

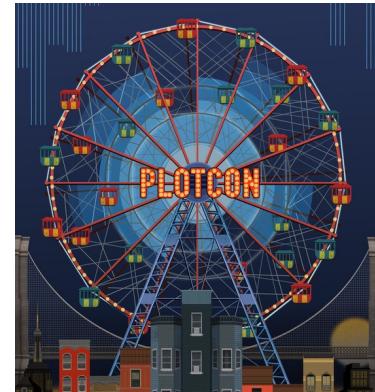
PLOTCON

NOVEMBER 15-18, 2016

#plotcon



POWER OF COMBINATION



KENT RUSSELL ([timelyportfolio](http://timelyportfolio.blogspot.com))

<http://buildingwidgets.com>

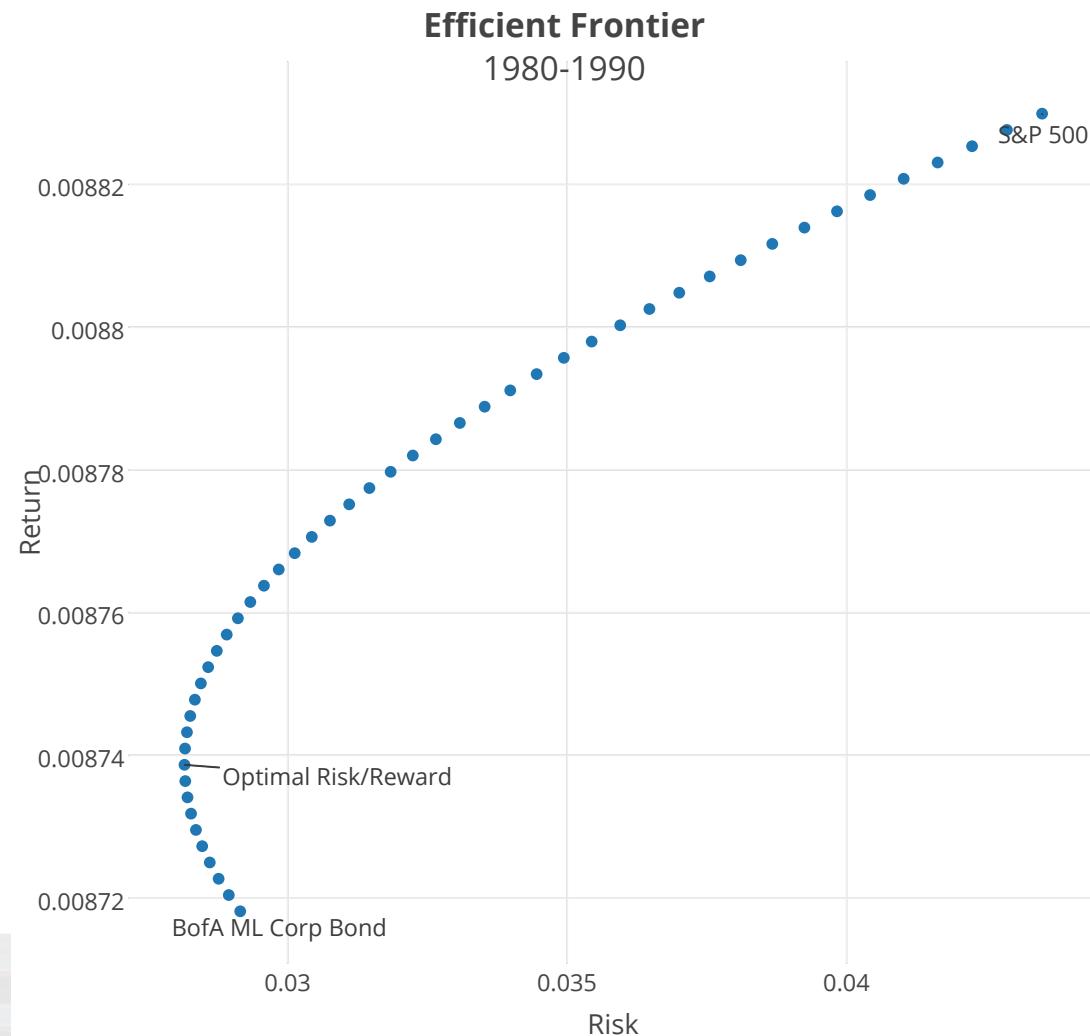
<http://timelyportfolio.blogspot.com>

PLOTCON

power of combination | 1

POWER OF COMBINATION

in finance



- Taught early in finance the power of combination in asset allocation
- Markowitz, Harry
"Portfolio selection"
The journal of finance 7.1 (1952): 77-91.
- Reduce risk by adding a "risky" asset

POWER OF COMBINATION

across what ?

Economics (1948-2009)
by Paul Samuelson

Speculation Occurs Across

1. Time

2. Space

3. Uncertain states of nature

For us

Combination Across

1. Time

2. Space
Geography

Domains/Fields

Programming Languages

3. Psychological State

POWER OF COMBINATION

time

PLOTCON

POWER OF COMBINATION

across time

Lessons From The Past

Nicolas Samuelson Cruquius (Nicolaas Samuelszoon Kruik;
Nicolaus Samuelis Cruquius) (1678-1754)

Homma Munehisa (1724-1803)

William Playfair (1759-1823)

"Hoyle" (1898)

J. R. Dodge

Willard Brinton (1880-1957)

PLOTCON

POWER OF COMBINATION

across time

Nicolas Samuelson Cruquius [Isobath Lines](#)



By Nicolas Samuelson Cruquius (Nicolaas Samuelszoon Kruik; Nicolaus Samuelis Cruquius) [Public domain], via Wikimedia Commons

POWER OF COMBINATION

across time

Homma Munehisa [Candlestick Charts](#)



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POWER OF COMBINATION

across time

"Hoyle" (1898) [Point and Figure Chart](#)

The Game In Wall Street

AND

HOW TO PLAY IT SUCCESSFULLY.

BY

"HOYLE."

(COPYRIGHT 1898 BY J. S. OGILVIE PUBLISHING CO.)

NEW YORK:
J. S. OGILVIE PUBLISHING COMPANY,
57 ROSE STREET.

**THE MAGAZINE
OF WALL STREET**

INDEX

VOLUME 19

OCTOBER 14, 1916, TO MARCH 23, 1917

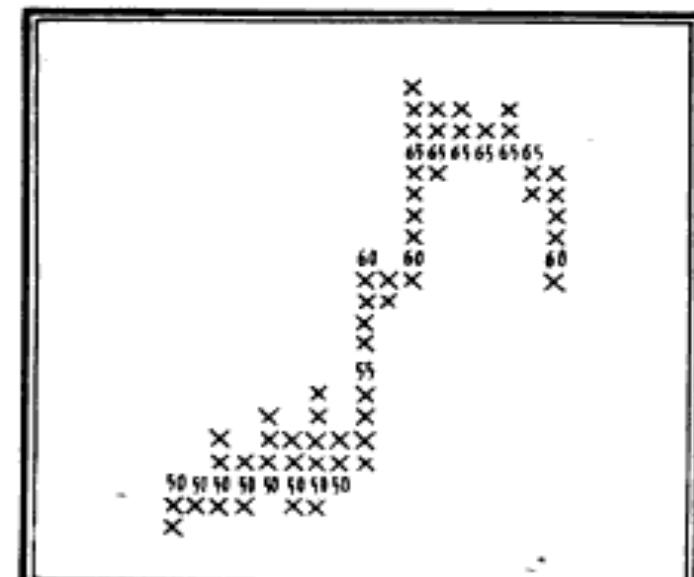
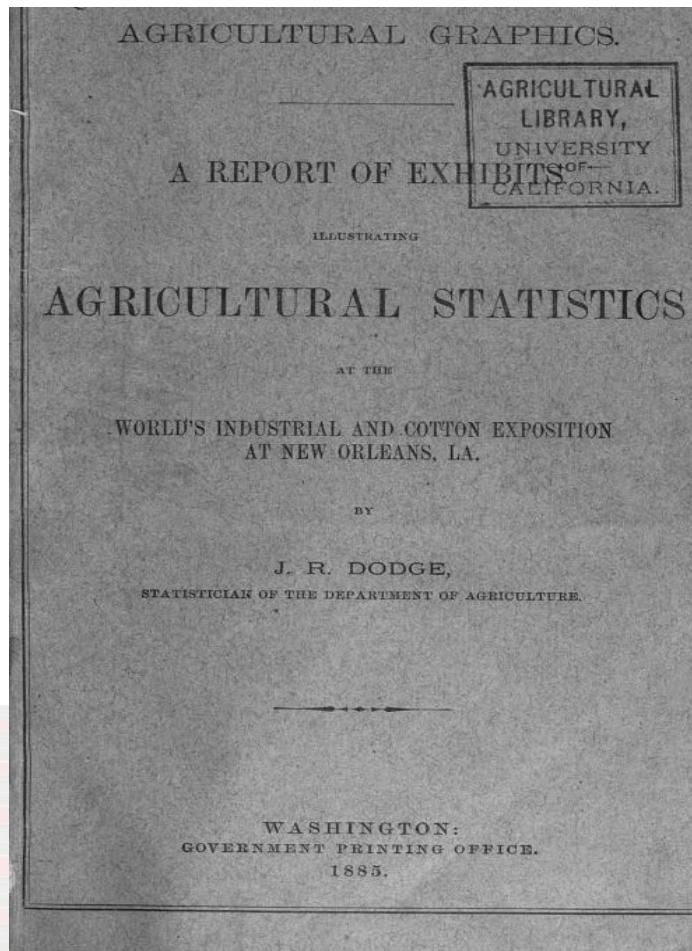


FIGURE VI.

POWER OF COMBINATION

across time

J. R. Dodge (1885)



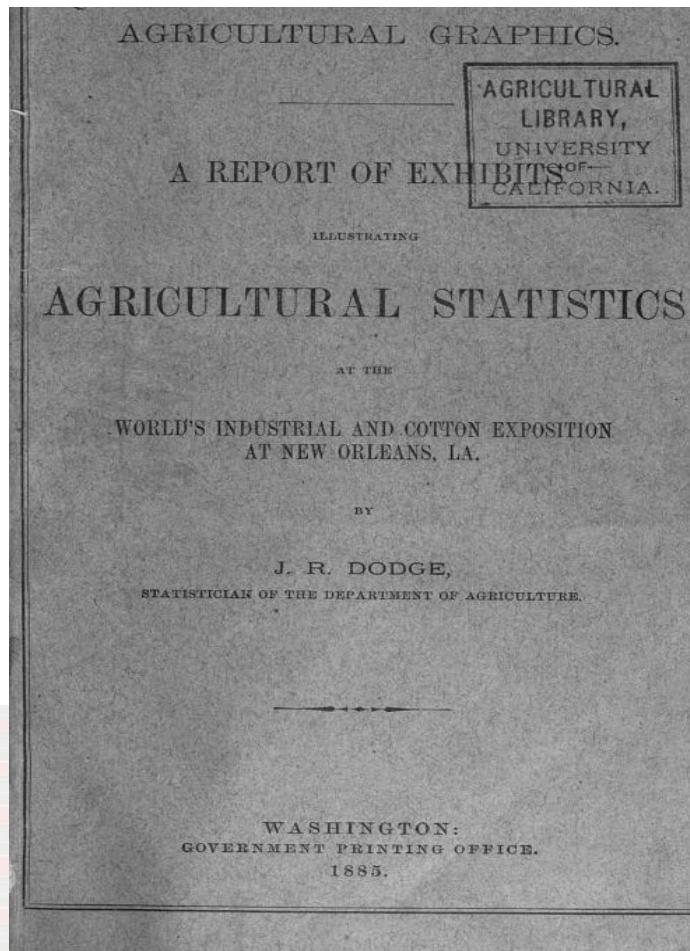
"The best interpreter of statistics, to the popular mind, is the graphic method of illustration. It has been said to be impossible for the human mind to measure accurately and instantly the purport and true extent of a billion. To the ordinary mind the real meaning of figures is dimly perceived. Their examination, therefore, becomes intolerably "dry." It requires a statistical education to prepare one for utilizing fully statistical statements. If the eye, and through it all the perceptive faculties, can aid in measurements and comparisons the thorough understanding of the occult and mysterious figures arrayed in solid and impenetrable phalanx, the help to the novice is invaluable."

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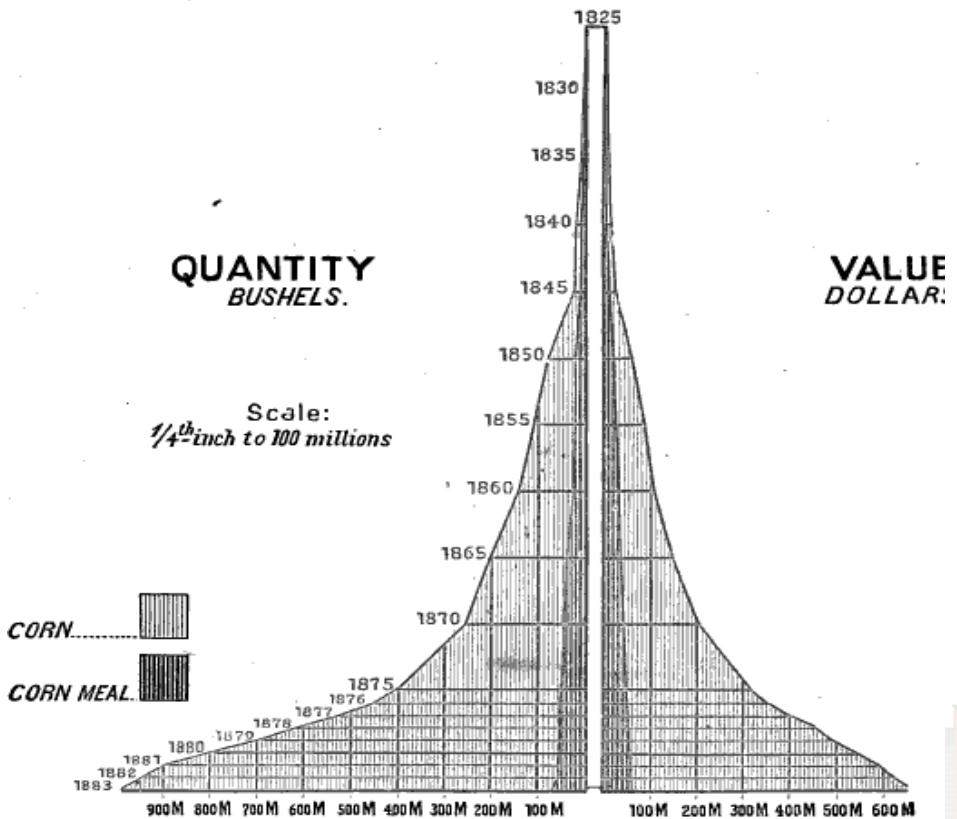
across time

J. R. Dodge (1885)



Export of corn in fifty-eight years.

DIAGRAM XVI

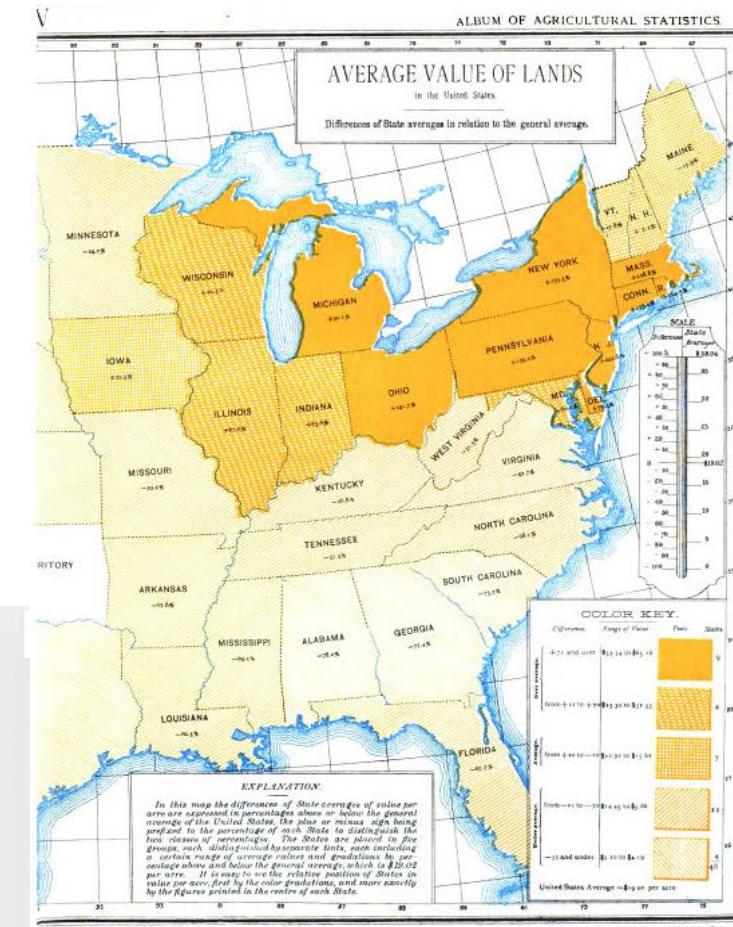
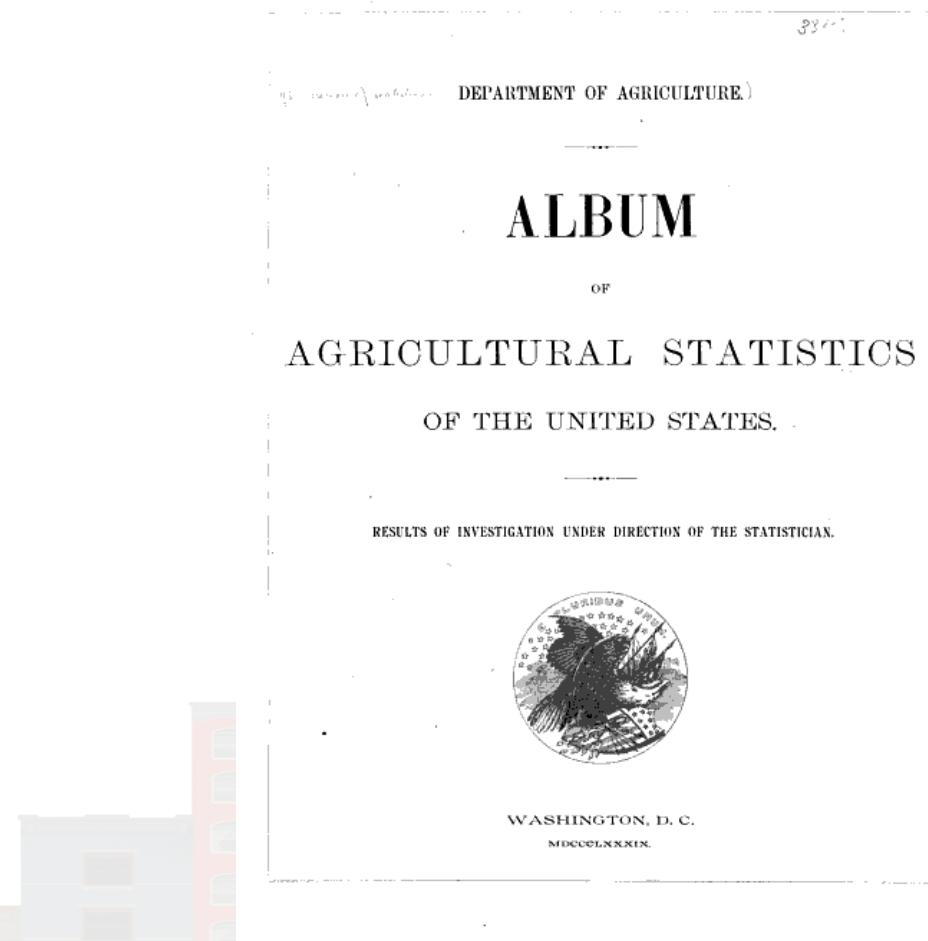


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POWER OF COMBINATION

across time

J. R. Dodge (1889)



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POWER OF COMBINATION

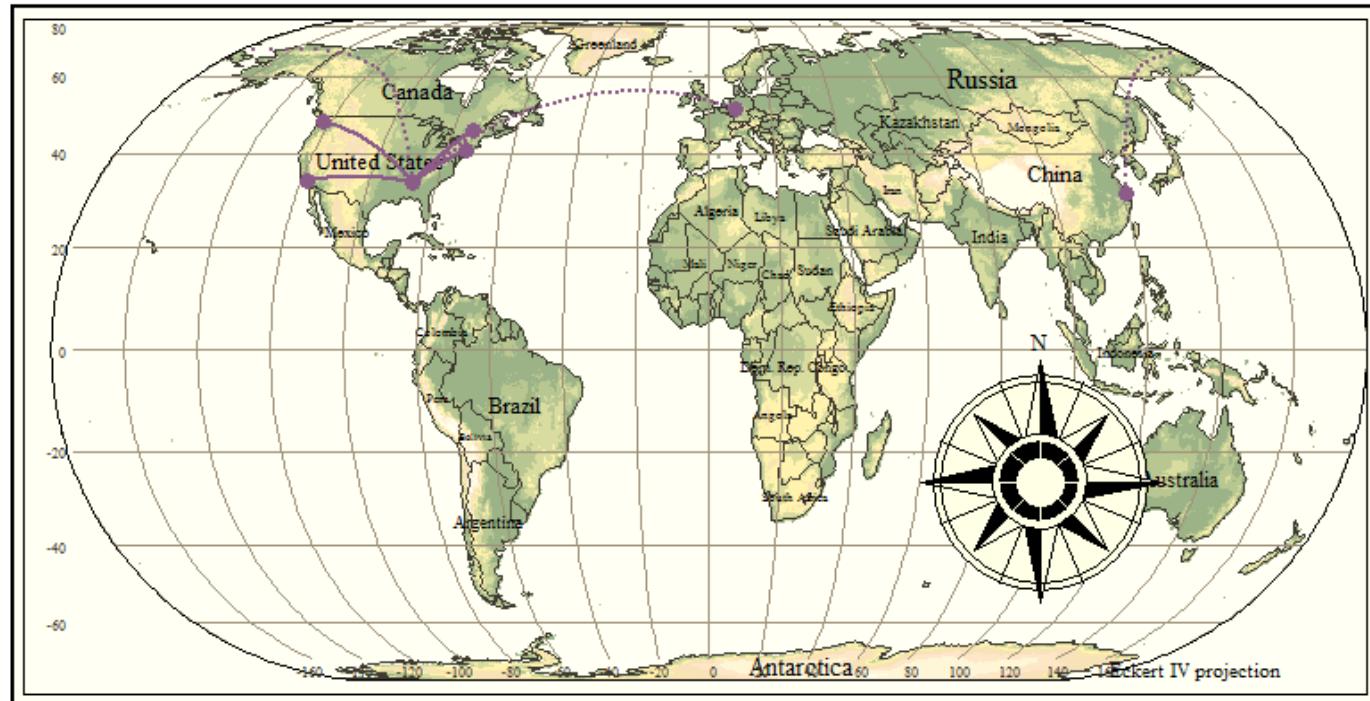
geography

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POWER OF COMBINATION

across space

Geography | R Interactions Subset



POWER OF COMBINATION

across space

Domains

Network

Biostatistics

Medical

Geospatial

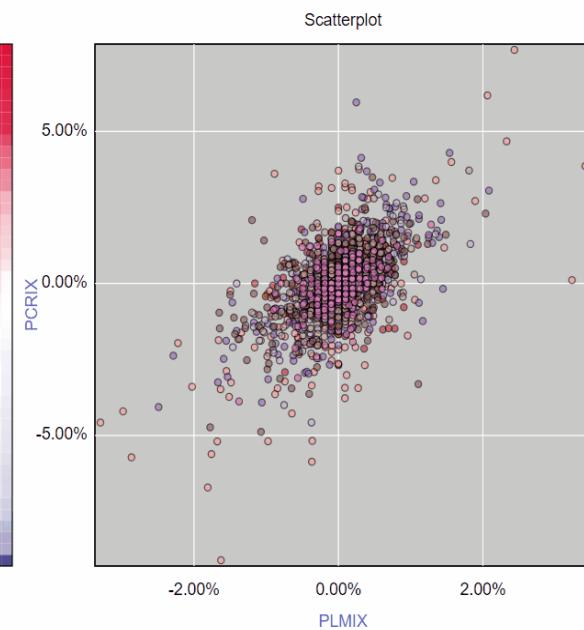
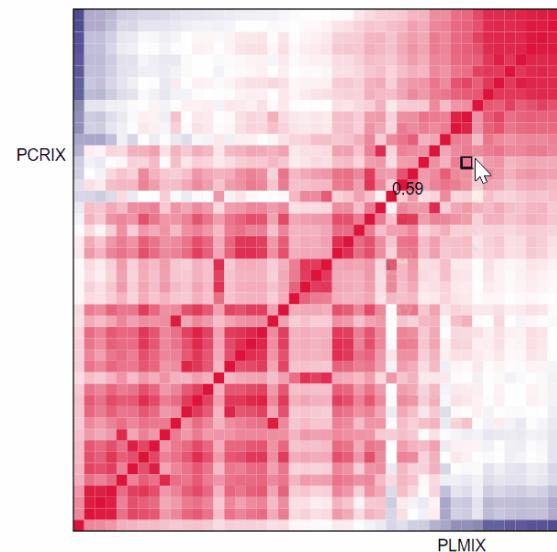
Marketing

Agriculture

timelyportfolio.github.io/d3examples/corr_w_scatter/pimco.html

Correlation matrix with linked scatterplot

Genetics -> Finance



The left panel is an image of a correlation matrix, with blue = -1 and red = +1. Hover over pixels in the correlation matrix on the left to see the values; click to see the corresponding scatterplot on the right.

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POWER OF COMBINATION

across space

Domains

Network

parallel coordinates htmlwidget in Medical

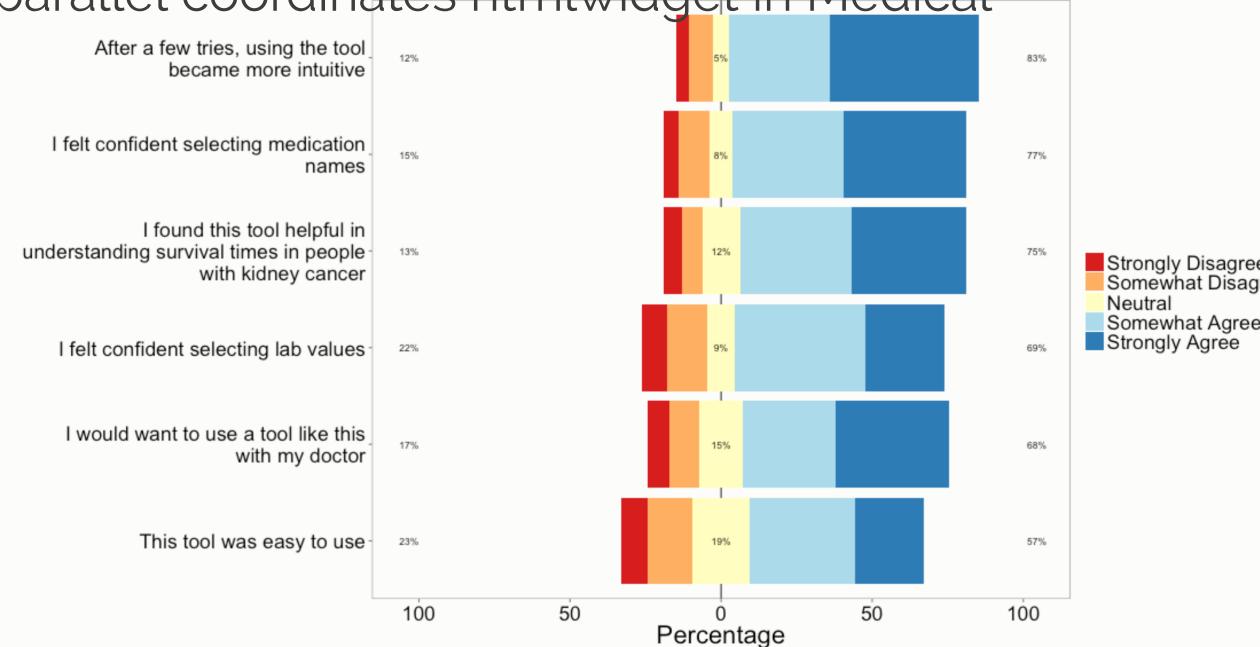
Biostatistics

Medical

Geospatial

Marketing

Agriculture



POWER OF COMBINATION

across programming
languages



PLOTCON

POWER OF COMBINATION

across programming
languages

I have a bit of a problem....



timelyportfolio
timelyportfolio

Overview Repositories
428

Stars

Followers
494 Following
1k

10.8k

Search starred repositories...

Language: All languages ▾

Sort: Recently starred ▾

★ Unstar

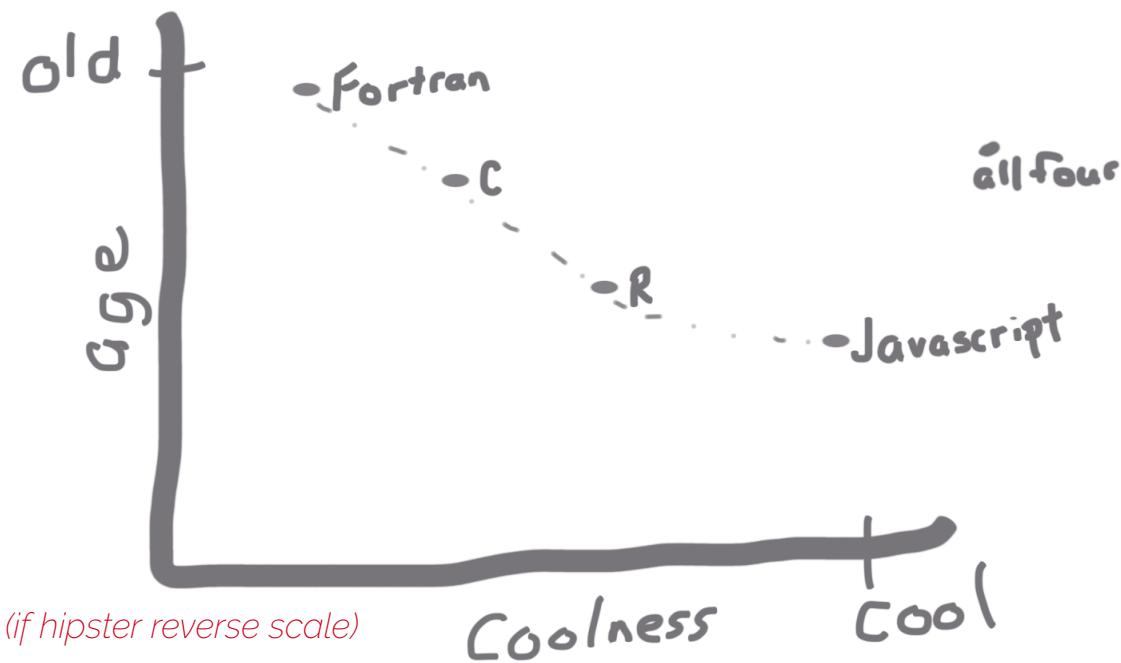
[rcdexta / react-event-timeline](#)

A responsive event timeline in React is

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POWER OF COMBINATION

across programming
languages



POWER OF COMBINATION

state of mind

PLOTCON

POWER OF COMBINATION

across psychological
state

Most Open Source is

... Fragile and Vulnerable

... and Reliant on the
Psychological State
of a Single Developer

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POWER OF COMBINATION

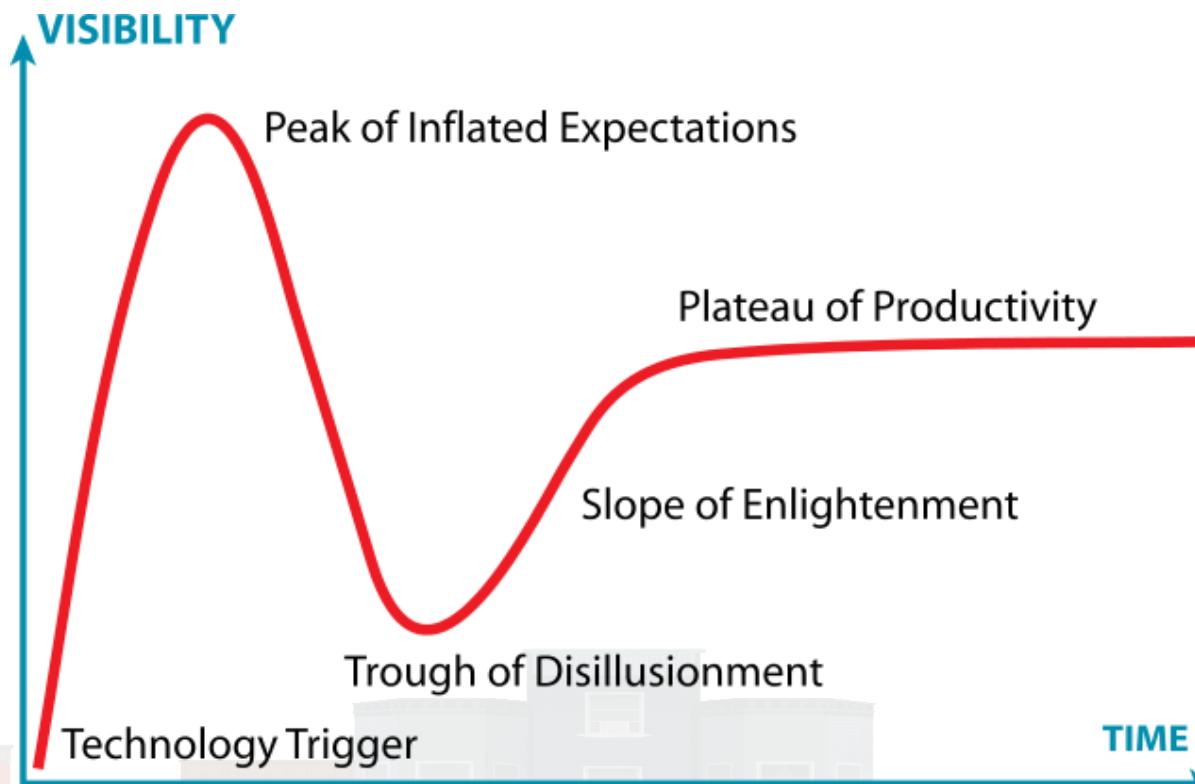
across psychological
state

Who Makes the Open Source You Use?

1. Full-time developers at established companies
2. Paid developer users
3. Academic researchers
4. Passionate volunteers out of a sense for charity, for fun, or some other reason that leads them to believe they should not be paid for their efforts.

POWER OF COMBINATION

across psychological state



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Wikimedia Commons

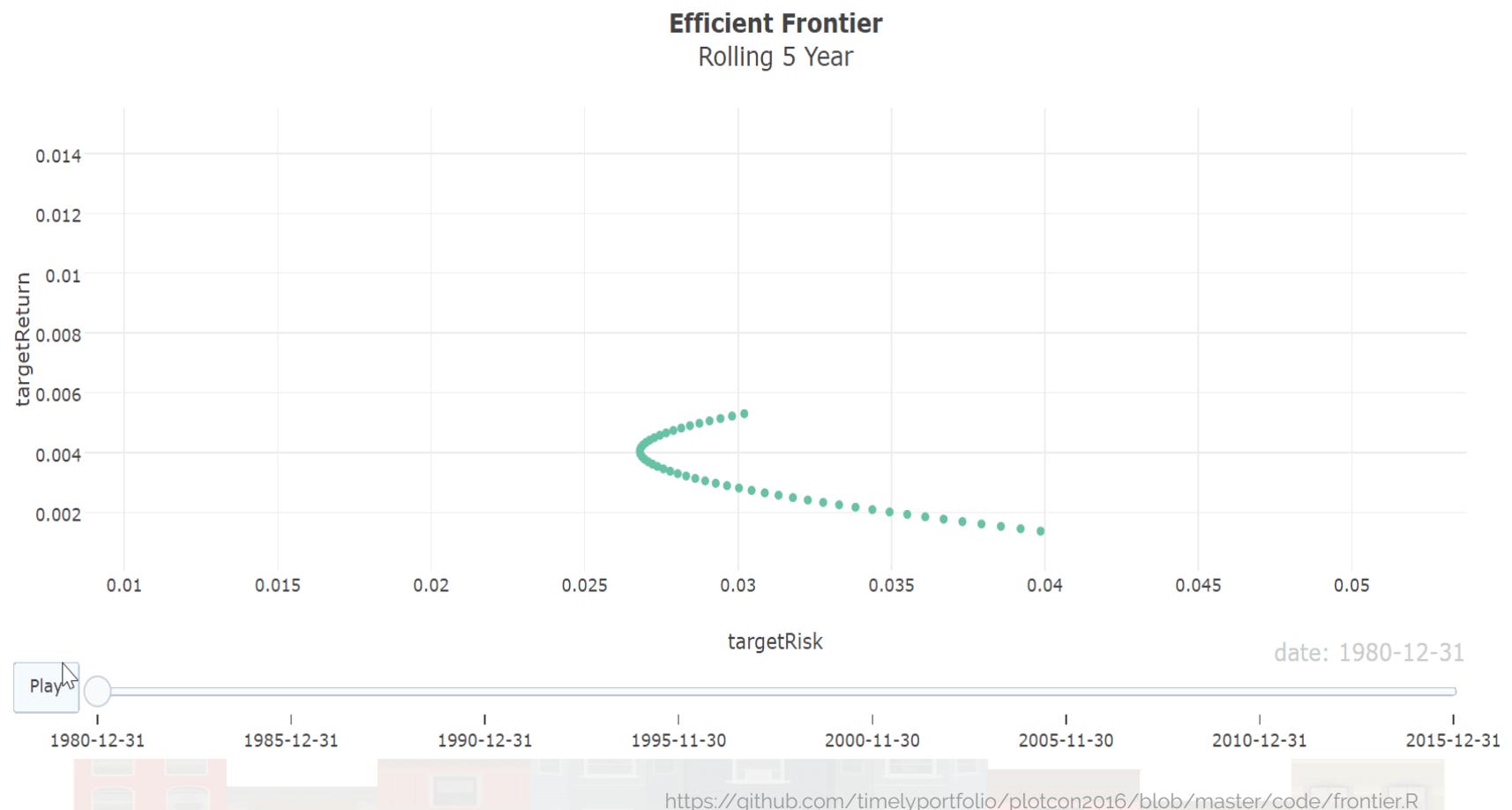
POWER OF COMBINATION

quick examples

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POWER OF COMBINATION

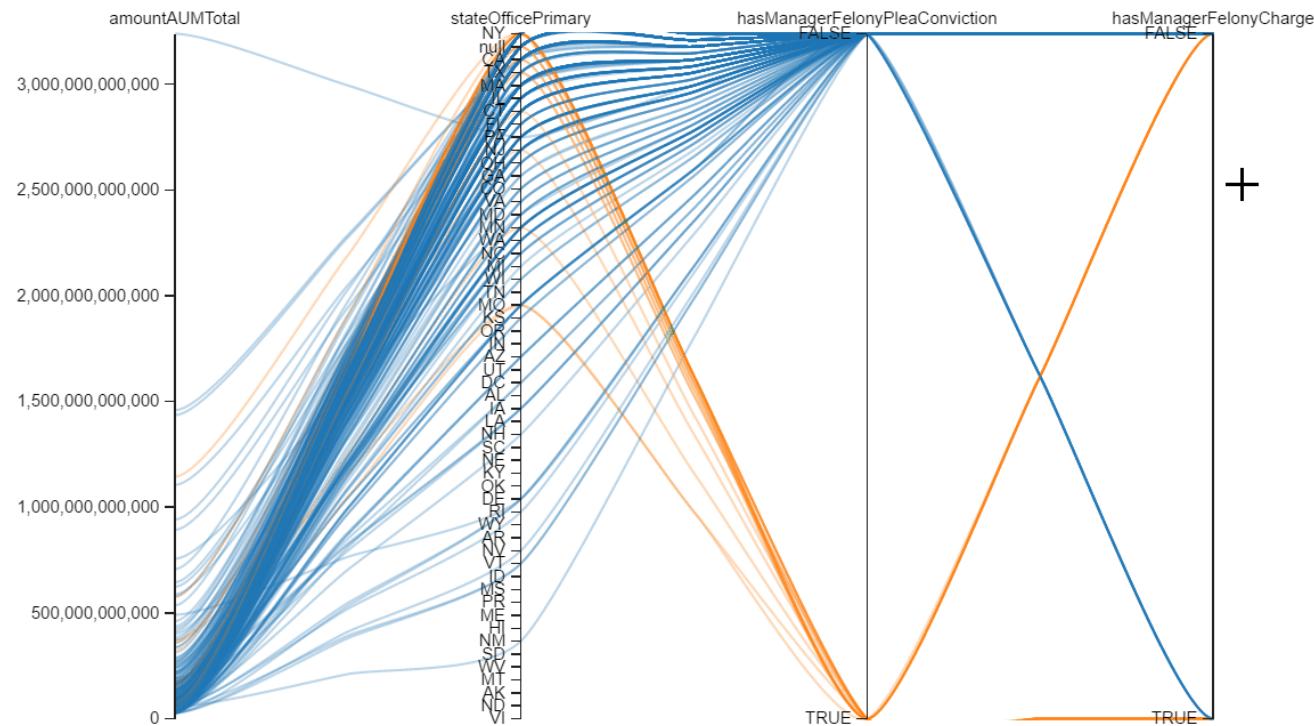
example 1



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POWER OF COMBINATION

example 2



[thanks Alex Bresler for fundManageR](#)

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let's combine



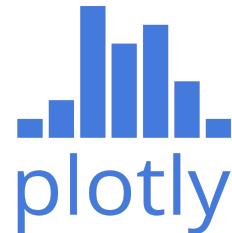
<https://github.com/timelyportfolio>



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