

Computational Fundamentals: D3

Week 5: Drawing Data 1

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Check in.

CLASS REMINDER:
Our next HW is due before next week's
class time (see WK 4 slides for details)

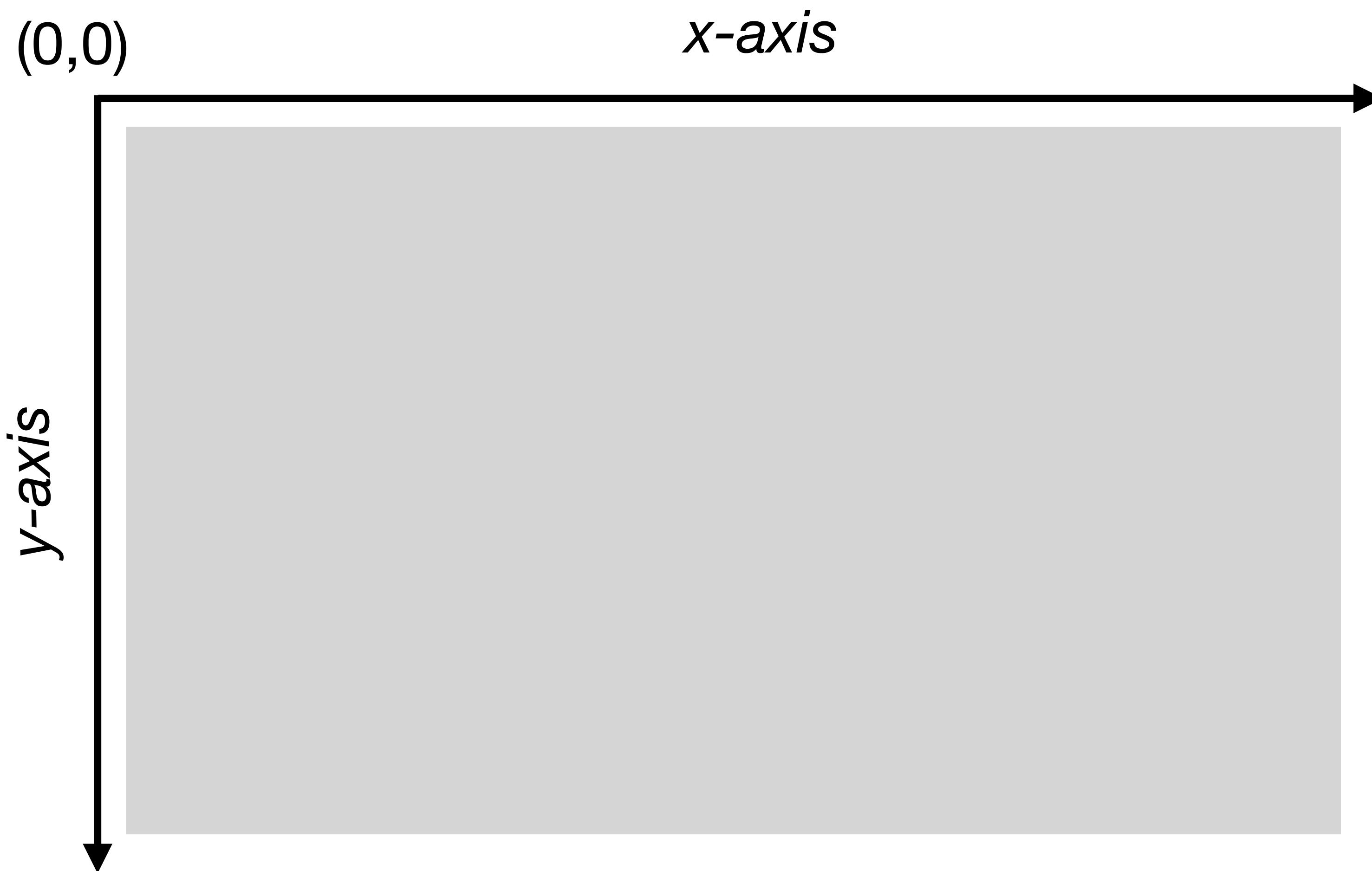
**DEPT REMINDER:
MA DH/MS DAV dept grant funding is
due 5pm Fri Mar 1**

What we'll cover

- SVG Path
- SVG Shapes
- SVG Transforms

SVG Path

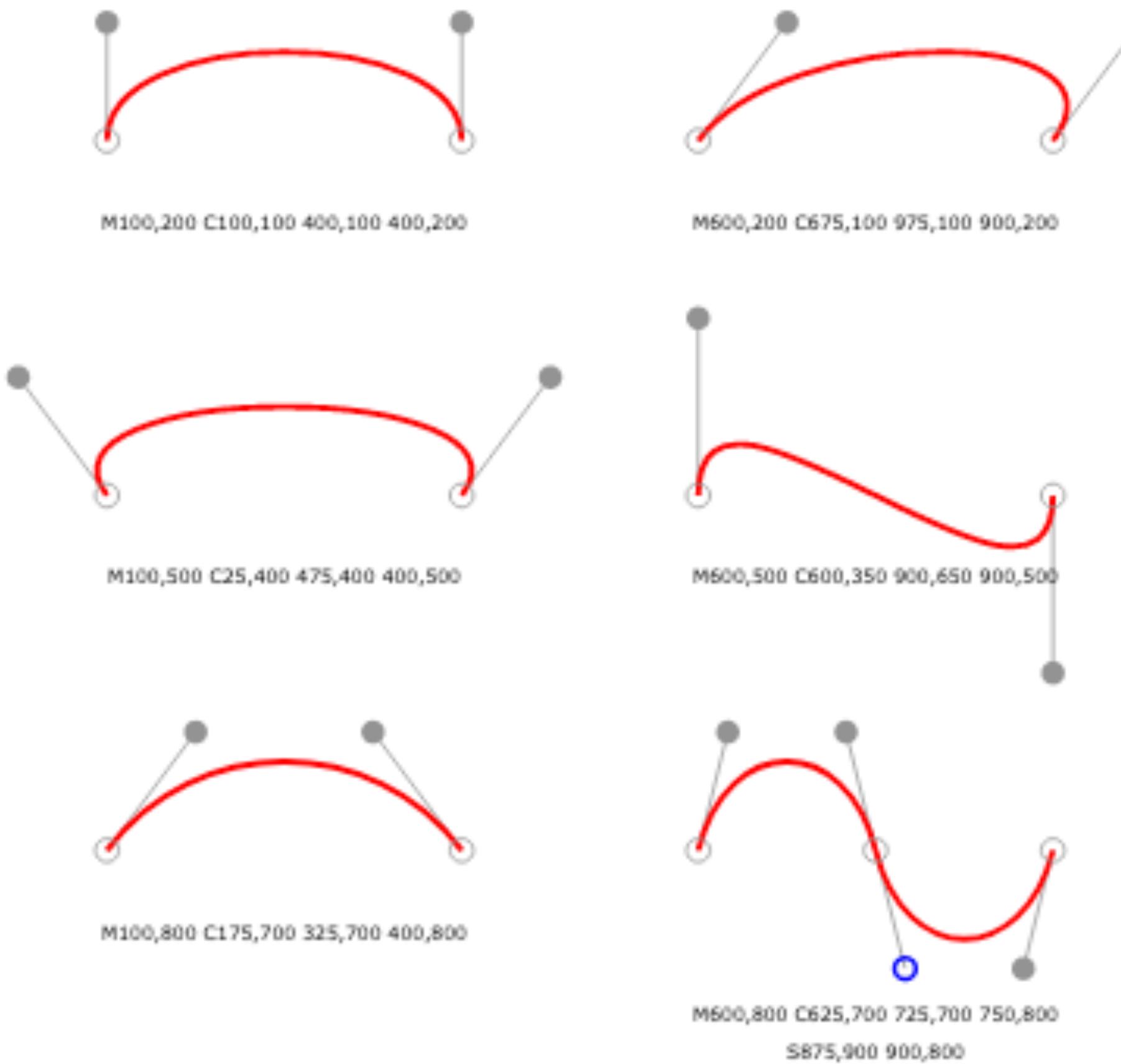
SVG Coordinates



Common SVG Path Commands

How to Call	Command	Coordinate Info	Description
M	move to	x,y	No line is drawn. This is like picking up your pen and drop it on a specific point/coordinate. You should start with M.
L	line to	x,y	Draws a line from wherever you are to a specific coordinate. You see the path, and it is a straight line. You cannot start with L: you cannot draw a line from nowhere.
C	curve to	px1, py1 px2, py2 x2, y2	Draws a Bezier curve from where you are to an end point (x2,y2). The first two coordinates (px1,py1 px2, py2) are control points: they control the shape of the curve.
Z	close path	na	Ends the shape. Needs no coordinates.

Bézier Curves



Transforms

Text in SVG

Text can be an SVG element! Like a circle or rect, text takes specific parameters:

x: x-coordinate

y: y-coordinate

dx: x-coordinate offset (optional)

dy: y-coordinate offset (optional)

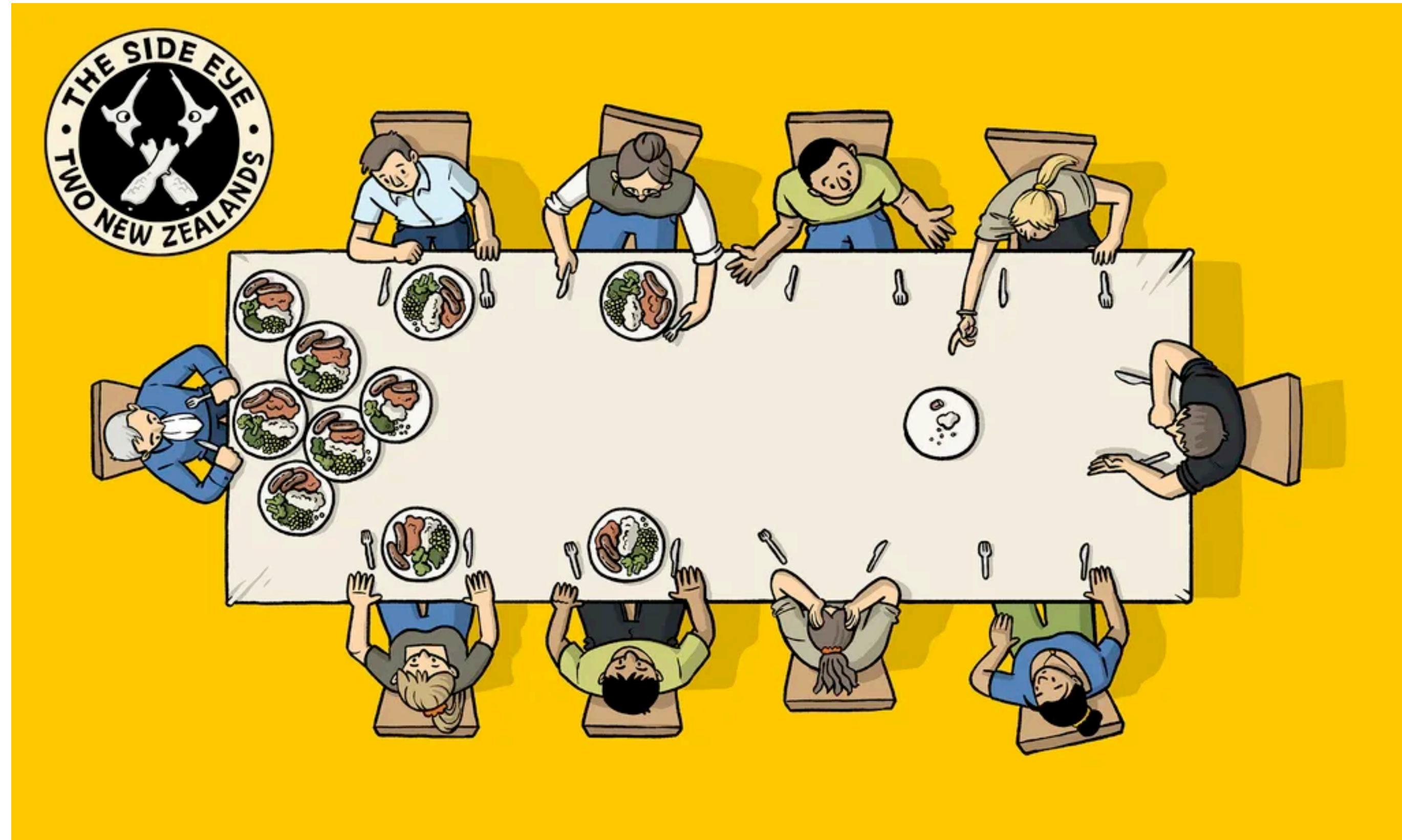
text-anchor: horizontal text alignment (i.e.“start”, “middle”, “end”) (optional)

** Don't forget to include your actual text with `.text("Your Text")`

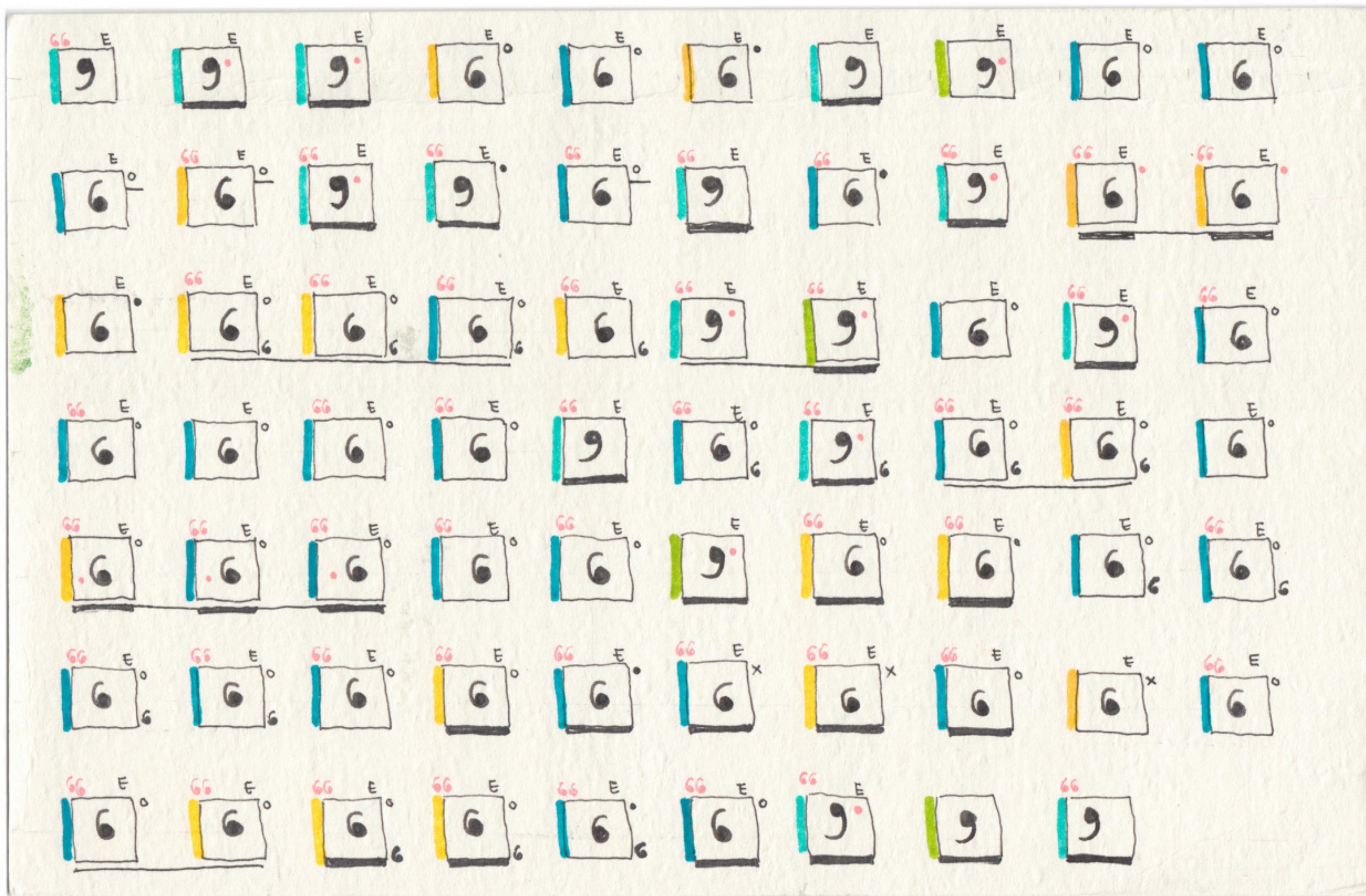
Working with D3

Applying Data

Sources of Inspiration



Img src and see full comic: <https://thespinoff.co.nz/society/16-08-2022/the-side-eyes-two-new-zealands-the-table>



Img src: <https://deardata-deliveries.tumblr.com/>

66 DEAR DATA

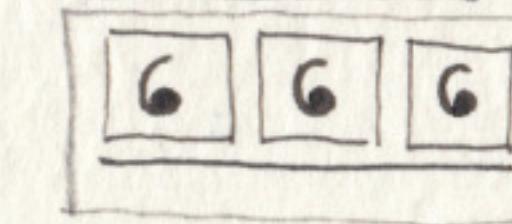
WEEK 40: NEW people!

HOW TO READ IT:

Every symbol
is a new
person I talked
to during this
week (no waitresses/
sales people included)

people are arranged in
chronological order

ATTRIBUTES:



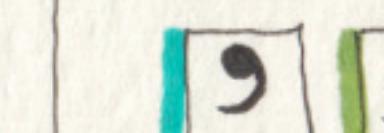
line below indicates
I met them together/
they were together

A
new person
I never met
before:



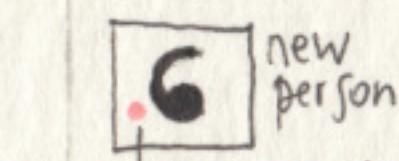
man
woman
(or at least I
didn't remember
of ☺)

B
reunion =
person I haven't
met in 1 year:

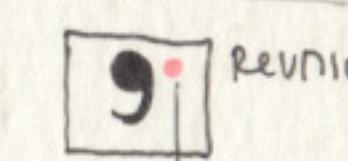


man
woman
(people I regularly
see in NY are not
included!)

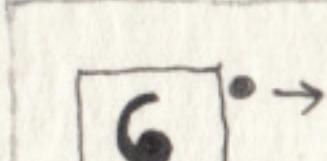
E » I met
them at
EYED!



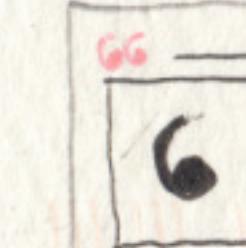
new person
I met them
with you!



reunion
I believe you
know him/her
as well



→ who introduced us
• him/her
• a friend
• you!
x me
— I was supposed to
know them already



66 → they congratulated
me/us about Dear
Data AND/or the
talk



we spoke
more than
just a
INTRO



I was
clearly
TIPSY
when we
first met
☺

MILANO BO
FROM:
Poste Italiane
15.06.11



BROOKLYN
NY - USA
ITALIAN



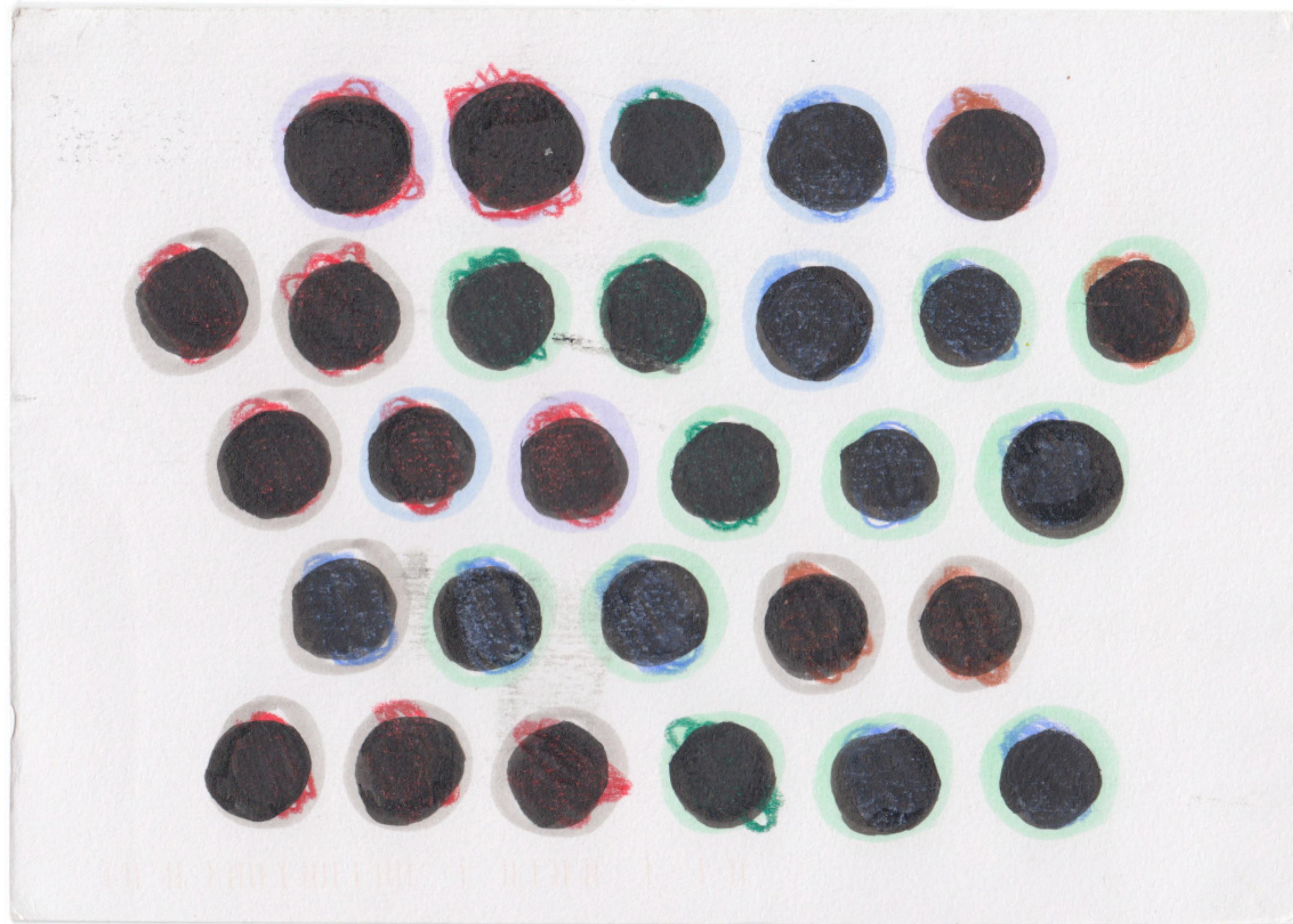
SEND To:

STEFANIE POSAVEC

LONDON

- UK -

ENGLAND



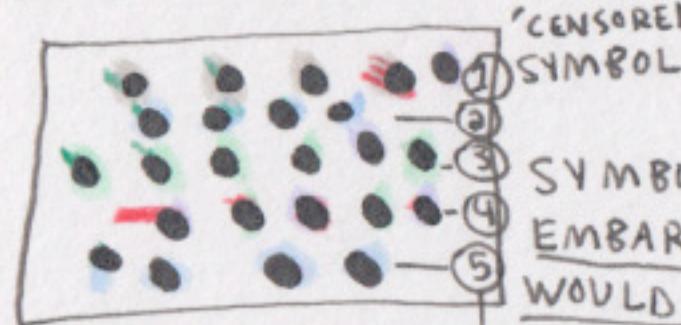
Img src: <https://deardata-deliveries.tumblr.com/>

DEAR DATA - WEEK 51

A WEEK OF PRIVACY

ABOUT THE DATA: ORIGINALLY I WAS TRACKING EVERY MOMENT I WOULDN'T WANT TO SHARE WITH YOU (OR ANYONE ELSE) BUT MY PHONE DIED + I LOST MY DATA. SO, THIS IS A LIST OF MOMENTS THAT I WOULD PREFER TO KEEP PRIVATE FROM LAST WEEK, BUT MADE FROM MEMORY.

HOW TO READ IT:



EACH IS ONE MOMENT FROM THE WEEK THAT I WOULD PREFER TO KEEP PRIVATE.

SYMBOLS ARE ORDERED BY HOW EMBARRASSED / UNCOMFORTABLE I WOULD FEEL IF YOU KNEW WHAT

D ORDERED FROM ①-⑤ THESE MOMENTS WERE!

TYPE OF MOMENT I WANTED TO KEEP PRIVATE + WITH ① = I WOULDN'T BE TOO EMBARRASSED

WITH ⑤ = I WOULD BE VERY EMBARRASSED / UNCOMFORTABLE

IF I HAD TO SHARE THIS MOMENT, WHO I WOULD BE WILLING TO SHARE IT WITH:

MORE PRIVATE NO ONE BUT ME.

MY HUSBAND

MY FRIENDS (+ ALL ABOVE)

MY PARENTS (+ ALL ABOVE)

LESS PRIVATE

FROM:
S.POSAVEC

UK
stroke
association

Royal Mail
Mount Pleasant
Mail Centre
02-09-2015
34102357



TO: GIORGIA LUPI

BROOKLYN, NY 11249
USA

BY AIR MAIL
par avion

Royal Mail®

Img src: <https://deardata-deliveries.tumblr.com/>



Img src: <https://truth-and-beauty.net/projects/oecd-better-life-index>

Homework and Resources

Assignment

- Refer to Week 4 Slides for D3 HW 2 assignment instructions
- Optional, play around with the extra code files on shapes and transforms

Additional Resources

- Dear Data: <https://deardata-deliveries.tumblr.com/> (inspiration)
- MDN “Paths” <https://developer.mozilla.org/en-US/docs/Web/SVG/Tutorial/Paths>
- MDN “SVG Element Reference” <https://developer.mozilla.org/en-US/docs/Web/SVG/Element>
- MDN “Transform” <https://developer.mozilla.org/en-US/docs/Web/SVG/Attribute/transform>