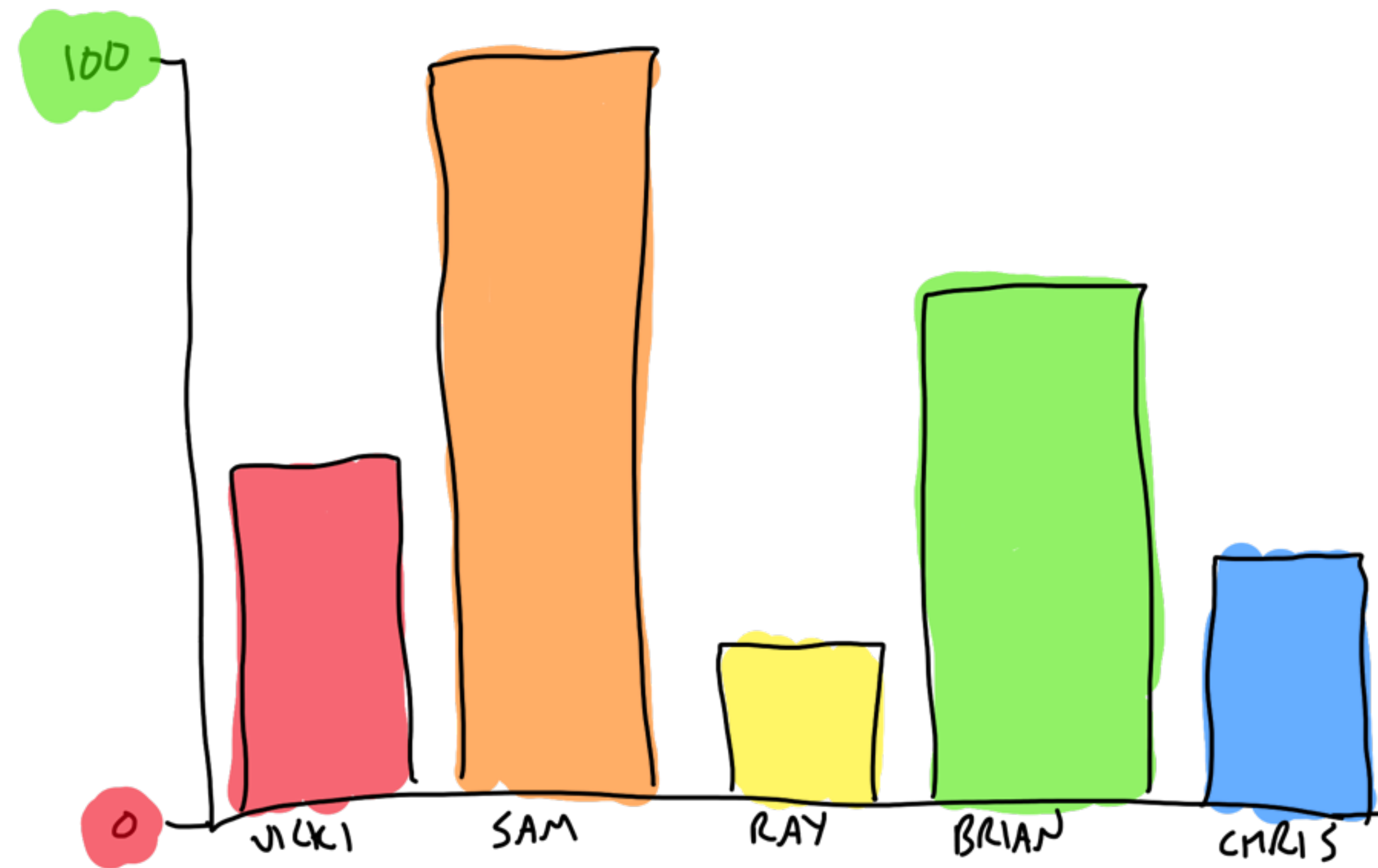
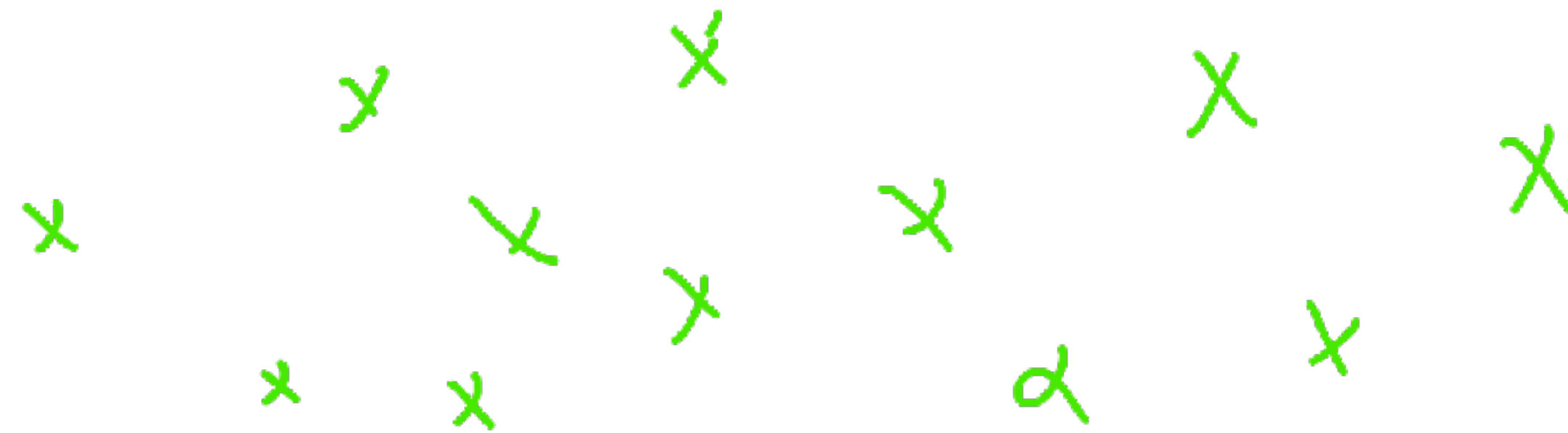


CHART SPACE

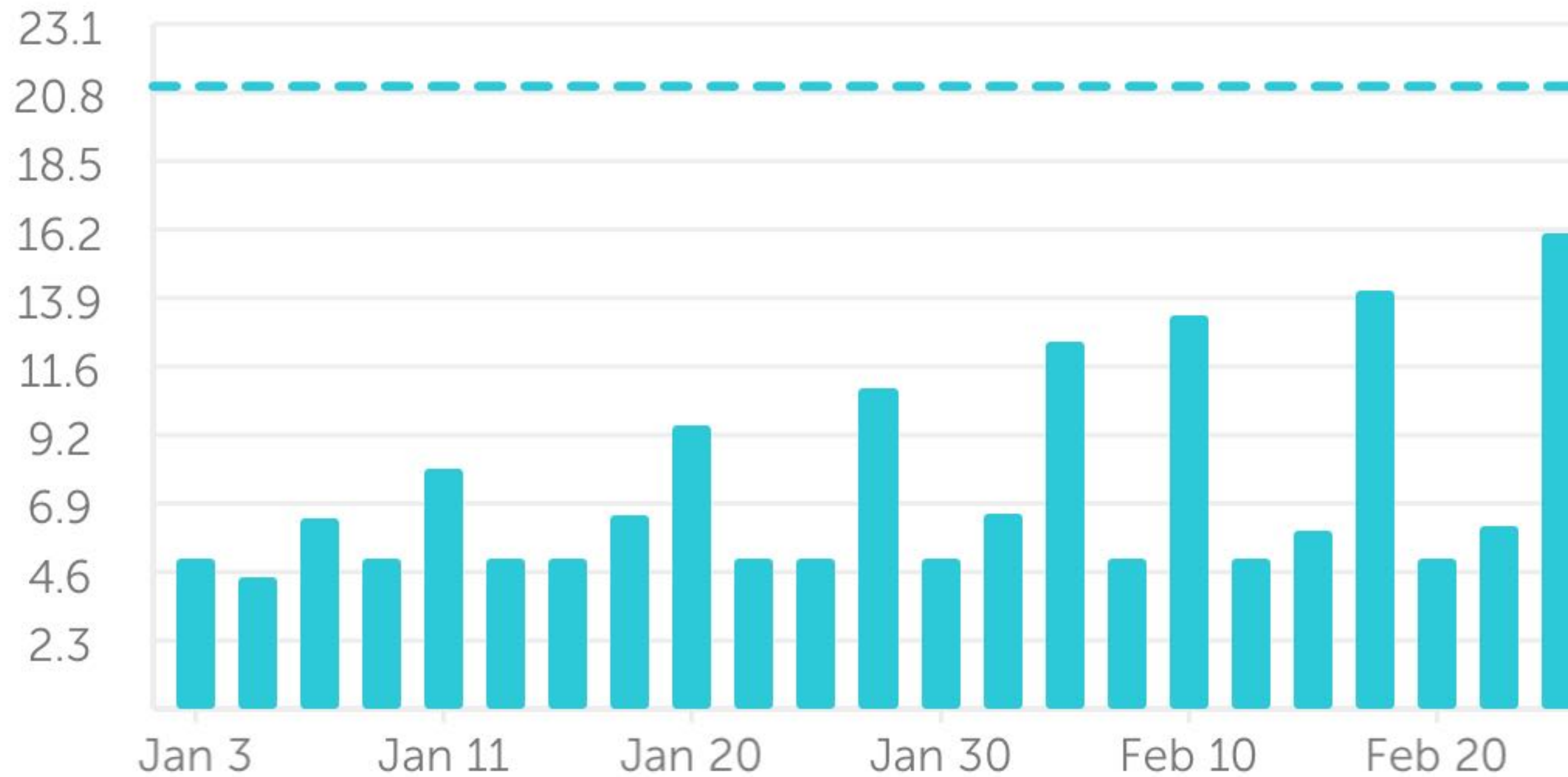
THE SIMPLEST AXIS



BUILDING AN AXIS



BUILDING AN AXIS

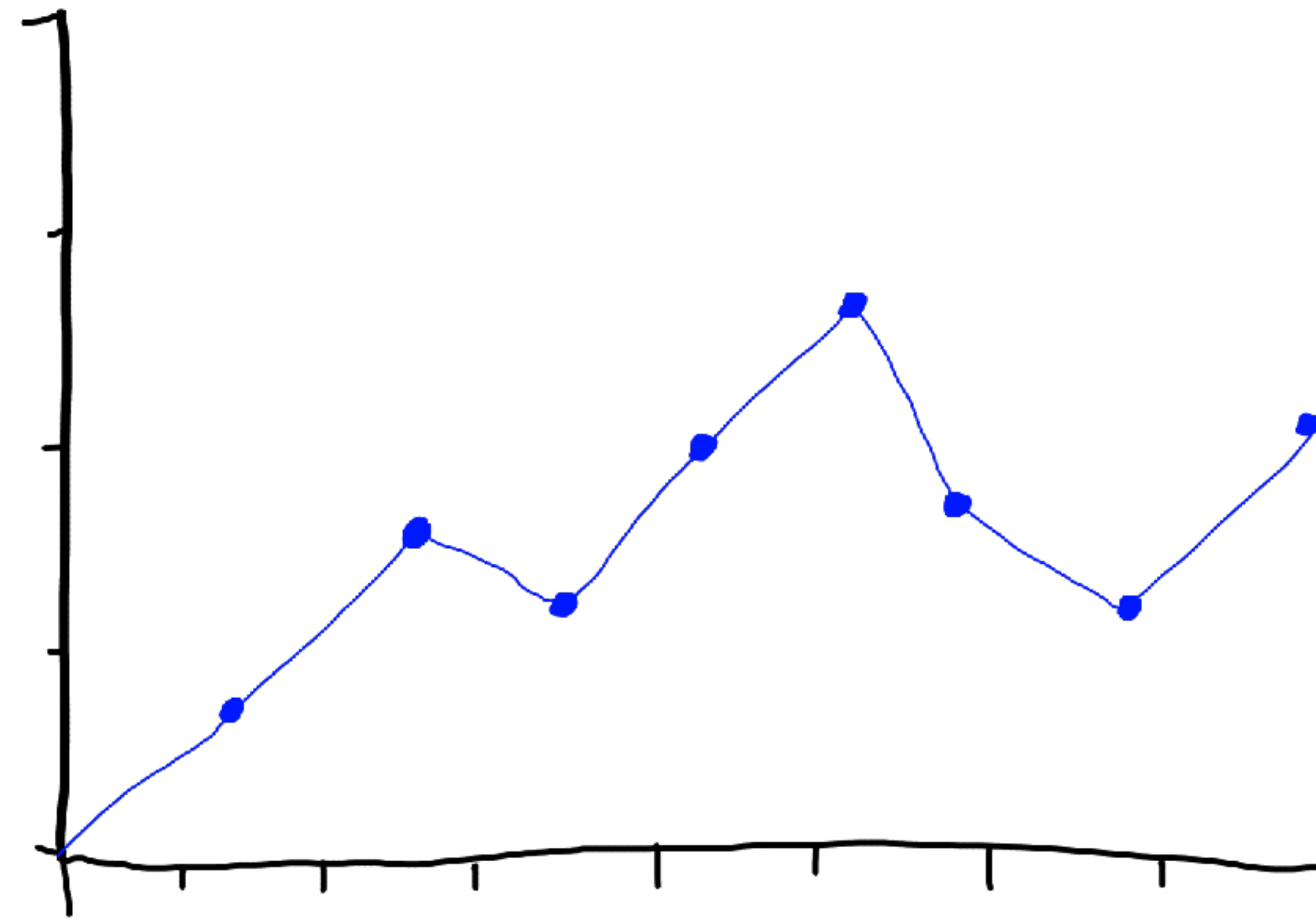


BUILDING AN AXIS

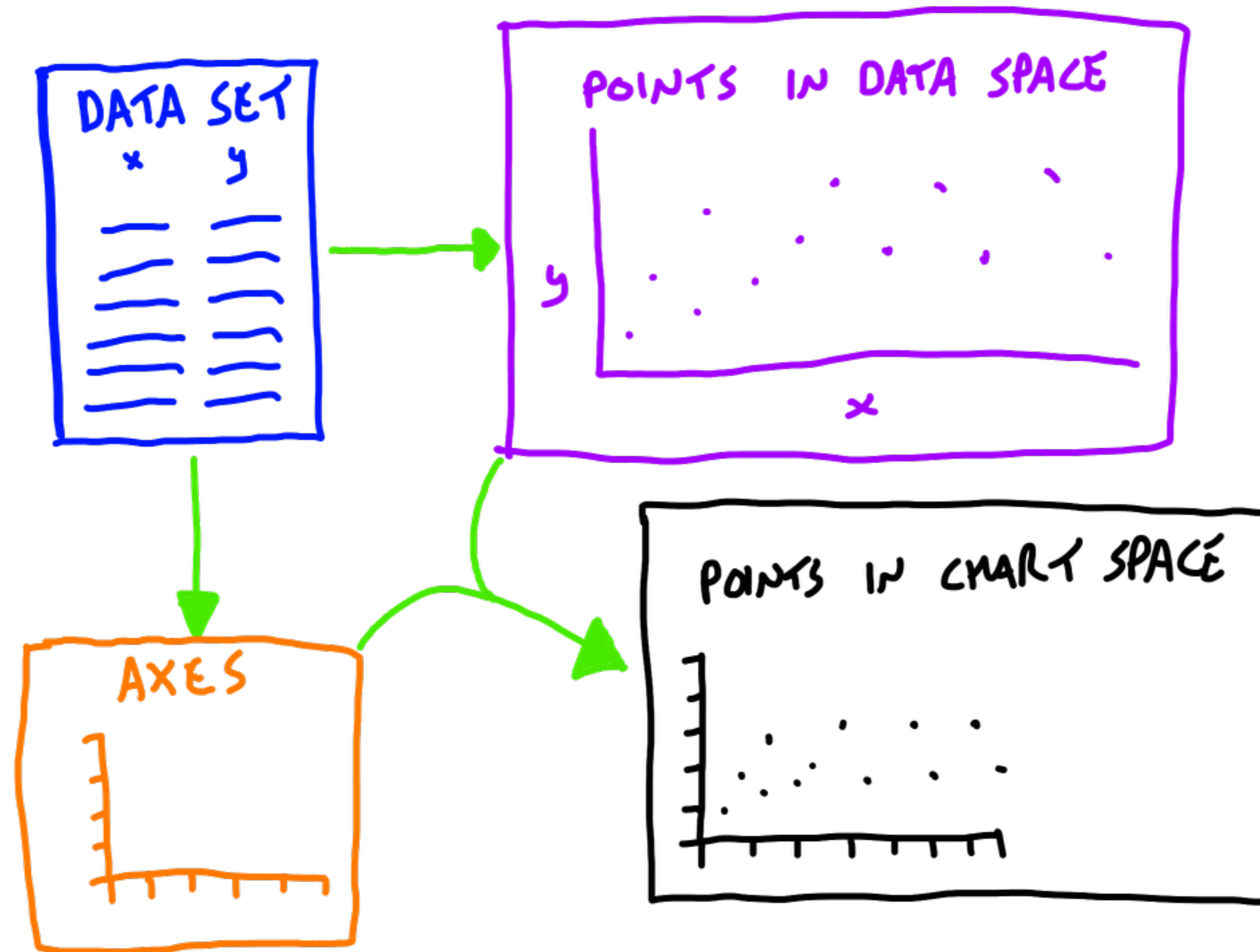
- ⚙ Given a **range** and a **maximum tick count**:
 - ⚙ Obtain a rough target tick size (*e.g. 24.352*)
 - ⚙ Work out what factor of 10 that represents (*1, 10, 100...*)
 - ⚙ Work out the smallest multiple of that which covers your range (*4, 30, 200...*)



LINE GRAPHS



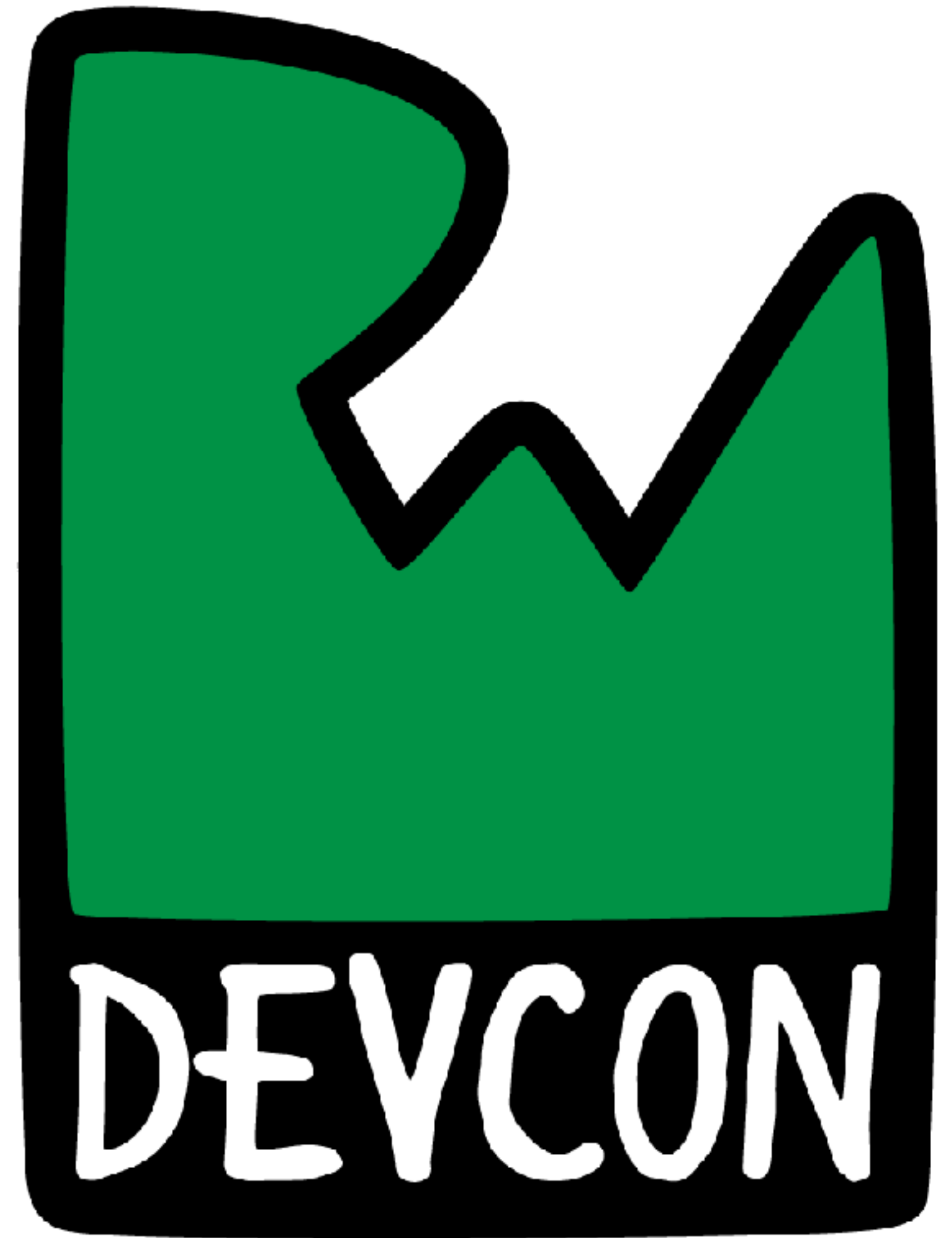
DATA SPACE TO CHART SPACE



DEMO 2

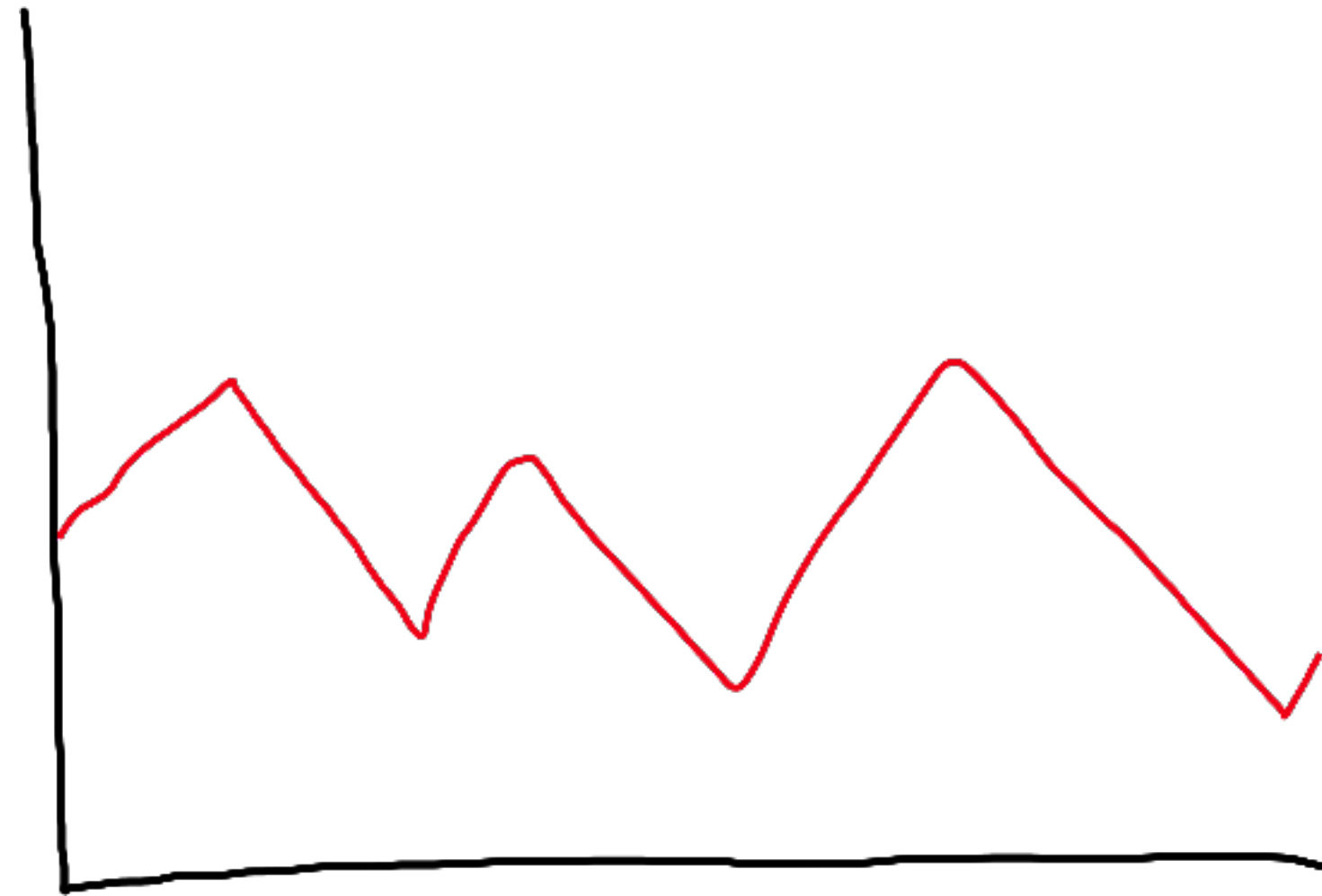


Session 8: The Art of the Chart

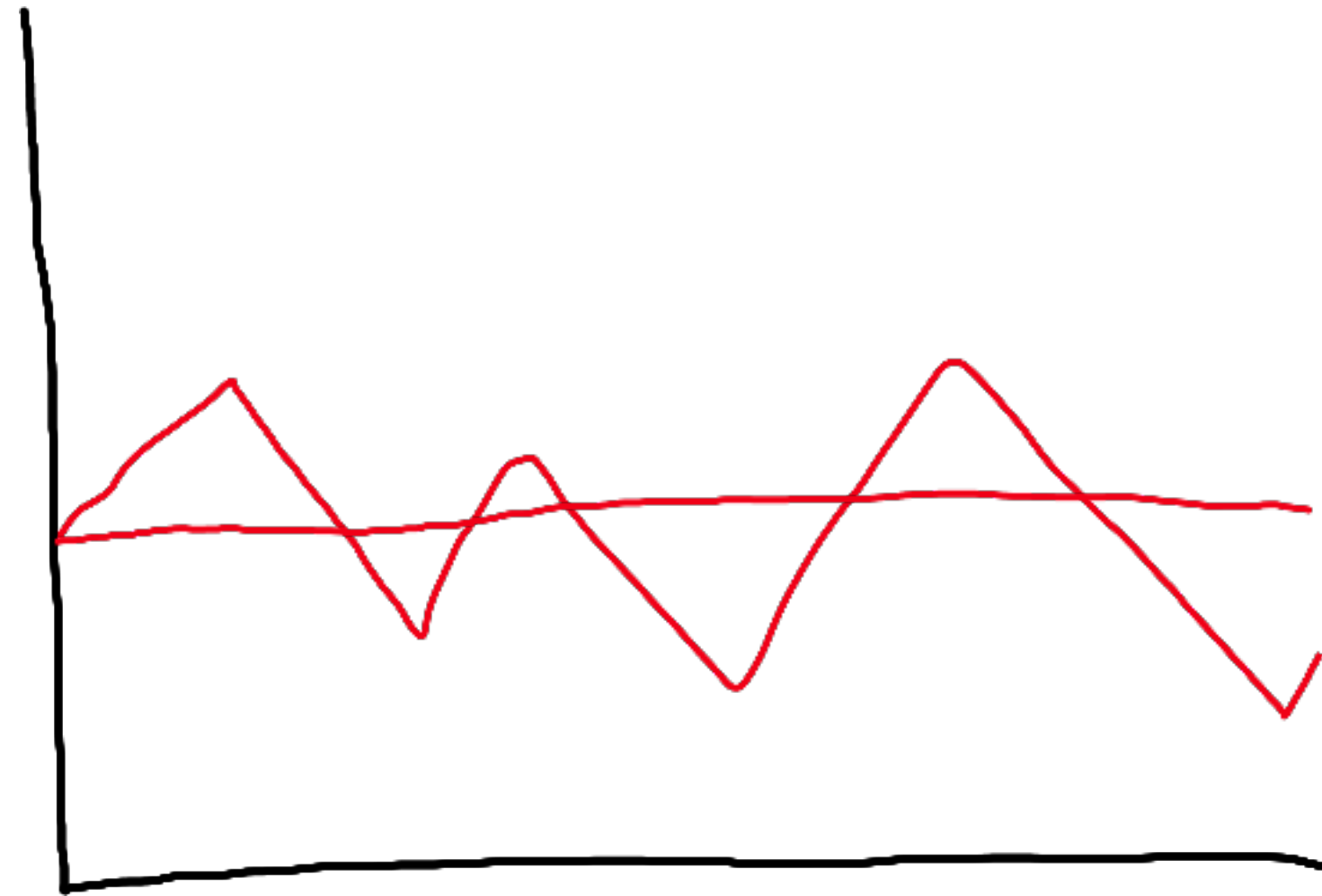


MAKING IT FABULOUS

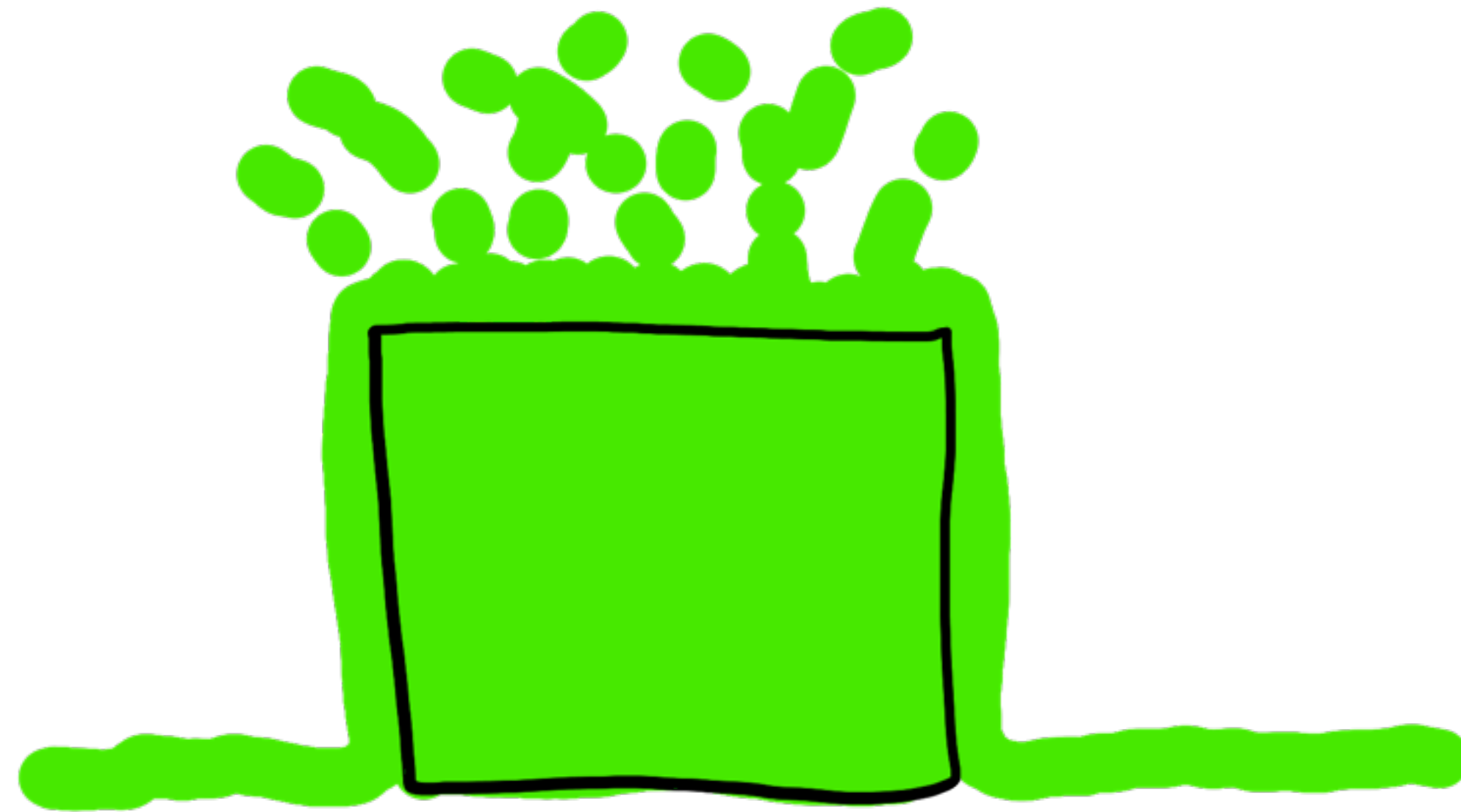
ANIMATING LINES



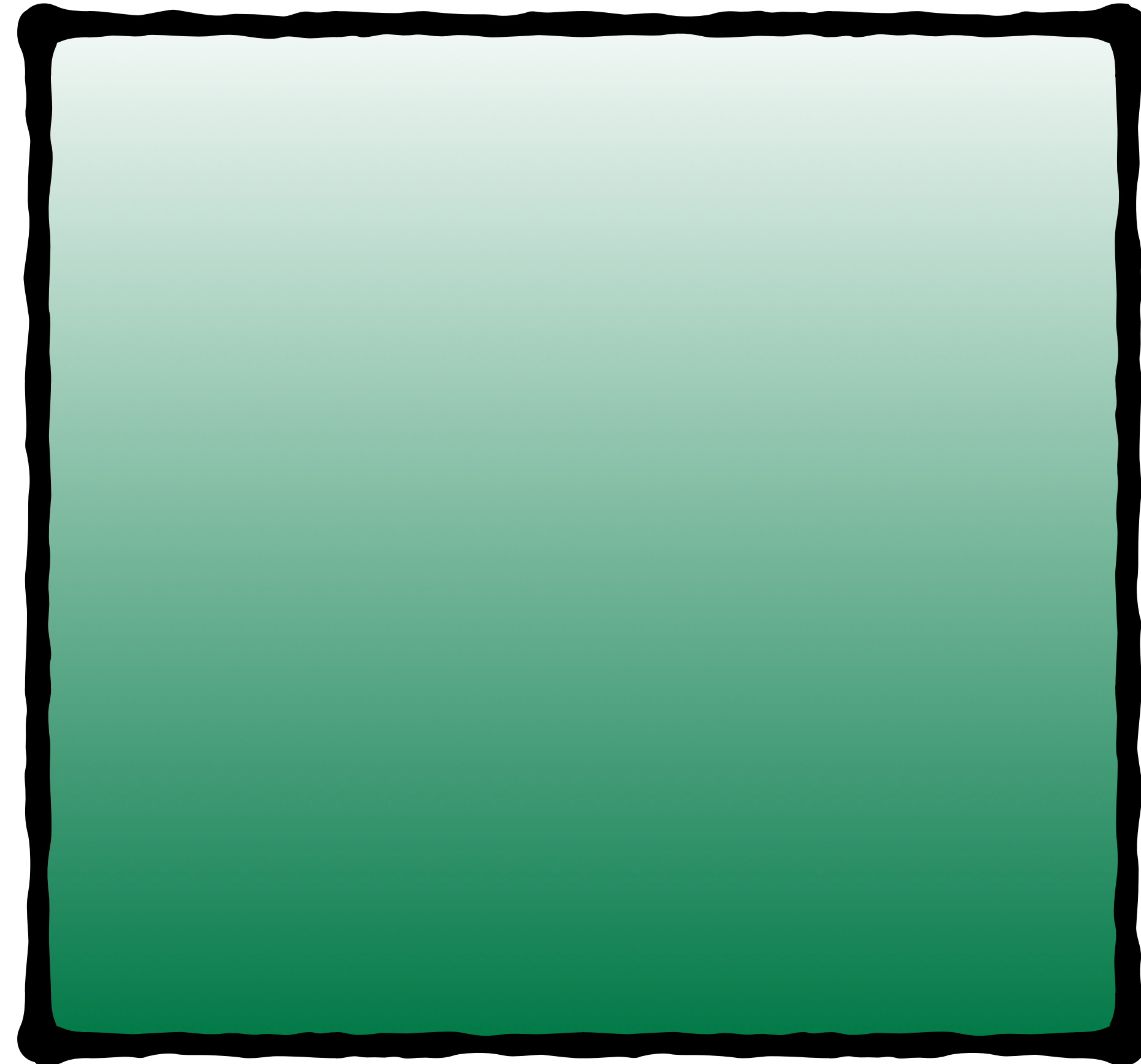
ANIMATING LINES



FILLS

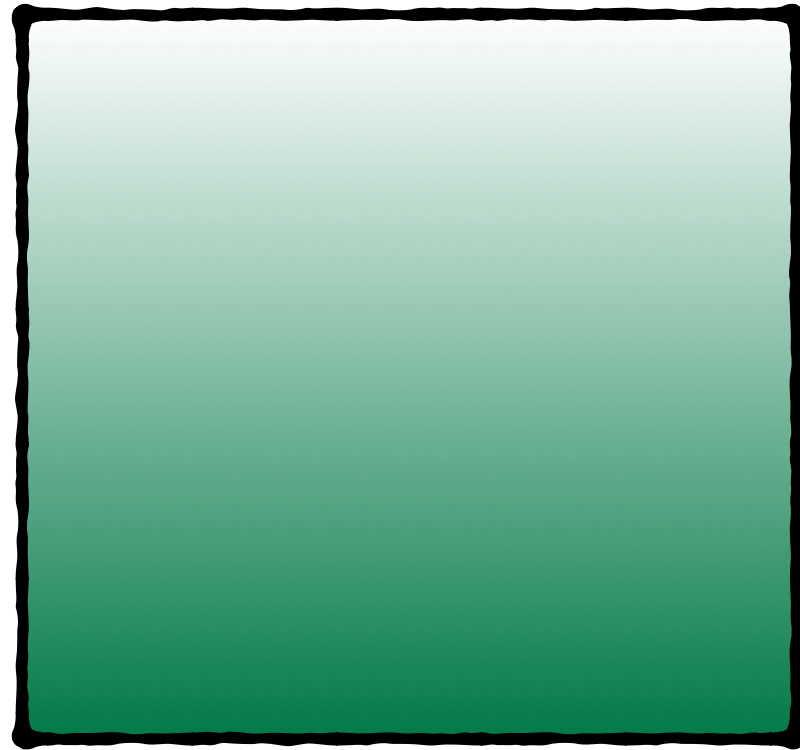


GRADIENT LAYERS



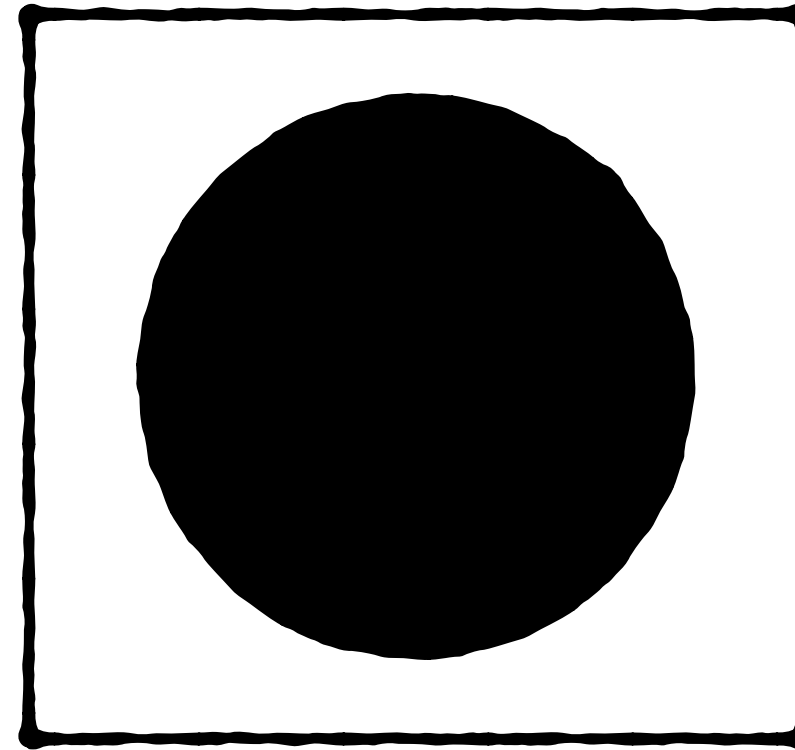
LAYER MASKS

LAYER



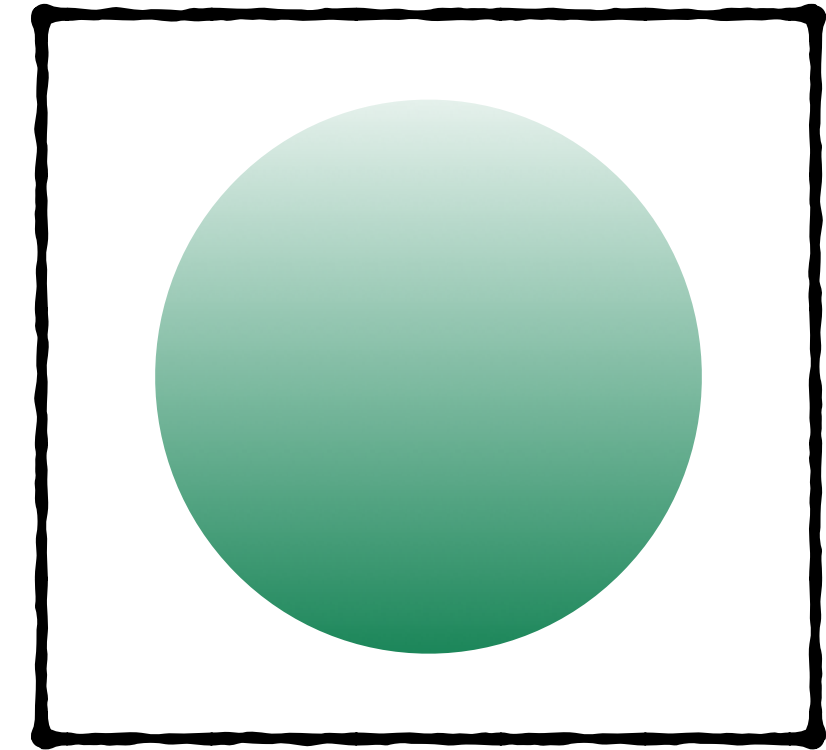
+

MASK



=

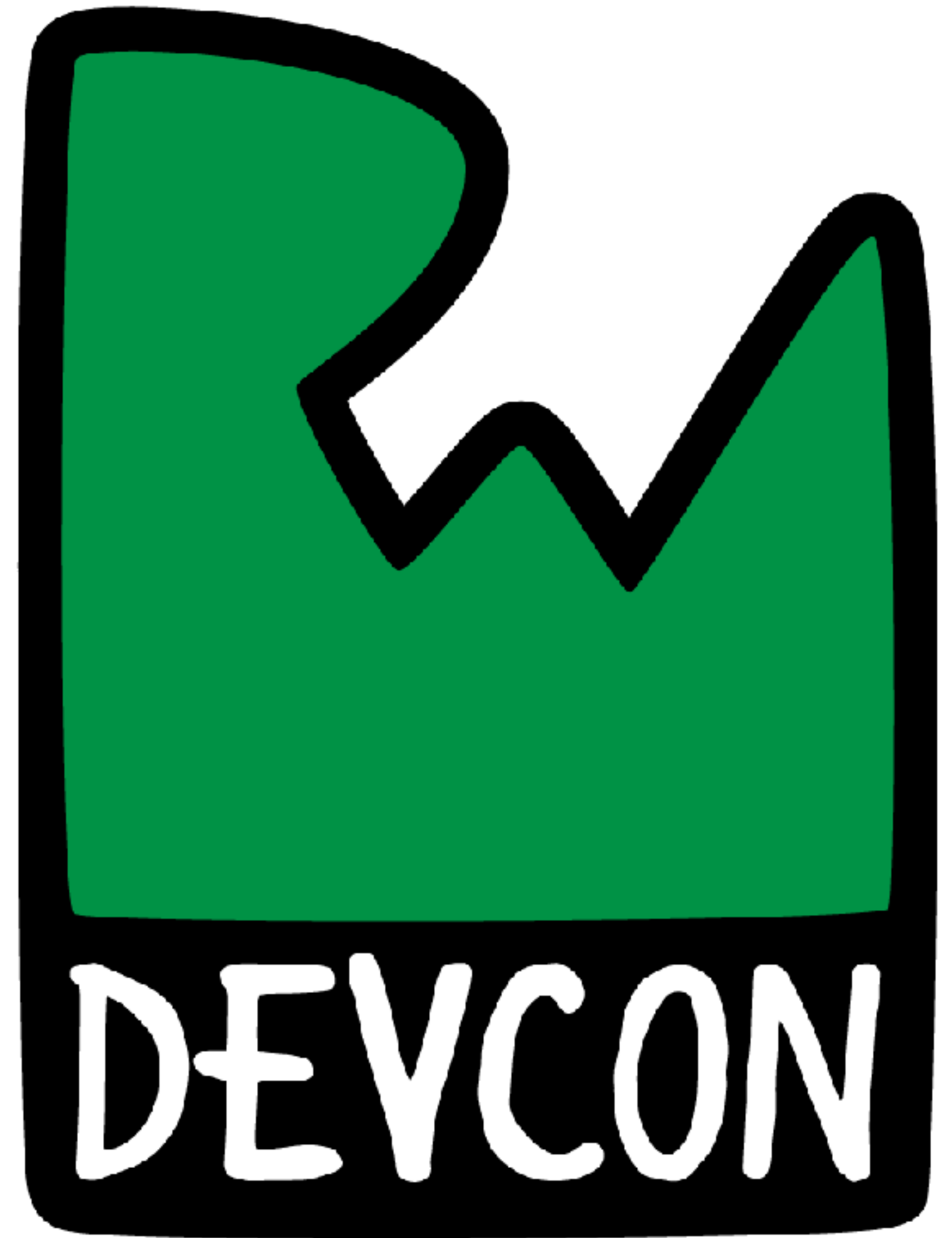
MASKED LAYER



DEMO 3

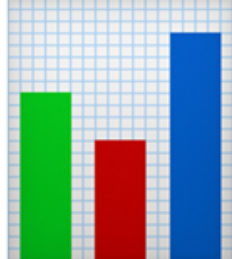





Session 8: The Art of the Chart



CONCLUSION

WHAT YOU LEARNED

- ⚙️ **Demo 1:** Bars and pies  
- ⚙️ **Demo 2:** Chart space and line graphs 
- ⚙️ **Demo 3:** Making it fabulous 



WHERE TO GO FROM HERE?

- ⚙ I hated this whole talk, I want to use Core Plot!
- ⚙ raywenderlich.com Core Plot tutorial
- ⚙ The Visual Display Of Quantitative Information
- ⚙ raywenderlich.com CALayer tutorial
- ⚙ Twitter: @richturton

