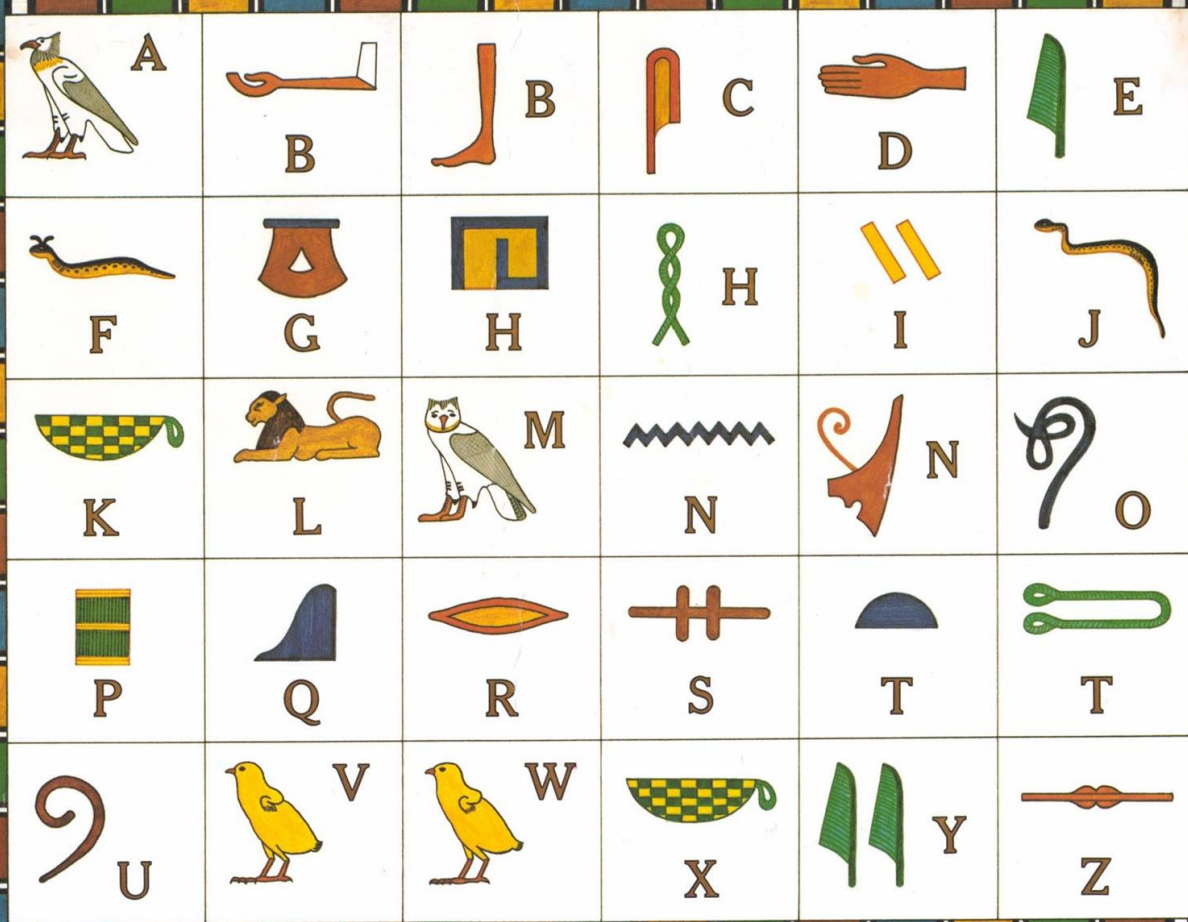


Don't tell me show me



Nikhil Deshpande



芸

ART

独

ALONE

神

GOD

信

BELIEVE

樂園

PARADISE

夢

DREAM

命

LIFE

心

HEART

地

EARTH

水

WATER

氣

SPIRIT

望

HOPE

森

FOREST

太陽

SUN

月

MOON

真

TRUTH

冬

WINTER

夏

SUMMER

春

SPRING

防

PROTECT

19 And when even was come, as they
be went out of the city, as they
passed by, they saw the fig tree
dried up from the roots.
20 And in the morning, Master
21 And Peter calling to remem-
brance saith unto him, which thou
behold, the fig tree which thou
cursedst is withered away.

22 And Jesus answering saith
unto them, Have faith unto you,
23 For verily I say unto you,
That whosoever shall say unto
this mountain, Be thou removed,
and be thou cast into the sea; and
shall not doubt in his heart, but
shall believe that those things
which he saith shall come to
pass; he shall have whatsoever
he saith.

24 Therefore I say unto you,
What things soever ye desire,
when ye pray, believe that ye
receive them, and ye shall have
them.
25 And when ye stand praying,
if ye have ought against

30 And they answered him,
31 And they answered him,
32 But if we shall say unto
men, Stand here, and thou
stand here, and thou stand
here, and thou stand here,
33 And they answered him,
34 And they answered him,
35 And they answered him,
36 And they answered him,
37 And they answered him,
38 And they answered him,
39 And they answered him,
40 And they answered him,
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42 And they answered him,
43 And they answered him,
44 And they answered him,
45 And they answered him,
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88 And they answered him,
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93 And they answered him,
94 And they answered him,
95 And they answered him,
96 And they answered him,
97 And they answered him,
98 And they answered him,
99 And they answered him,
100 And they answered him,

CHAPTER 12

1 And he began to speak
them by parables. A certain
man planted a vineyard, and
an hedge for the vineyard, and
place for the winefat, and
a tower, and let it out to
bandmen, and went into
country. (rented)
2 And at the season he sent
the husbandmen a servant,
he might receive from the



GEORGIA GOV



3903116472123231024825780024611122
6962515271492656463815752485226008
7111074269982552257972603660831523
4742099495292526907341691567475649
6127937898033069445806757678838272
0022900221443436211066176416362506
4875976078424619286765999085353411
5252275251603149640761886987265609
9500821893760621187049457817342981
9981953037786089170069878432298750

9 8 7 8 4 5 6 4 9 6 8 9
8 7 4 9 5 5 6 4 9 4 8 2
3 1 4 6 7 8 5 1 2 3 4 9 6
8 7 9 6 7 5 6 8 1 3 2 3
4 1 5 8 7 8 9 9 5 2 3 3
2 6 5 8 5 5 6 9 6 7 8 8

How many 9s?

9 8 7 8 4 5 6 4 9 6 8 9
8 7 4 9 5 5 6 4 9 4 8 2
3 1 4 6 7 8 5 1 2 3 4 9 6
8 7 9 6 7 5 6 8 1 3 2 3
4 1 5 8 7 8 9 9 5 2 3 3
2 6 5 8 5 5 6 9 6 7 8 8

9 8 7 8 4 5 6 4 9 6 8 9
8 7 4 9 5 5 6 4 9 4 8 2
3 1 4 6 7 8 5 1 2 3 4 9 6
8 7 9 6 7 5 6 8 1 3 2 3
4 1 5 8 7 8 9 9 5 2 3 3
2 6 5 8 5 5 6 9 6 7 8 8

PROXIMITY



Most people see rows on the left and columns on the right.

SIMILARITY



Most people see a larger group containing a sub-group.

FIGURE GROUND



Most people first see a vase or a face then flip between the two.

CONTINUATION



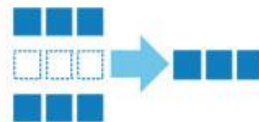
Most people see 2 rows crossing rather than for lines meeting at a single point.

CLOSURE



Most people see the white triangle not the 3 circles with segments missing.

COMMON FATE

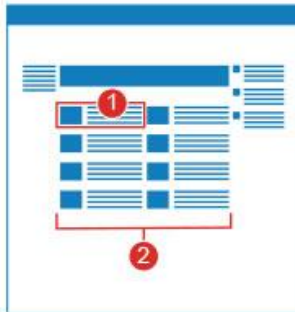


Objects moving in a similar direction are perceived as belonging together.

Examples:



Elements that are closer together are perceived as being more related compared to those spaced further apart. In this example the spacing between the main text (1) and the supporting image (2) means they are perceived as different. However the close spacing of their individual component parts indicates relatedness.



Web parts that look similar are perceived as being grouped together or related.

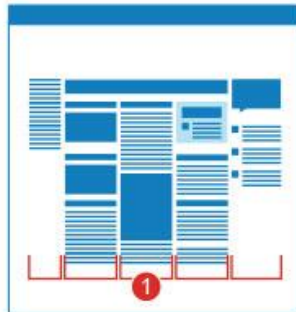
This image and text (1) are perceived together as a single item.

Also the similarity of all the (similar) items (in close proximity) means they are collectively perceived as being related into a



We automatically perceive objects as being in the foreground, (figure) or in the background (ground). Anything we perceive as foreground tends to be prominent and our main focus of attention.

The images in this banner appear in the foreground (figure) standing out from the solid coloured background (ground).



We tend to perceive contours as objects. In this way we perceive lines continue in an established direction (even when they don't).

In this example the 5 column layout (1) is easily perceived even though the actual vertical grid lines that define the layout are invisible. This is because the elements are correctly sized to snap to individual (invisible)



When we perceive a pattern the gaps (1) between the objects (negative or white space) are just as important as the objects themselves (positive). We tend to look for whole or complete objects by closing shapes to form complete objects, (even if the object isn't really there).

The negative and positive space in these icons (2) works together

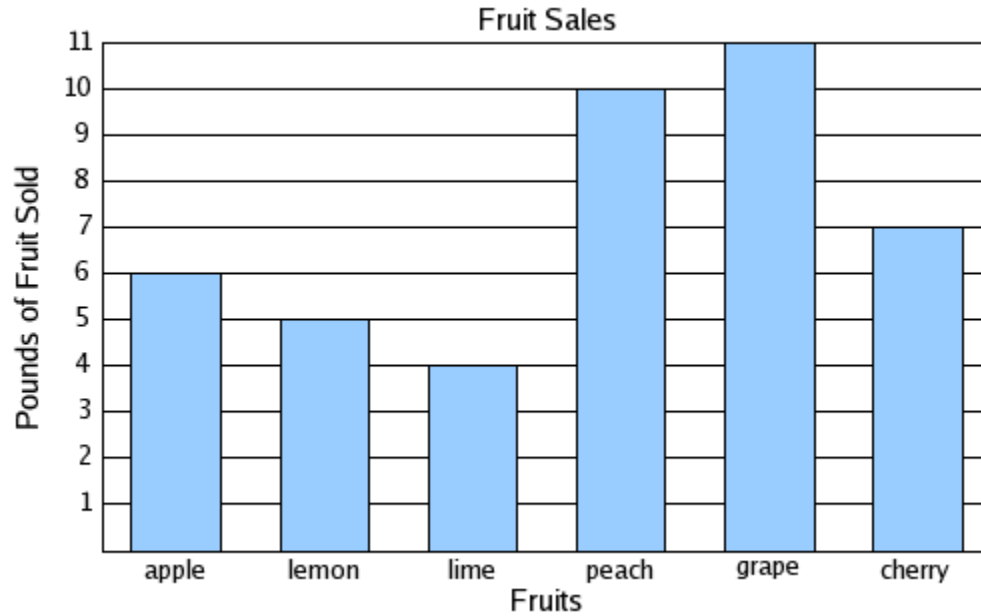


When objects move in the same direction we perceive them to be related and moving on an invisible path. Even if objects seem to appear (move) as a result of a deliberate action (like a tool-tip appearing as a mouse pointer hovers over an object).

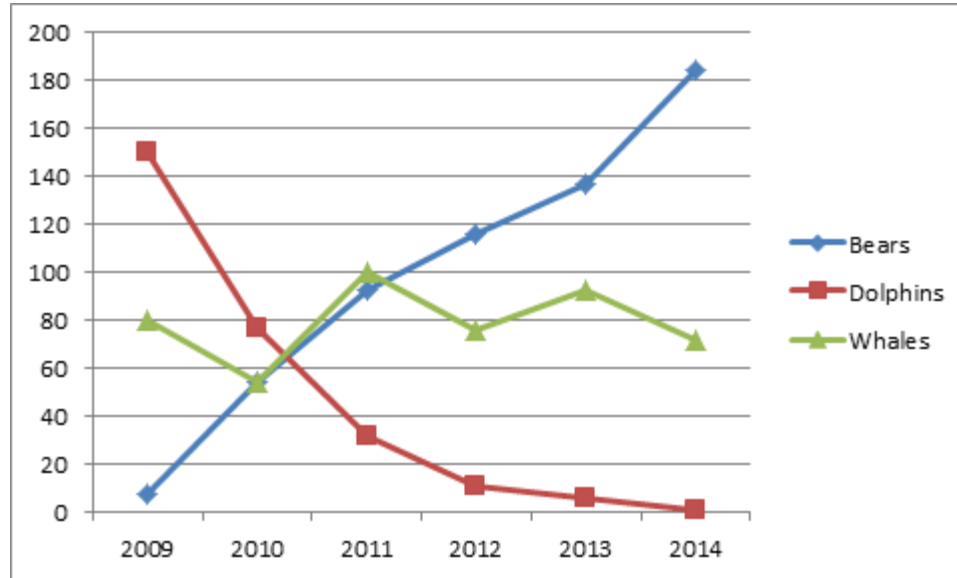
The tool-tip (1) appears (seems to move into view) as the object is hovered over, making the

How to visualize data?

Bar Graphs

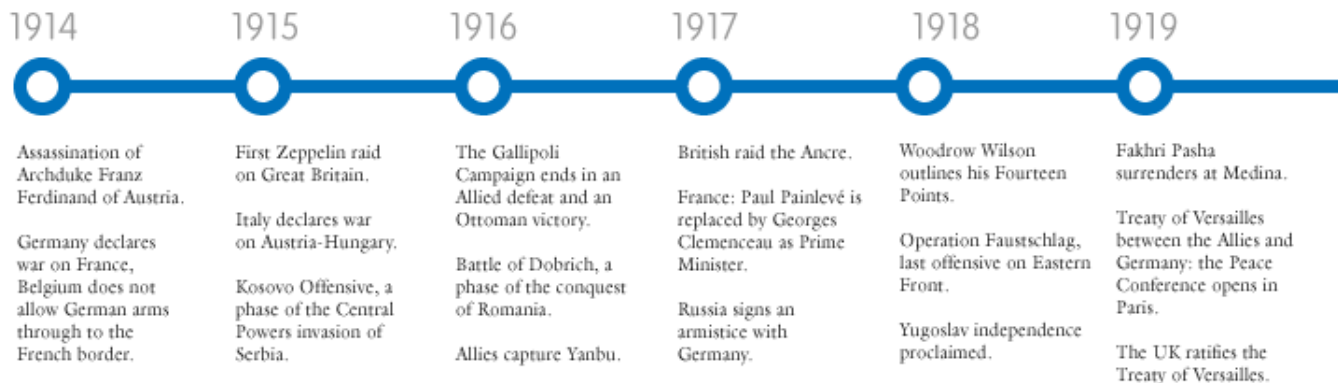


Line Charts

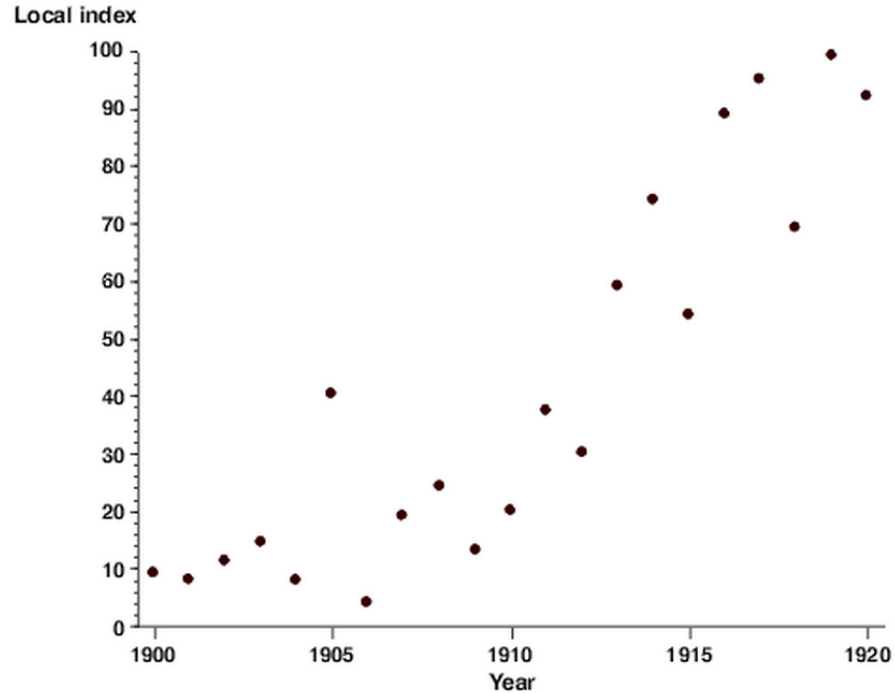


Timeline

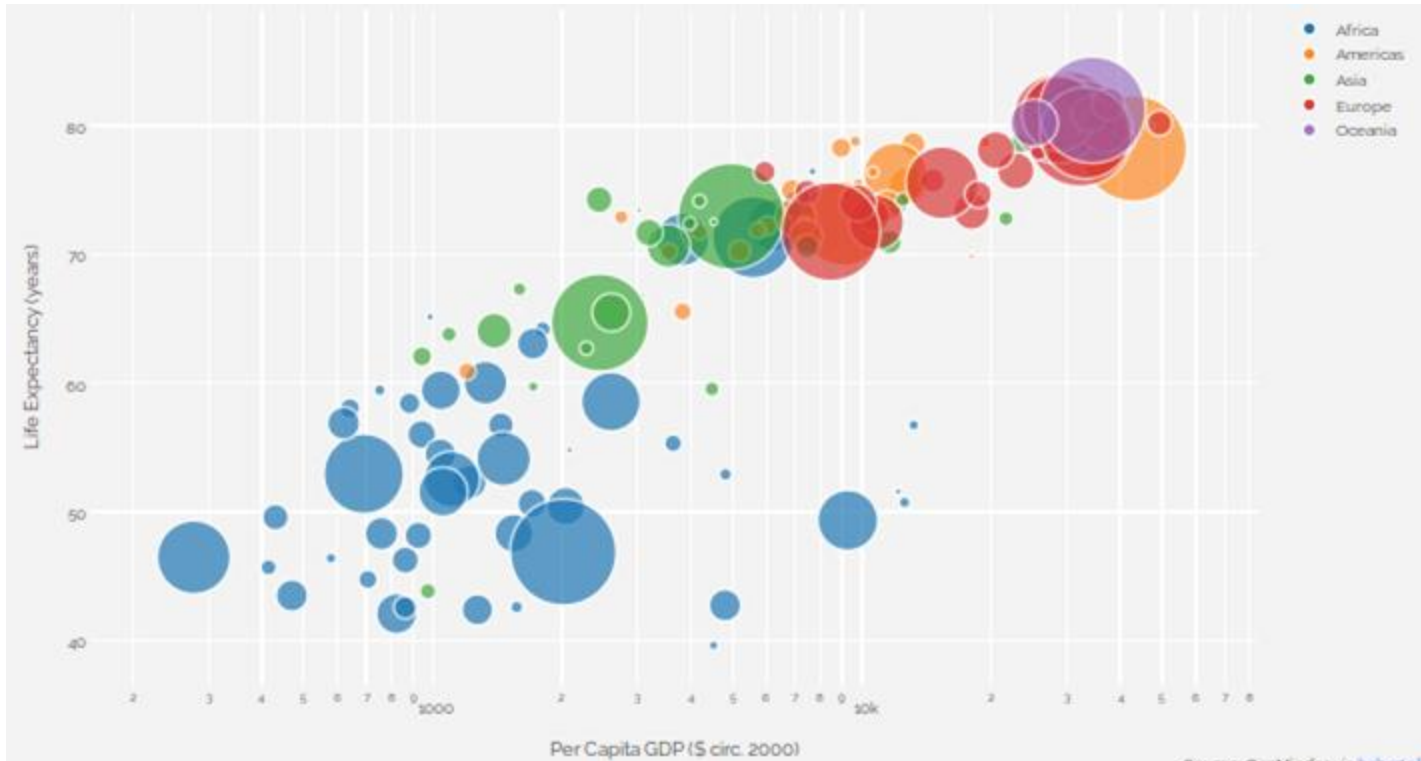
Timeline of World War I



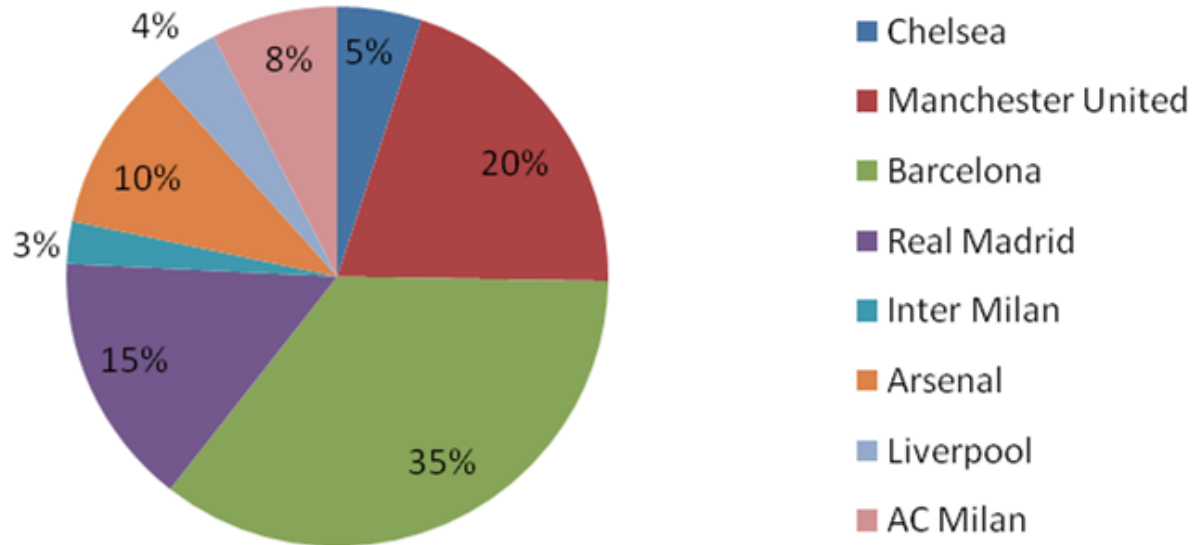
Scatterplot



Bubble chart



Pie chart

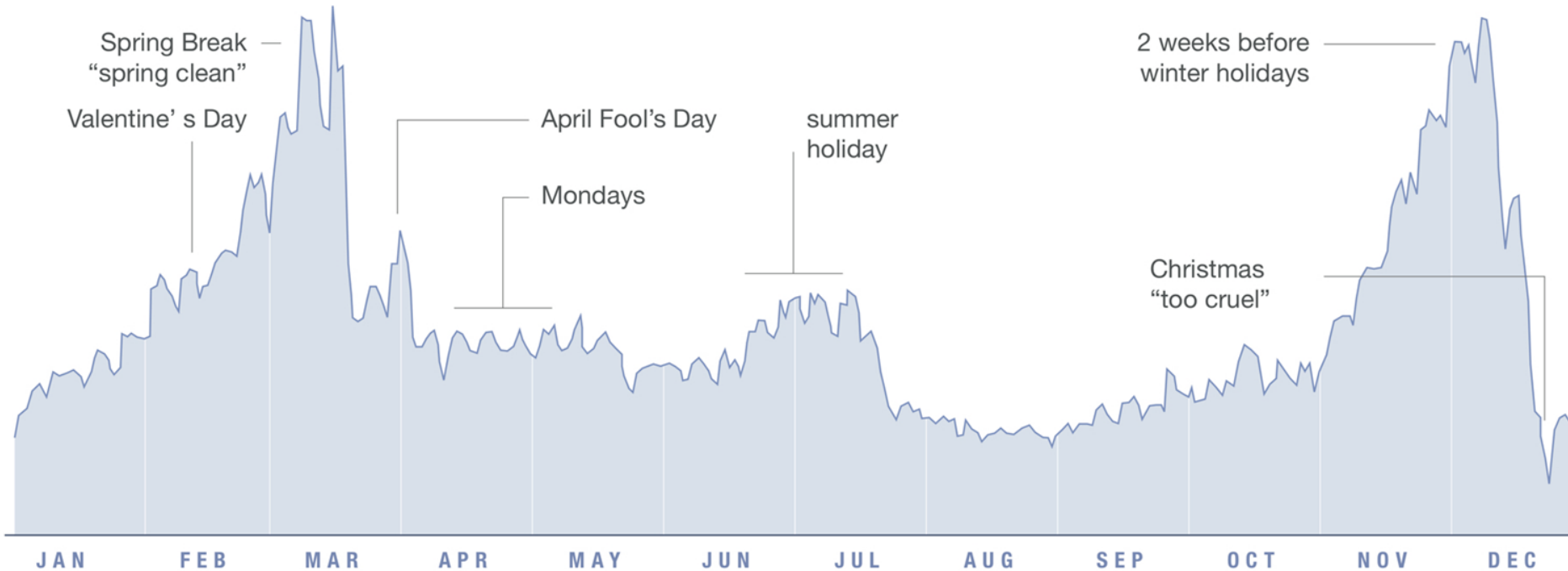


9 8 7 8 4 5 6 4 9 6 8 9
8 7 4 9 5 5 6 4 9 4 8 2
3 1 4 6 7 8 5 1 2 3 4 8 6
8 7 9 6 7 5 6 8 1 3 2 3
4 1 5 8 7 8 9 9 5 2 3 3
2 6 5 8 5 5 6 9 6 7 8 8



David McCandless & Lee Byron

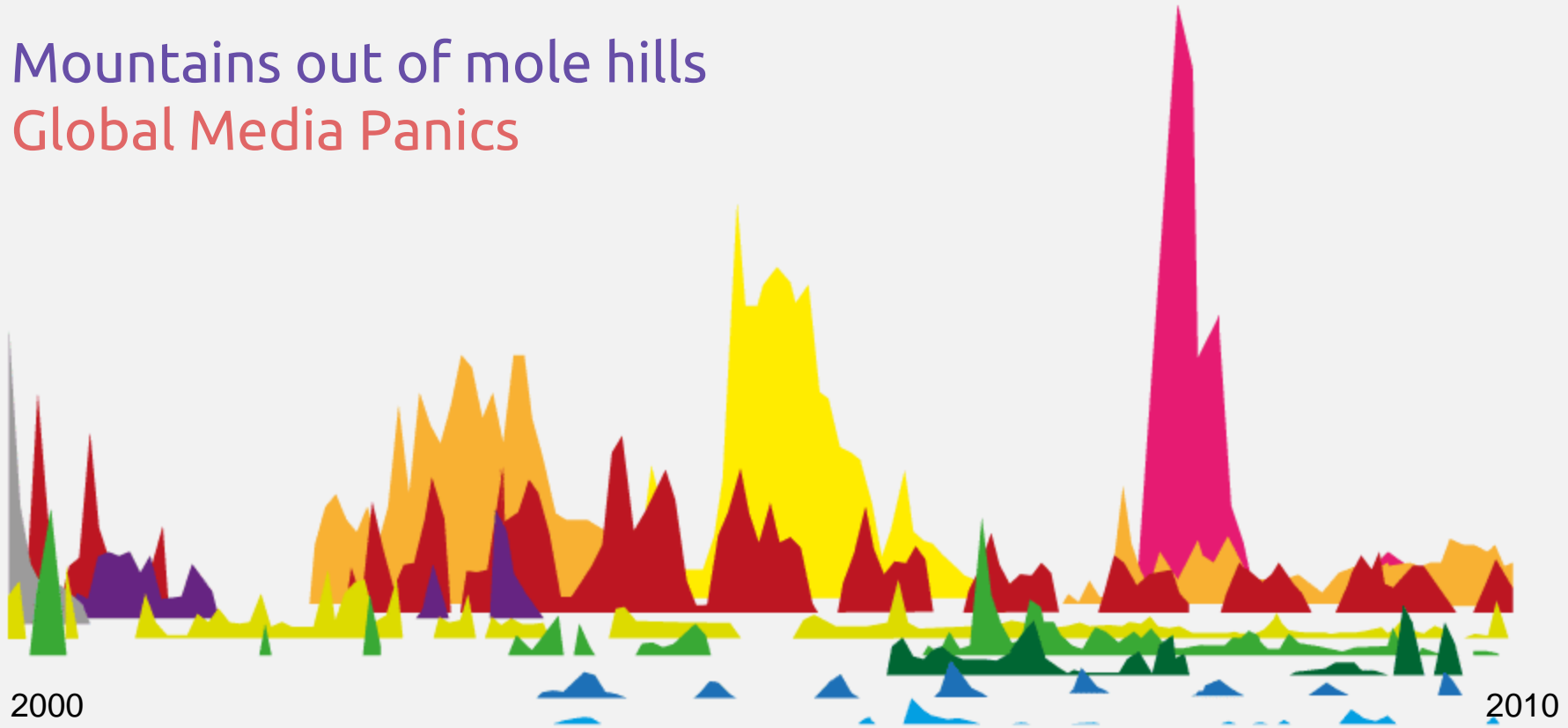
Peak breakup times per Facebook status updates



David McCandless & Lee Byron

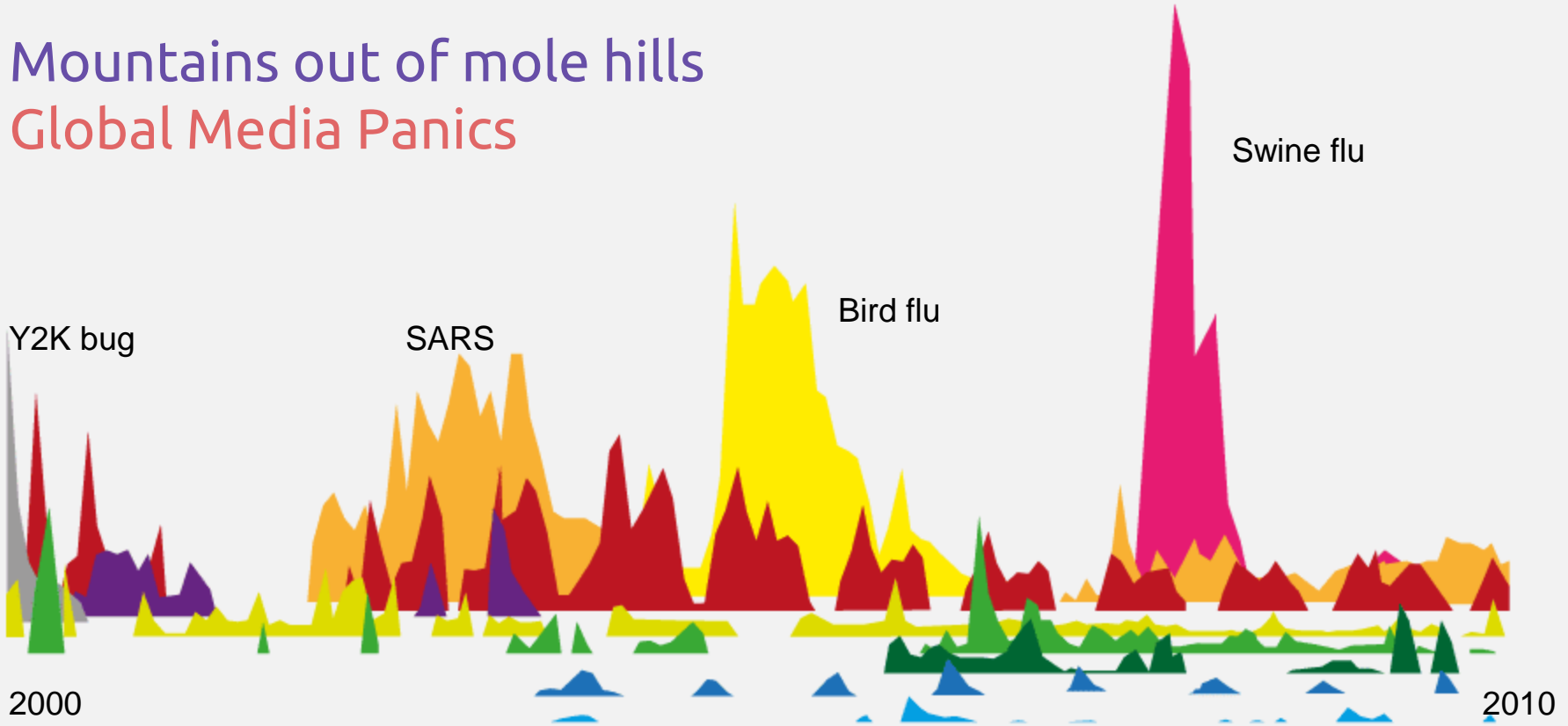
Mountains out of mole hills

Global Media Panics

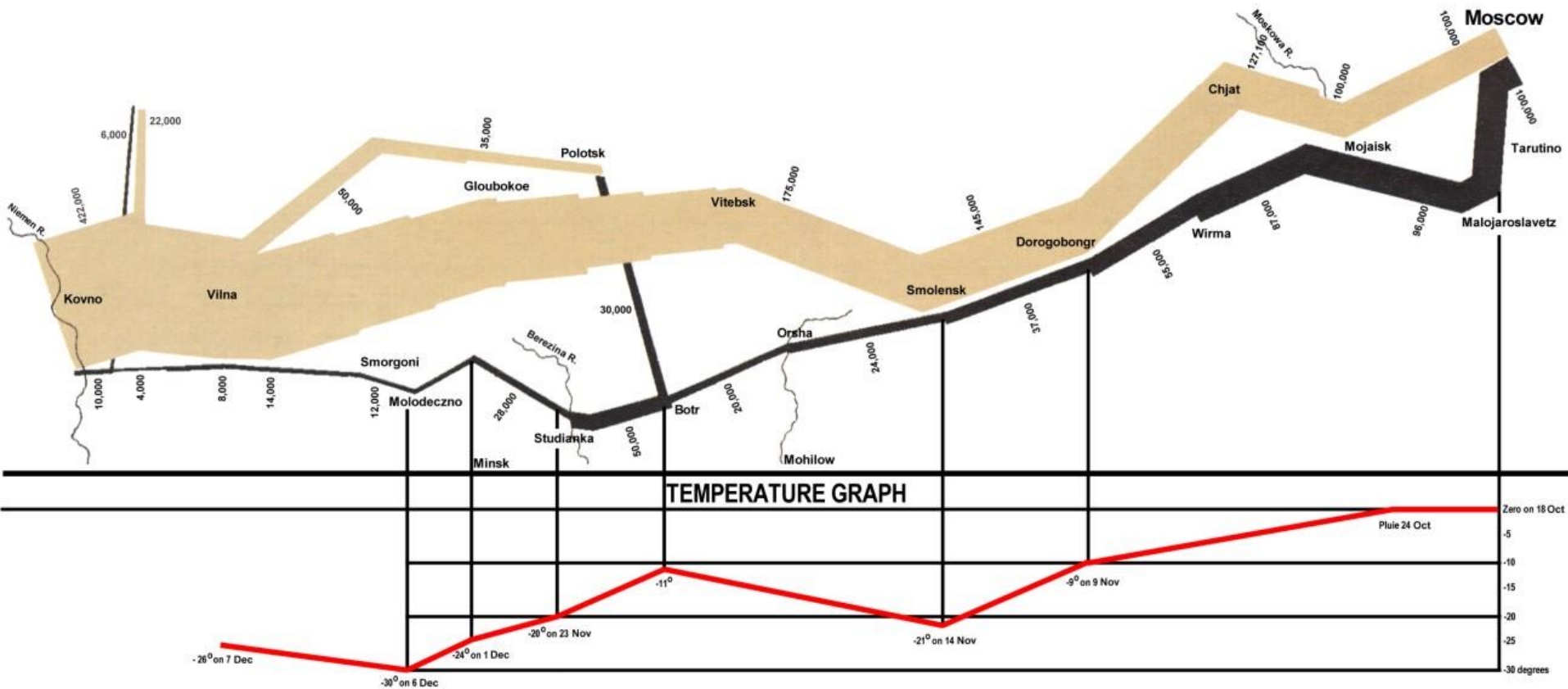


Mountains out of mole hills

Global Media Panics



Complex data?

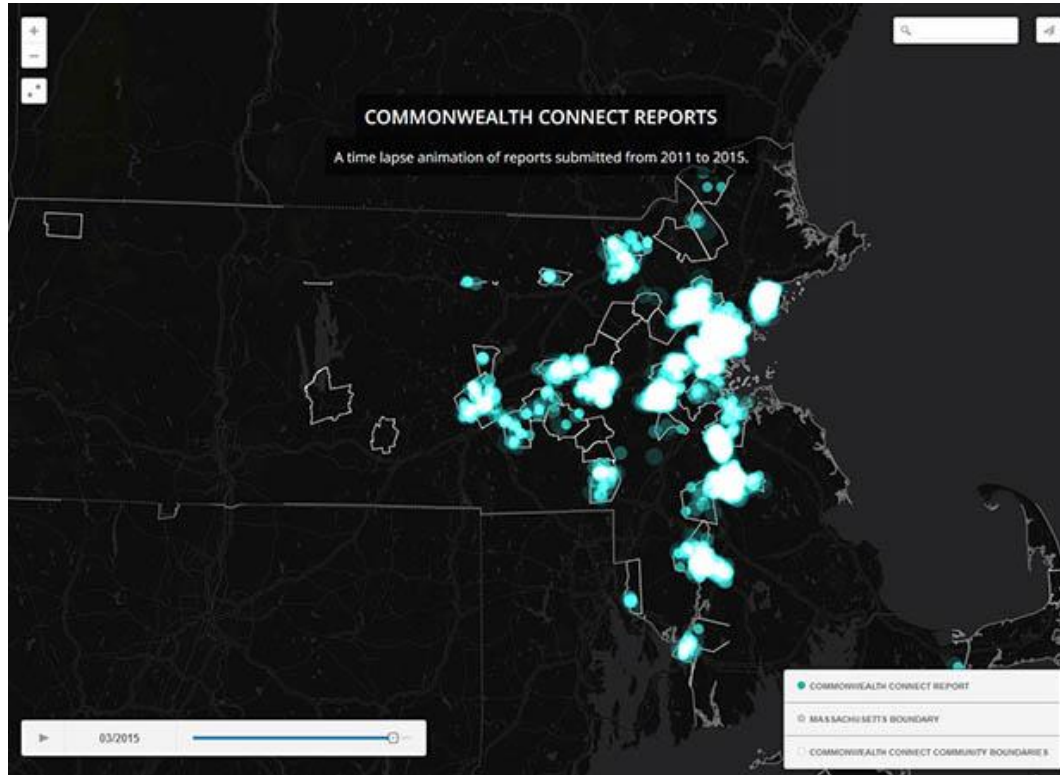


Government data?

Coastal flooding NYC



Commonwealth 311



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- [Georgia's Unemployment Insurance](#)
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Local Information



Technology

Technology

Information
Audience
Context

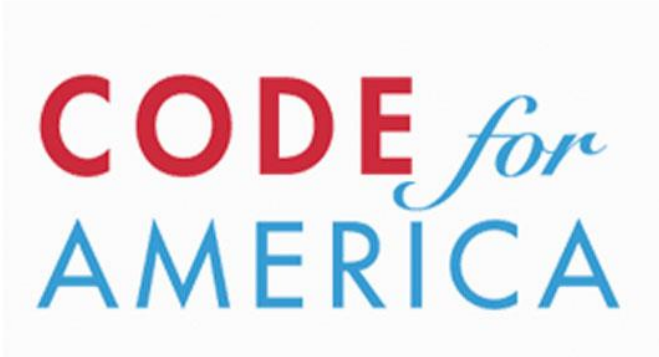
Simple / Complex Support

Welcome to TechCrunch

#hackath_n

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Takeaways:

- Opportunities
- Open raw data from static files
- Advocate data visualization
- Focus on the information
- Find the right tools
- Make a difference

Thank you!