

資料視覺化

Data Visualization

Kirby Wu @ infographics.tw

TAIWAN 2012



Hacker 15

clkao tkirby ca opop

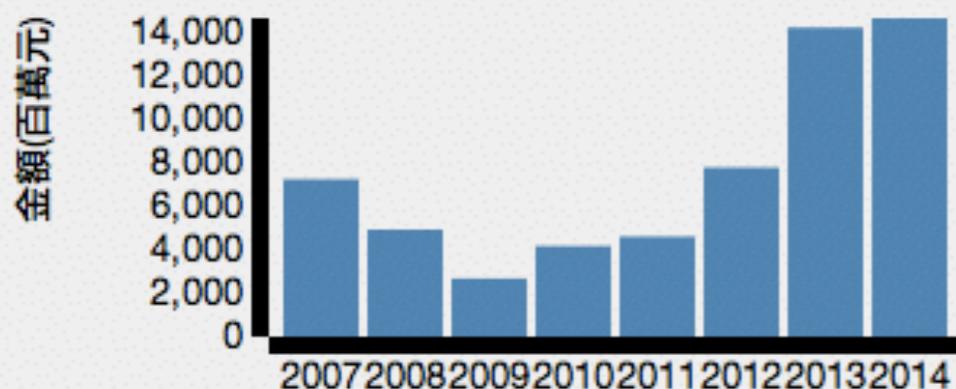
款項	項目	節	科目編號	科目名稱	本年度預算數	上年度預算數	前年度決算數	本年度與上年度比
4	16	3	3505421200	少年事件處理	7,859	5,723	5,417	2,
4	16	4	3505421400	公體及提存事件處理	882	882	816	
4	16	5	3505429000	一般建築及設備	4,717	4,120	11,562	
4	16	6	3505429800	第一預備金	390	390	-	
4	17		3505430000	臺灣板橋地方法院	1,195,306	1,162,094	1,076,538	33,
4	17	1	3505430100	一般行政	1,059,499	1,018,290	961,938	41,
4	17	2	3505431000	審判業務	115,673	120,508	94,973	-4,
4	17	3	3505431200	少年事件處理	8,325	8,325	7,647	
4	17	4	3505431400	公體及提存事件處理	819	819	763	
4	17	5	3505439000	一般建築及設備	10,429	13,591	11,216	-3,
4	17	6	3505439800	第一預備金	561	561	-	
4	18		3505470000	臺灣桃園地方法院	915,504	872,453	794,248	43,
4	18	1	3505470100	一般行政	781,760	740,094	683,433	41,
4	18	2	3505471000	審判業務	95,716	111,400	92,985	-15,
4	18	3	3505471200	少年事件處理	13,212	10,031	9,638	3,
4	18	4	3505471400	公體及提存事件處理	1,434	1,434	1,415	
4	18	5	3505478500	司法機關擴遷建計畫	17,242	-	-	17,
4	18	6	3505479000	一般建築及設備	5,800	9,154	6,777	-3,
4	18	7	3505479800	第一預備金	340	340	-	
4	19		3505480000	臺灣新竹地方法院	540,298	486,608	411,091	53,
4	19	1	3505480100	一般行政	401,778	384,363	362,598	17,
4	19	2	3505481000	審判業務	38,841	40,385	35,512	-1,
4	19	3	3505481200	少年事件處理	4,374	4,824	4,382	-
4	19	4	3505481400	公體及提存事件處理	441	441	392	
4	19	5	3505488500	司法機關擴遷建計畫	89,813	54,052	5,748	35,
4	19	6	3505489000	一般建築及設備	4,716	2,208	2,458	2,
4	19	7	3505489800	第一預備金	335	335	-	
4	20		3505490000	臺灣苗栗地方法院	304,773	291,690	272,946	13,
4	20	1	3505490100	一般行政	270,954	256,599	239,574	14,
4	20	2	3505491000	審判業務	25,462	27,882	27,440	-2,
4	20	3	3505491200	少年事件處理	4,193	3,286	3,286	
4	20	4	3505491400	公體及提存事件處理	300	300	297	
4	20	5	3505499000	一般建築及設備	3,337	3,096	2,350	
4	20	6	3505499800	第一預備金	527	527	-	
4	21		3505500000	臺灣臺中地方法院	1,279,652	1,230,455	1,186,429	49,
4	21	1	3505500100	一般行政	1,148,656	1,097,389	1,052,475	51,

i 臺灣鐵路管理局(交通部/營業基金)

147億元(+3.04%)

(即為4億份營養午餐(回扣))

連結到此項 :<http://budget.g0v.tw/budget/6029018020>



例如: 林益世

標記相關人士

林益世 工研院

透過按一下表達你對於此預算的看法！

6人



1人



8人



3人

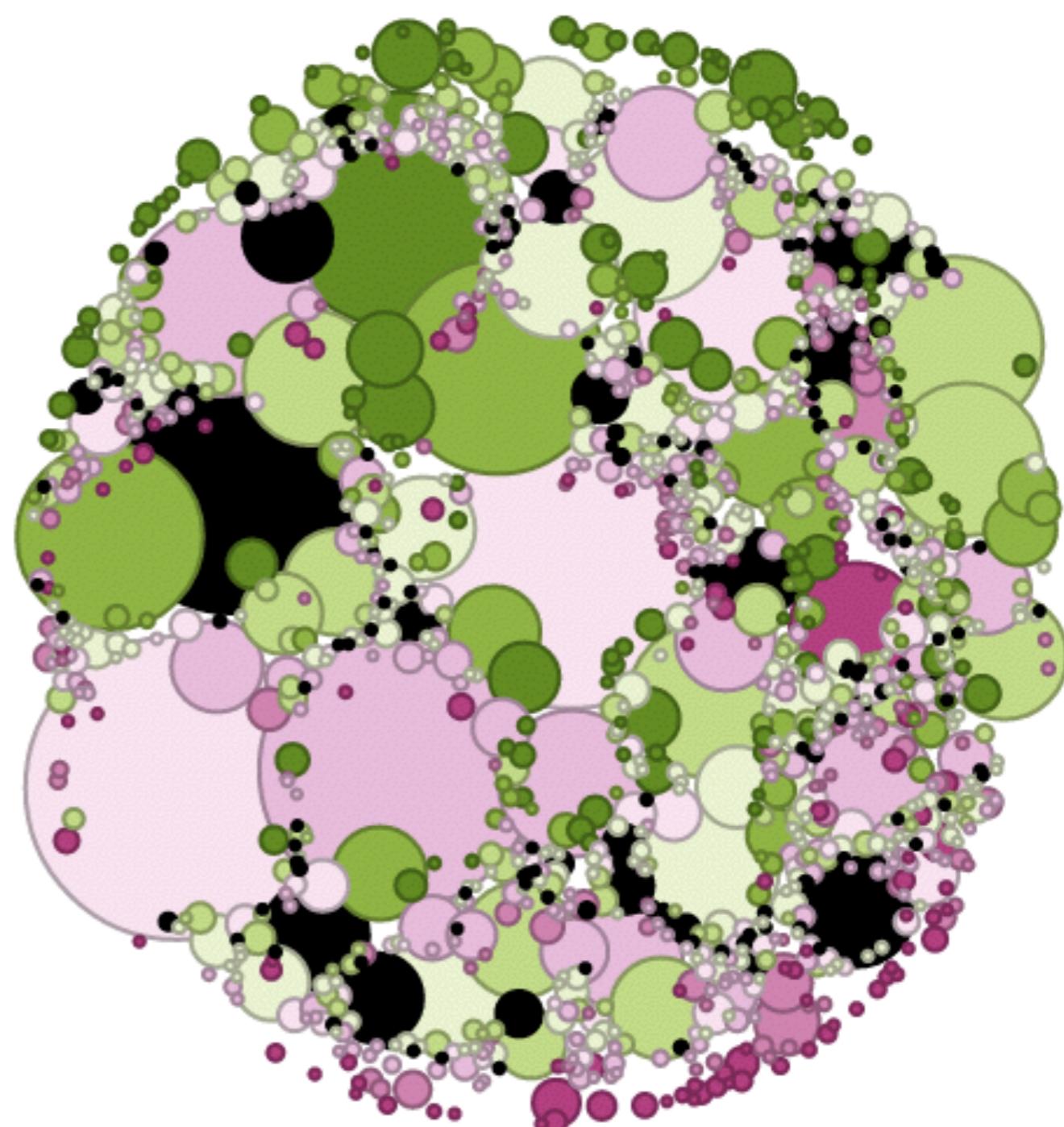


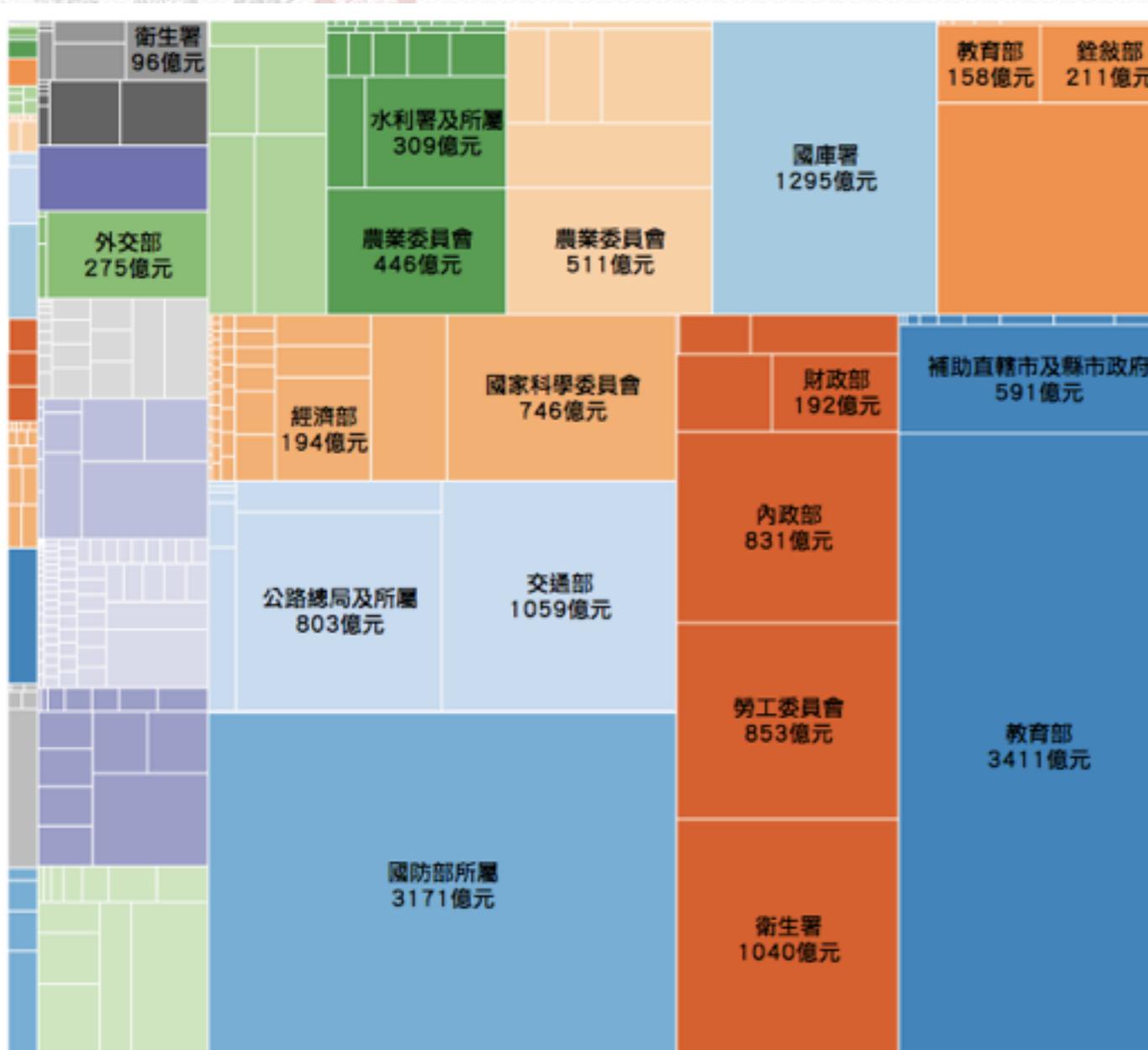
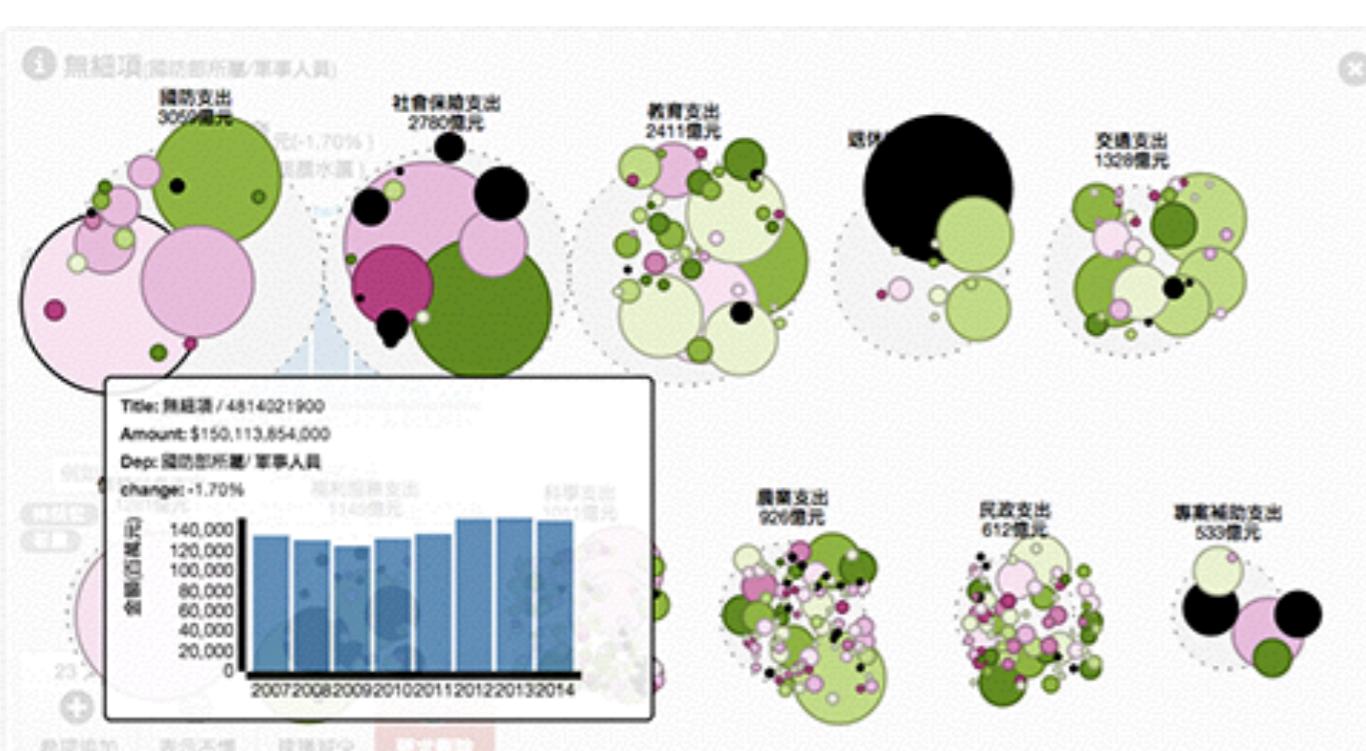
希望追加

表示不懂

建議減少

要求刪除





例如: 林益世 標記相關人士

林益世 馬英九 請先明列用途細項 紙 曹金生
老農

透過按一下表達你對於此預算的看法!

23 人 希望追加	23 人 表示不懂	151 人 建議減少	251 人 要求刪除
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5 則回應 ▾

王魚 回應 省市地方政府 2千座釣魚台 衛生福利部主管 1千座釣魚台
 同時於 Facebook 上發表 以 Kirby Wu 身分發表 (更改) [留言](#)

王歐郎 追蹤 · ★ 留言最多的人 · 潮光中一小小小小小自願打雜
王者兼特教 會增加是因為已經確定好的款項現在才進
因為有一票裝備要進來...(拿掉這些可是負成長)
回覆 · 讀 · 追蹤貼文 · 2013年12月25日 14:46

林敬倫 · Scream Lab 員工 沒有細項的支出，該砍了吧
回覆 · 讀 · 追蹤貼文 · 2013年9月17日 23:48

委員會主管 F座釣魚台 交通部主管 1千座釣魚台 還有 3 個留言 ▾
內政部主管 1千座釣魚台
經濟部主管 760.1座釣魚台

[Facebook 社群外掛元件](#)

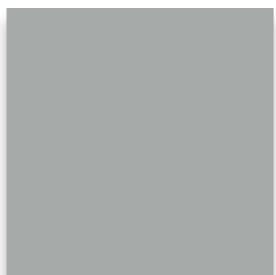
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9	6	8	6	6	8	8	2	4	3	6	9	6	5	2	2	3	5	6
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9	6	8	6	6	8	8	2	4	3	6	9	6	5	2	2	3	5	6
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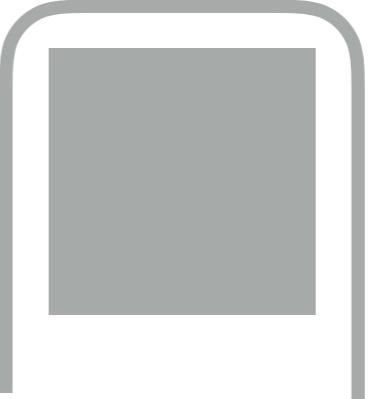
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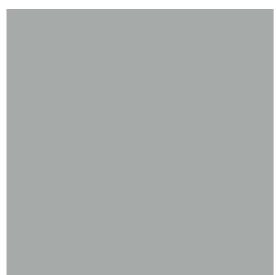
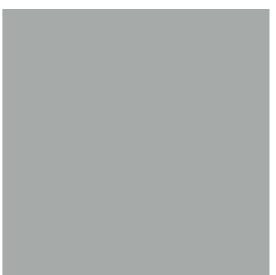
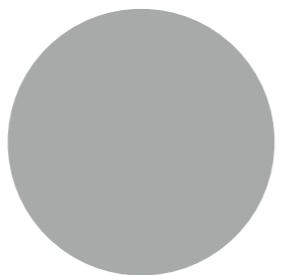
shadow



closure



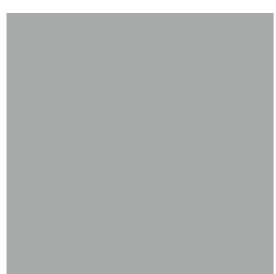
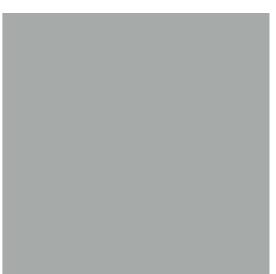
shape



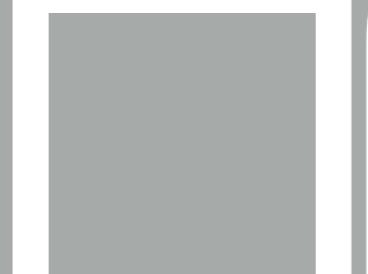
size



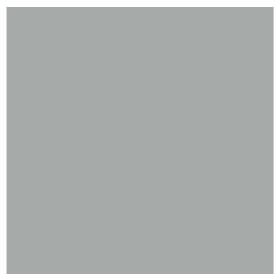
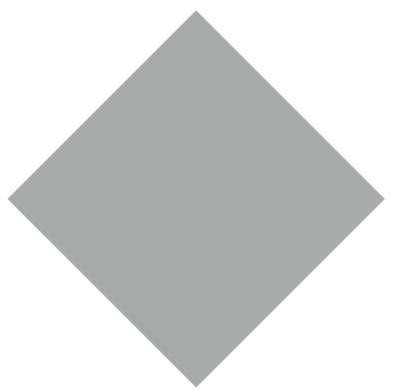
proximity



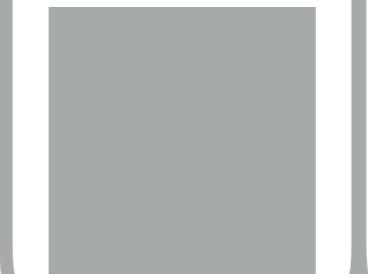
enclosure



direction



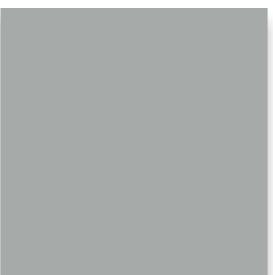
animation



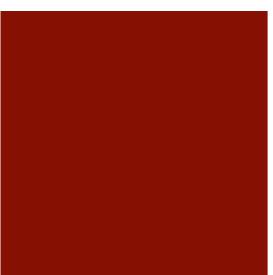
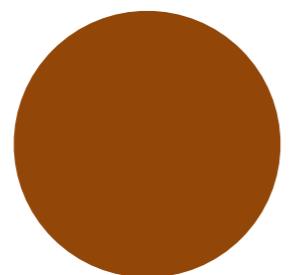
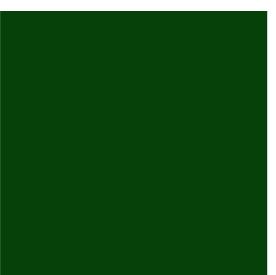
color



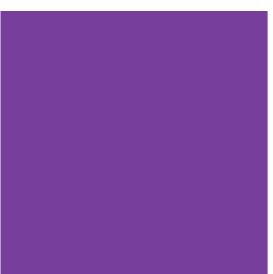
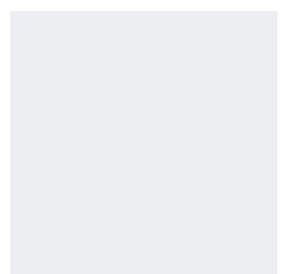
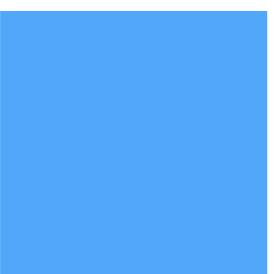
shadow



closure

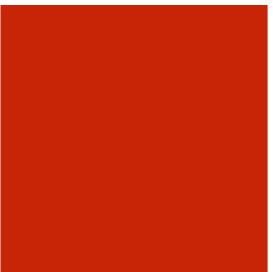
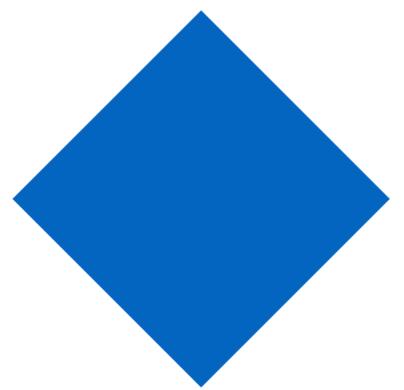


size



proximity

direction



animation

零時政府官網

22 位主要開發者



yjlou



ronnywang



floydsoft



youchenlee



lanfon72



jeffhung



jessy1092



caasi



thebrecht



darbychang



dannvix



shelling



carlcarl



yhsiang



victorhsieh



zbryikt



audreyt



pofeng



walkingice



chilijung



clkao



ipaaa

moedict

18 位主要開發者

 youchenlee

 viirya

 miau715

 yhsiang

 miaout17

 miaoski

 lwhsu

 timdream

 a-tsioh

 kcwu

 caasi

 wildjcrt

 muan

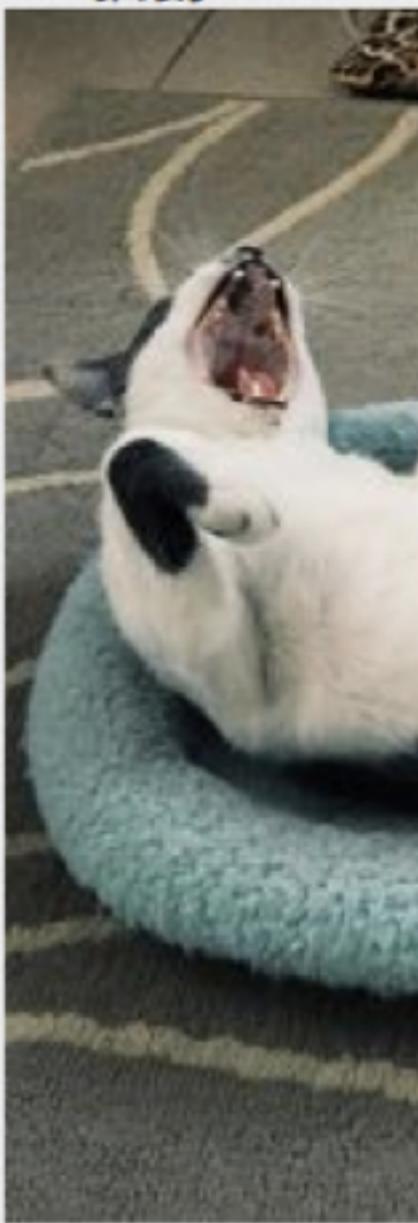
 clkao

 c9s

 hlb

 ethantw



#毛小孩
貓爵

間就出現，《蘋果》即時新聞統整這一年，不包括鄭捷案，加上今天這起，北捷驚魂事件就有以下16起：

1、北捷中山站持刀砍人 4人受傷送醫

今天台北捷運中山站4號出口附近，剛有男子持刀砍人，造成4人受傷，警消已趕赴現場，將傷者送醫，砍人男子已被捷運保全壓制落網。

2、北捷再現隨機殺人 1男學生胸口中刀

北捷台北捷運站發生隨機傷人案，1名男學生搭手扶梯下樓，突遭身旁1名男子以利器割向胸口，男學生受傷後痛苦的用雙手摀住傷口，旅客發現立即報案。

3、捷運台大醫院站 2男互毆乘客驚逃

日前捷運台大醫院站發生鬥毆案件，67歲男子與40多歲男子在捷運站口角後大打出手，一旁乘客發現嚇得趕緊逃離車站，警方趕抵將2人拉開，40多歲男子眼睛瘀青臉部撕裂傷，被緊急送往台大醫院，67歲男子則是拒送。

嗰醬：早～哈～
7小時
Crowdy 在線
展開

我在痞客

This map illustrates the locations and dates of accidents along the Taipei MRT system. The red line highlights specific incidents, while the blue line indicates a route or series of events.

Red Line Accidents:

- 2015/02/17: 紅樹林 (Red Forest) - 淡水 Line
- 2014/06/06: 復興崙 (Fuxingkun) - 忠義 Line
- 2014/06/08: 奇岩 (Qiyan) - 新北投 Line
- 2014/08/02: 石牌 (Shibai) - 明德 Line
- 2015/05/31: 圓山 (Yuanshan) - 民權西路 Line
- 2015/06/24: 雙連 (Shuanglian) - 民權西路 Line
- 2014/07/20: 中山 (Zhongshan) - 台北車站 Line
- 2014/05/22: 台北車站 (Taipei Station) - 西門 Line
- 2014/08/20: 台北車站 (Taipei Station) - 西門 Line
- 2014/07/03: 台大醫院 (National Taiwan University Hospital) - 西門 Line
- 2015/04/17: 大安森林公園 (Daan Forest Park) - 大安 Line

Blue Line:

- 2014/05/21: 丹鳳 (Dan Feng)
- 2015/01/08: 新莊 (Xinzhuang)
- 2015/04/06: 輔大 (Fu Jen University)
- 2015/06/07: 新埔 (Xinpuk) - 江子翠 (Jiangzicui) - 龍山寺 (Longshan Temple) - 西門 Line
- x4: 江子翠 (Jiangzicui) - 龍山寺 (Longshan Temple) - 西門 Line

Other Labels:

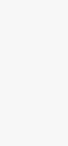
- 0521 ~ 2015/07/20
- 計 4 死 34 傷
- 新北投 (Xinbeitou)
- 忠義 (Chungyi)
- 竹圍 (Zhitui)
- 紅樹林 (Red Forest)
- 關渡 (Guandu)
- 復興崙 (Fuxingkun)
- 北投 (Beitou)
- 奇岩 (Qiyan)
- 石牌 (Shibai)
- 明德 (Mingde)
- 芝山 (Zishan)
- 士林 (Shilin)
- 劍潭 (Jiantan)
- 圓山 (Yuanshan)
- 民權西路 (Minquan West Road)
- 中山國小 (Zhongshan Primary School)
- 行天宮 (Xingtian Temple)
- 南京復興 (Nanjing復興)
- 松江南京 (Songjiang Nanjing)
- 台北車站 (Taipei Station)
- 雙連 (Shuanglian)
- 中山 (Zhongshan)
- 大橋頭 (Dabatou)
- 台北橋 (Taibridge)
- 三重 (Sanxia)
- 三和國中 (Sanhe Junior High School)
- 徐匯中學 (Xuhui Senior High School)
- 三民高中 (Simin Senior High School)
- 蘆洲 (Luzhou)
- 圓山 (Yuanshan)
- 民權西路 (Minquan West Road)
- 中山國小 (Zhongshan Primary School)
- 行天宮 (Xingtian Temple)
- 南京復興 (Nanjing復興)
- 松江南京 (Songjiang Nanjing)
- 台北小巨蛋 (Taipei Little Egg)
- 忠孝敦化 (Zhongxiao Dunhua)
- 忠孝復興 (Zhongxiao Fuxing)
- 忠孝新生 (Zhongxiao Xingsheng)
- 大安 (Daan)
- 信義 (Xinyi)
- 大直 (Dazhi)
- 劍南路 (Jian南Road)
- 西湖 (Xihu)
- 松山機場 (Songshan Airport)
- 中山國中 (Zhongshan Junior High School)
- 台北小巨蛋 (Taipei Little Egg)
- 忠孝敦化 (Zhongxiao Dunhua)
- 忠孝復興 (Zhongxiao Fuxing)
- 忠孝新生 (Zhongxiao Xingsheng)
- 大安 (Daan)
- 信義 (Xinyi)
- 古亭 (Guting)
- 中正紀念堂 (Chiang Kai-shek Memorial Hall)
- 東門 (Tongmen)
- 西門 (Ximen)
- 北門 (Beimen)
- 善導寺 (Shandao Temple)
- 忠孝新生 (Zhongxiao Xingsheng)
- 忠孝復興 (Zhongxiao Fuxing)
- 忠孝敦化 (Zhongxiao Dunhua)
- 大安 (Daan)
- 信義 (Xinyi)
- 六

 [-] NetflixIsGr8 383 指標 3小時前

Is this a joke or are the organizers of this event intentionally trying to call someone out?

[永久連結](#) [儲存](#) [檢舉](#) [贈送金幣](#) [回覆](#)



 [-] TheMexicanRobot [S] 319 指標 3小時前

I think it's a tongue in cheek kinda thing

[永久連結](#) [儲存](#) [上層留言](#) [檢舉](#) [贈送金幣](#) [回覆](#)



 [-] cake4chu 87 指標 2小時前

Major Nelson is going to hunt your friend down.

[永久連結](#) [儲存](#) [上層留言](#) [檢舉](#) [贈送金幣](#) [回覆](#)



 [-] persona_dos 28 指標 49 minutes ago

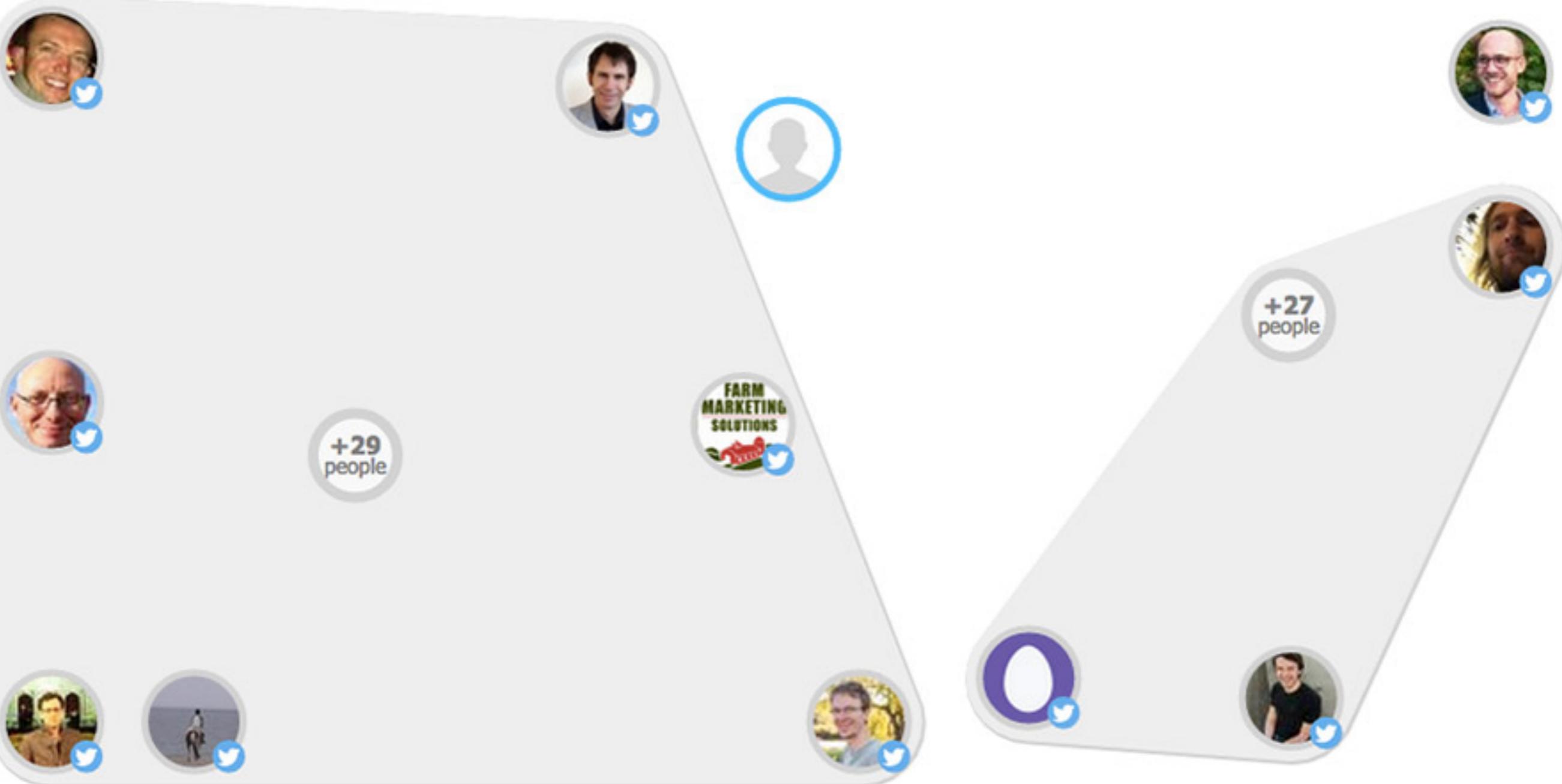
Let's summon him. [u/majornelson](#)

[永久連結](#) [儲存](#) [上層留言](#) [檢舉](#) [贈送金幣](#) [回覆](#)

... 212 more



 [-] Lark_vi_Britannia 18 指標 42 minutes ago



React Write Majority

GROUP SUMMARY

39 people



▲ 86% AGREED

37 in the selected group saw this comment.
32 of those participants agreed.

Football is 'too big to fail'

Comment submitted Sun Jan 11 2015

▲ 9

12 in 6
11 of 6

As le
game
path
appr
then
best.

Comm



Sol Villarreal •



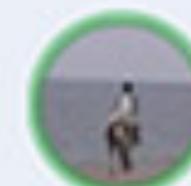
Christopher Small •



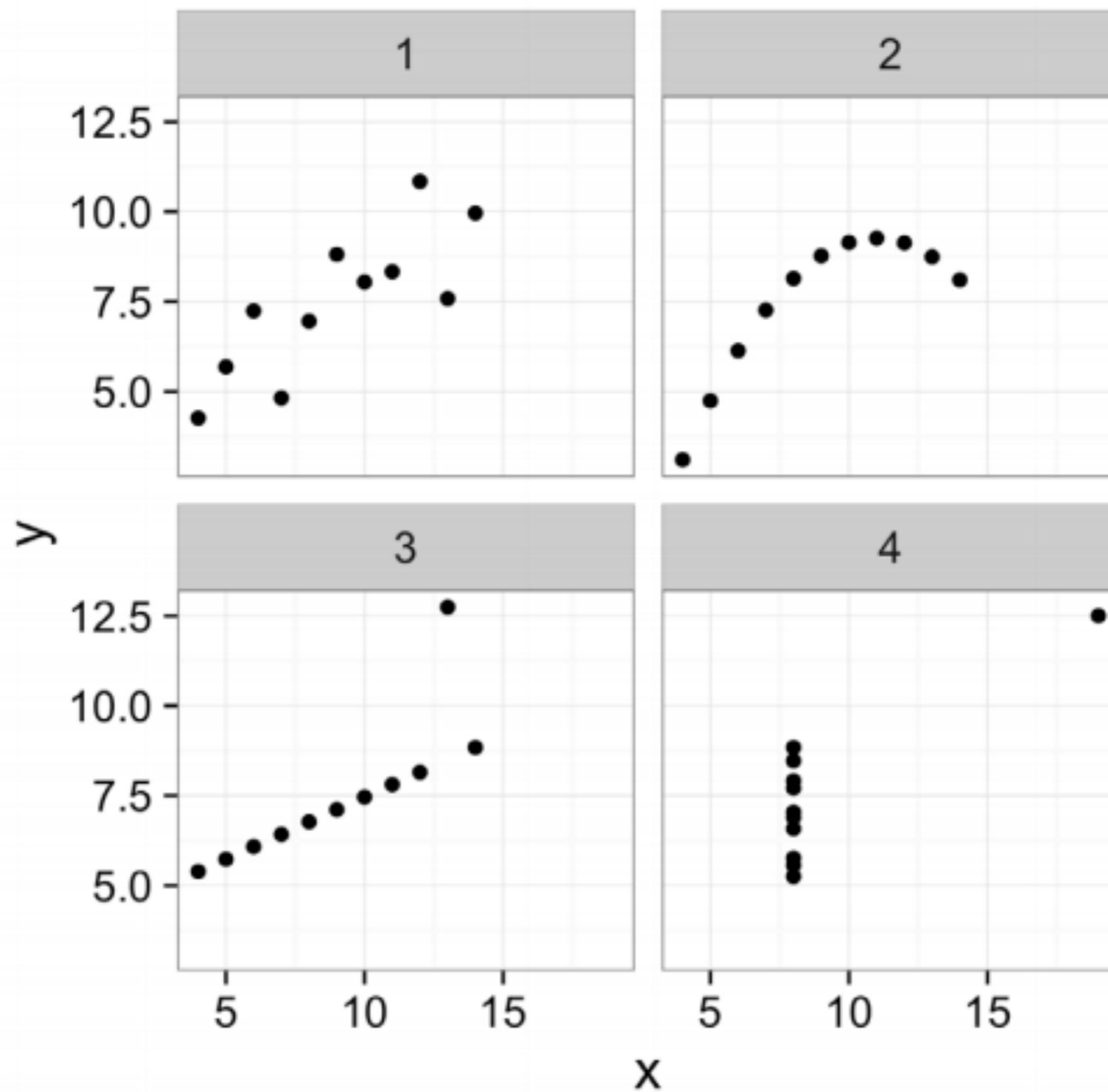
John Suscovich •

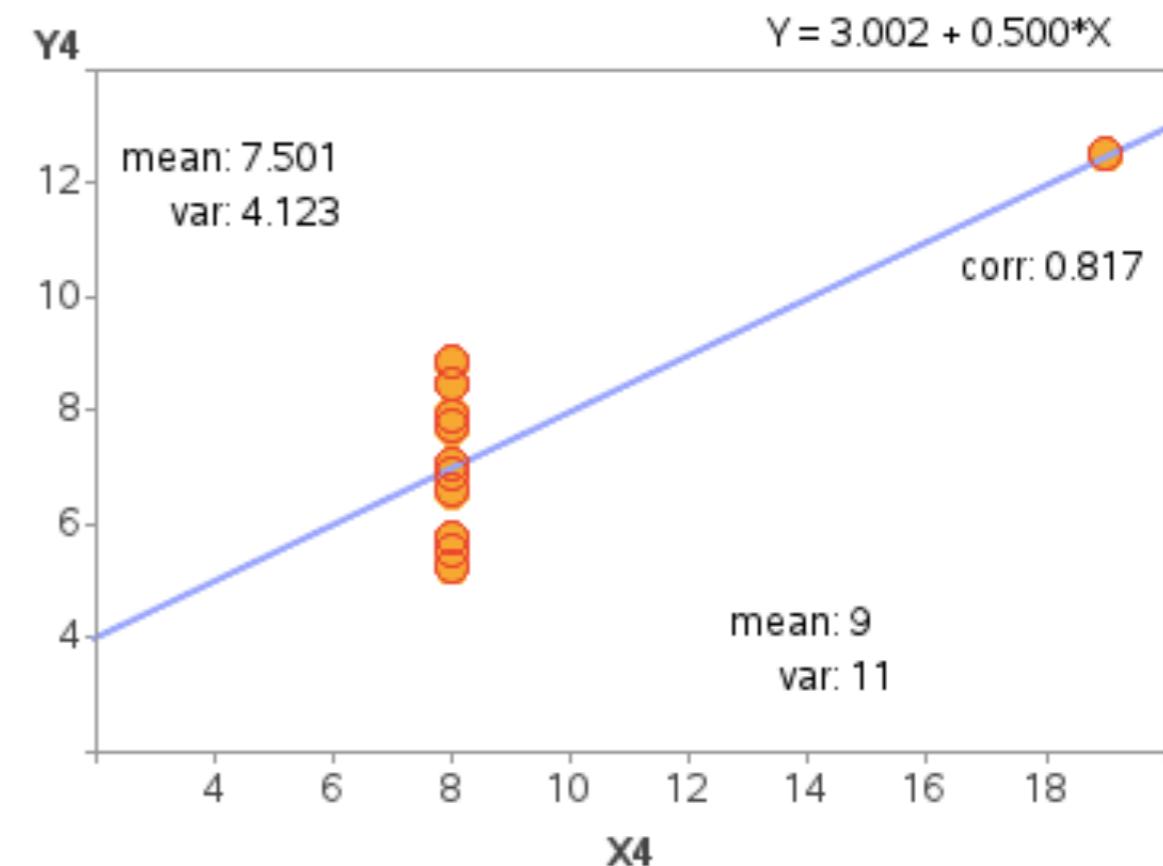
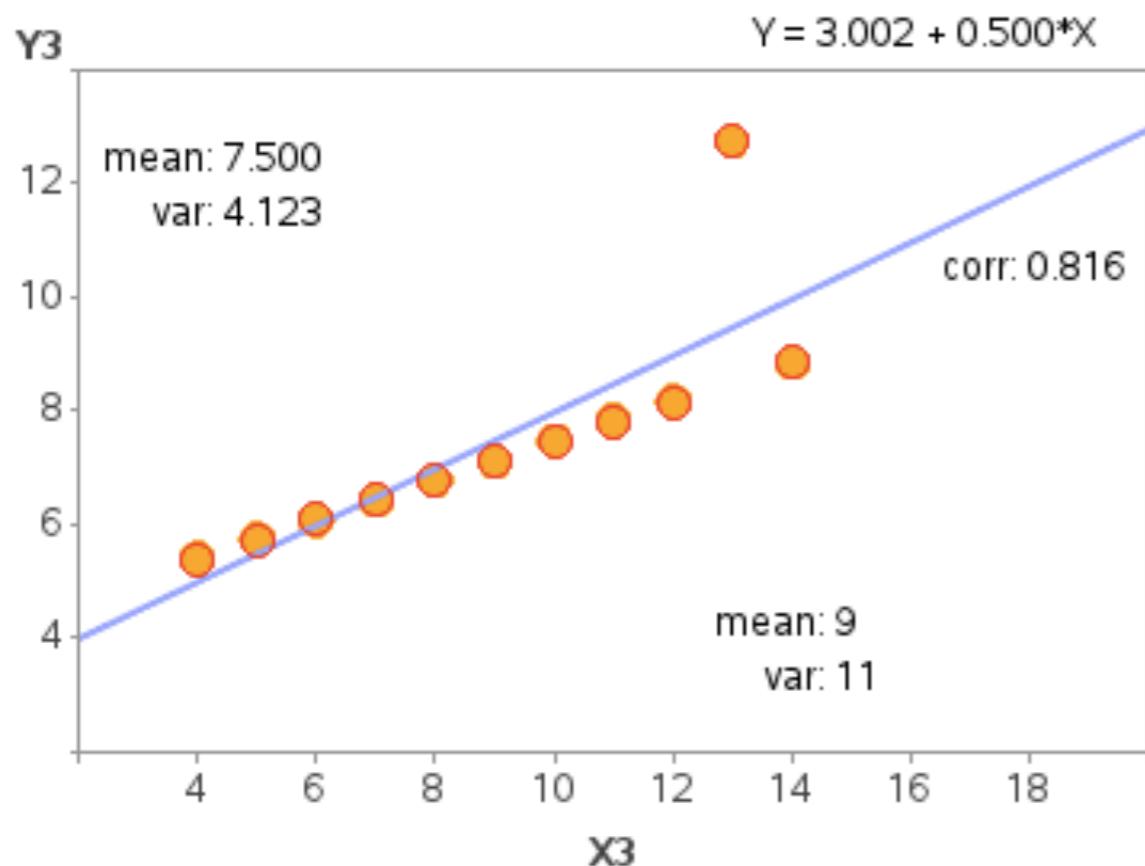
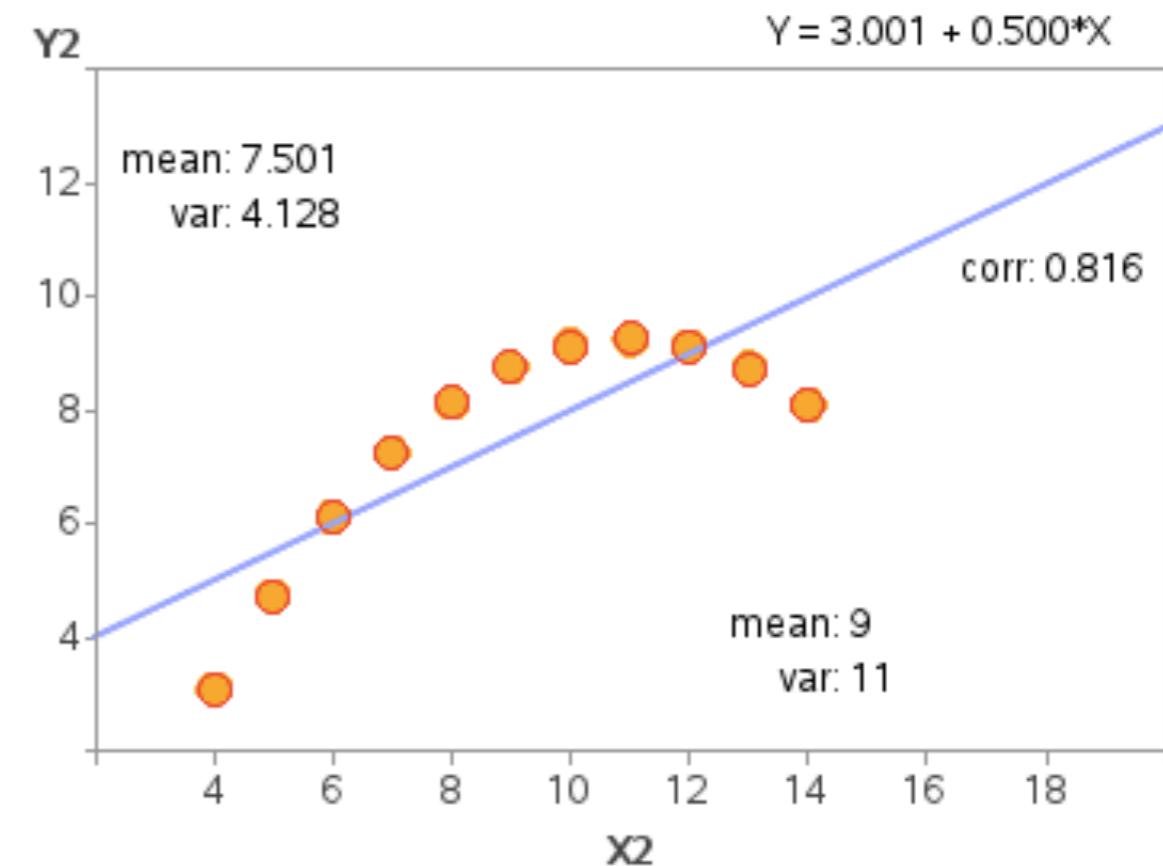
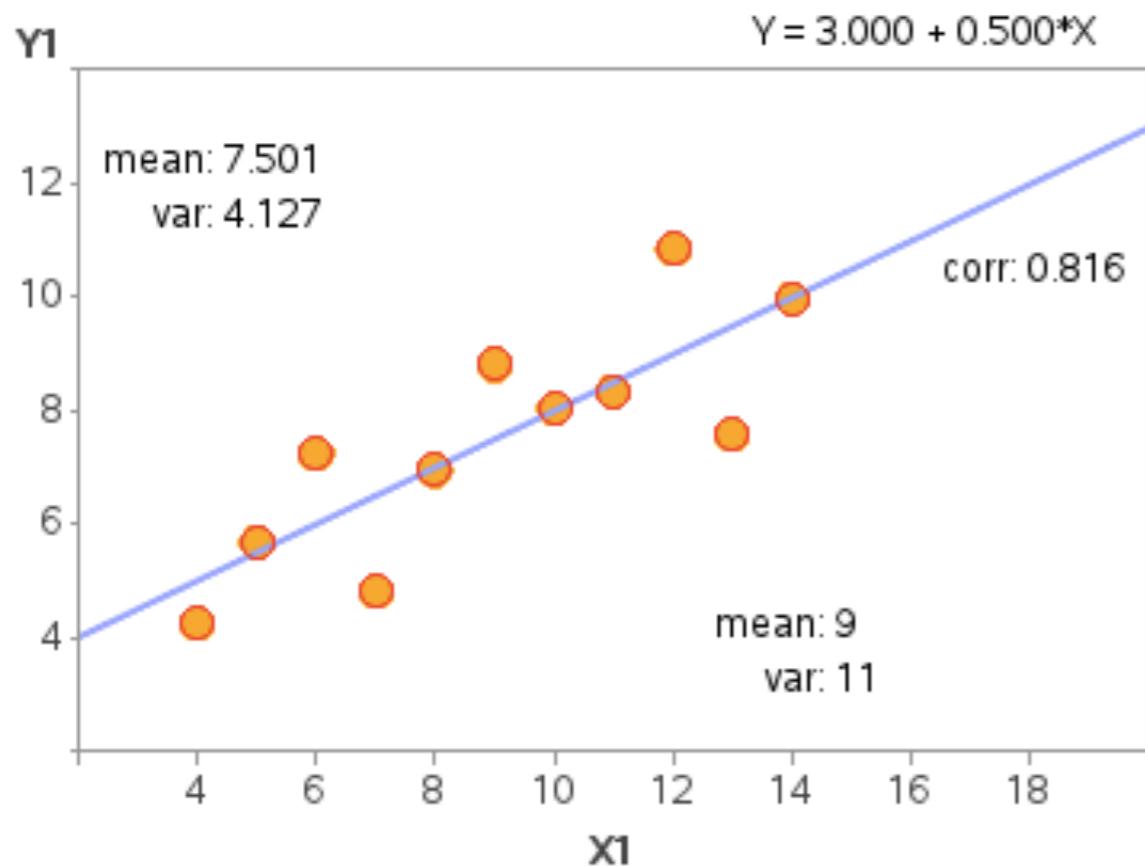


86%



Anscombe's Quartet





你家漲了嗎？2014年版各鄉鎮住宅型不動產價格統計。（統計至11月，數據為二樓以上中位數，成交量低的區域無繪出）

資料來源為內政部實價登錄資料

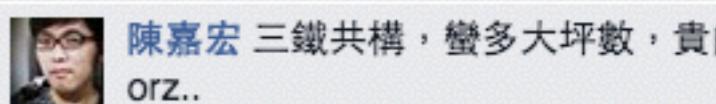
房價有疑問？選區有困難？不妨到房地問問看：<http://www.foundi.info/qa>



收回讚 · 留言 · 分享

Foundi 房地資訊站、蕭全亨、Jane Li 、Archer Lin 以及其他 520 人都說讚！

386個分享

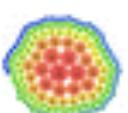
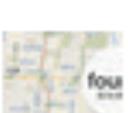
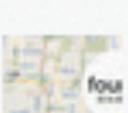
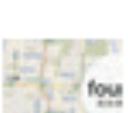


讚 · 回覆 · 2月13日 22:45



2014 年各鄉鎮房屋平均單價排名（統計至11月）

資料來源：內政部不動產交易實價查詢服務網

	[我的收入適合買房嗎？] 房價大漲、薪水卻沒有跟著漲？到底存了多少錢、年薪多少才適合買房			530	11 7
	你對房地產了解有多少呢？碰到糾紛有沒有辦法處理？做個測驗來了解一下你的程度吧！			2.2K	71 43
	[眾裡尋他千百回，驀然回首，那房子卻在電線桿不遠處？] 大家覺得電線桿在家裡旁邊有關係嗎？			474	4 11
	你家漲了嗎？2014年版各鄉鎮住宅型不動產成交單價統計。（統計至 11 月，數據為二樓以上買賣			103.7K	24.1K 2.4K
	[工業用地住宅可以買嗎？] 隔壁區新推出的建案價格看起來很漂亮？聽說是因為工業用地住宅的			470	35 9
	[偷偷被加入的空間？] 你知道大樓建案陽台外面那塊小空間是什麼嗎？不能走過去也不能利用～			320	3 6
	房仲亂貼廣告將開罰六萬以上！？不知道大家是否也和小編一樣常在路上看到小型房地產廣告張			389	5 15
	[便宜海砂屋？價格王道便宜就好？] 手頭真的比較緊，海砂屋可以入手嗎？海砂屋售價要打幾折			269	4 6
	房地趨勢各項議題熱烈討論中： http://qoo.gl/uiv3Le 有房仲業者認為：今年房地			275	3 8
	[港都山城，基隆買房適合嗎？] 看到台北房價越標越高下不了手嗎？想找稍微遠一點的區域嗎？			257	13 7

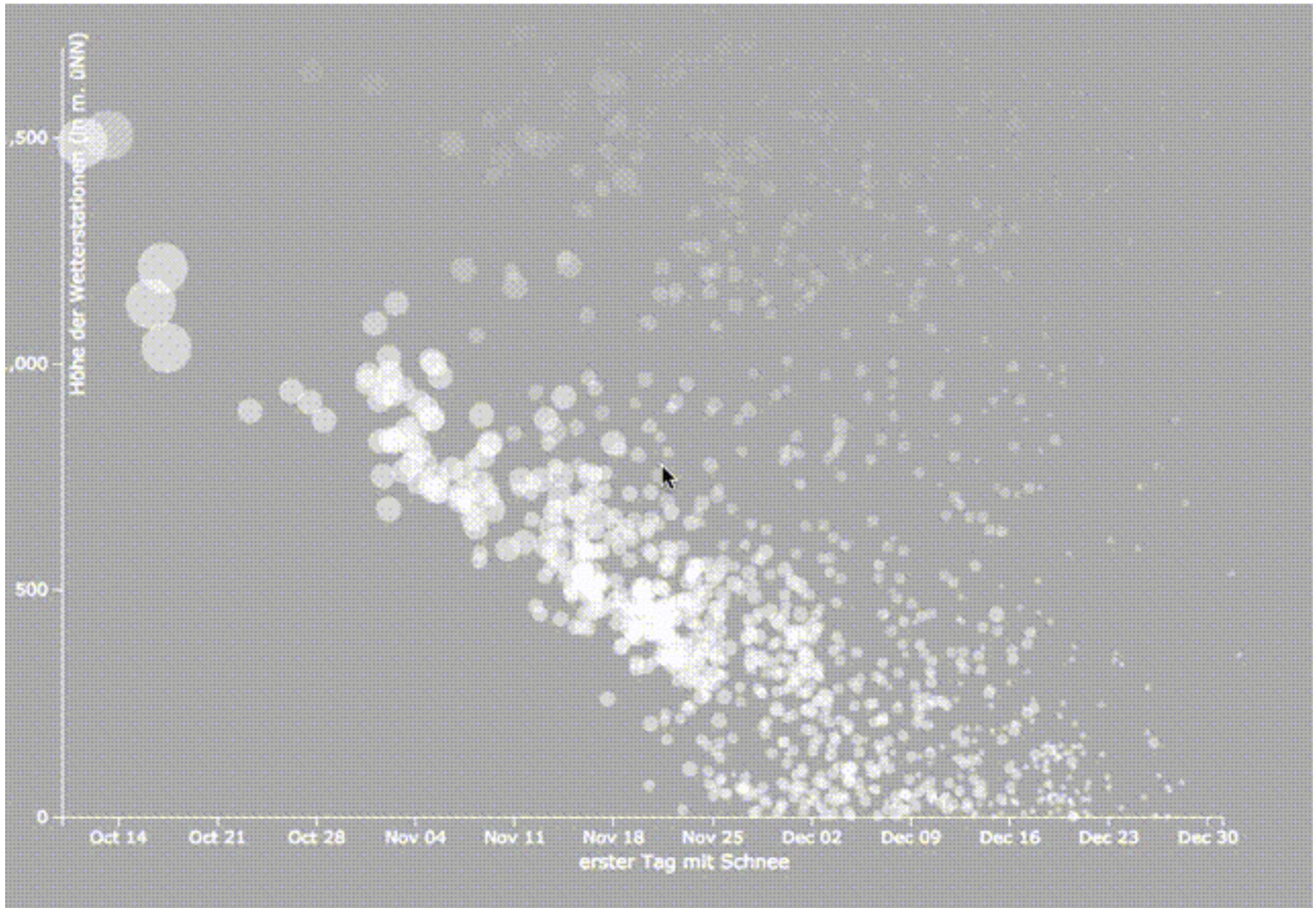




balance and symmetry

Seoul Metro Map, Visual Design Explorations (2015 revisited), Sung Hyun Cho
<http://www.sunghcho.com/seoul-metro/>





初雪時間、海拔與積雪深度

Spiegel Online, 2015 <http://www.spiegel.de/panorama/wetter-wann-faellt-in-deutschland-der-erste-schnee-a-1064475.html>

痛斥槍械零管制

20分鐘



就有1名美國人死於槍下

但美國議會偏偏不敢跟國家步槍協會
「打對台」提出嚴格規管槍械

涉及槍械的自殺及謀殺案的死亡人數

過去 25 年

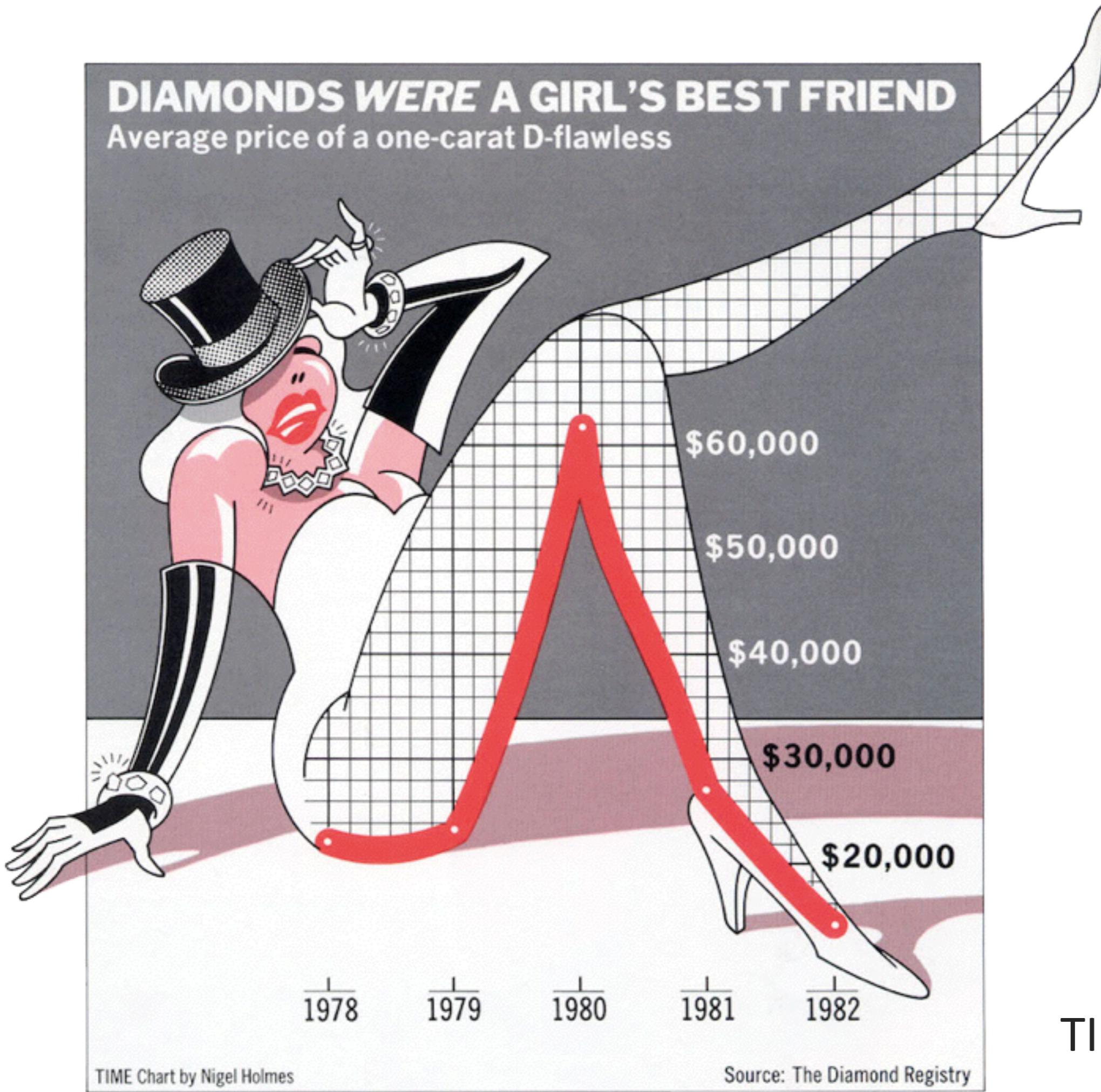
美軍在阿富汗和伊拉克陣亡
加埋恐襲美國中死亡的人數

過去 6 個月

美國在半年內發生 涉及槍械的
自殺及謀殺案的死亡人數

DIAMONDS WERE A GIRL'S BEST FRIEND

Average price of a one-carat D-flawless



Nigel Holmes
TIME Magazine

Chart Junk Debate

「凡對讀者的智力抱著懷疑態度來對待的人，
也無法寫出像樣的作品。」

- E.B. White

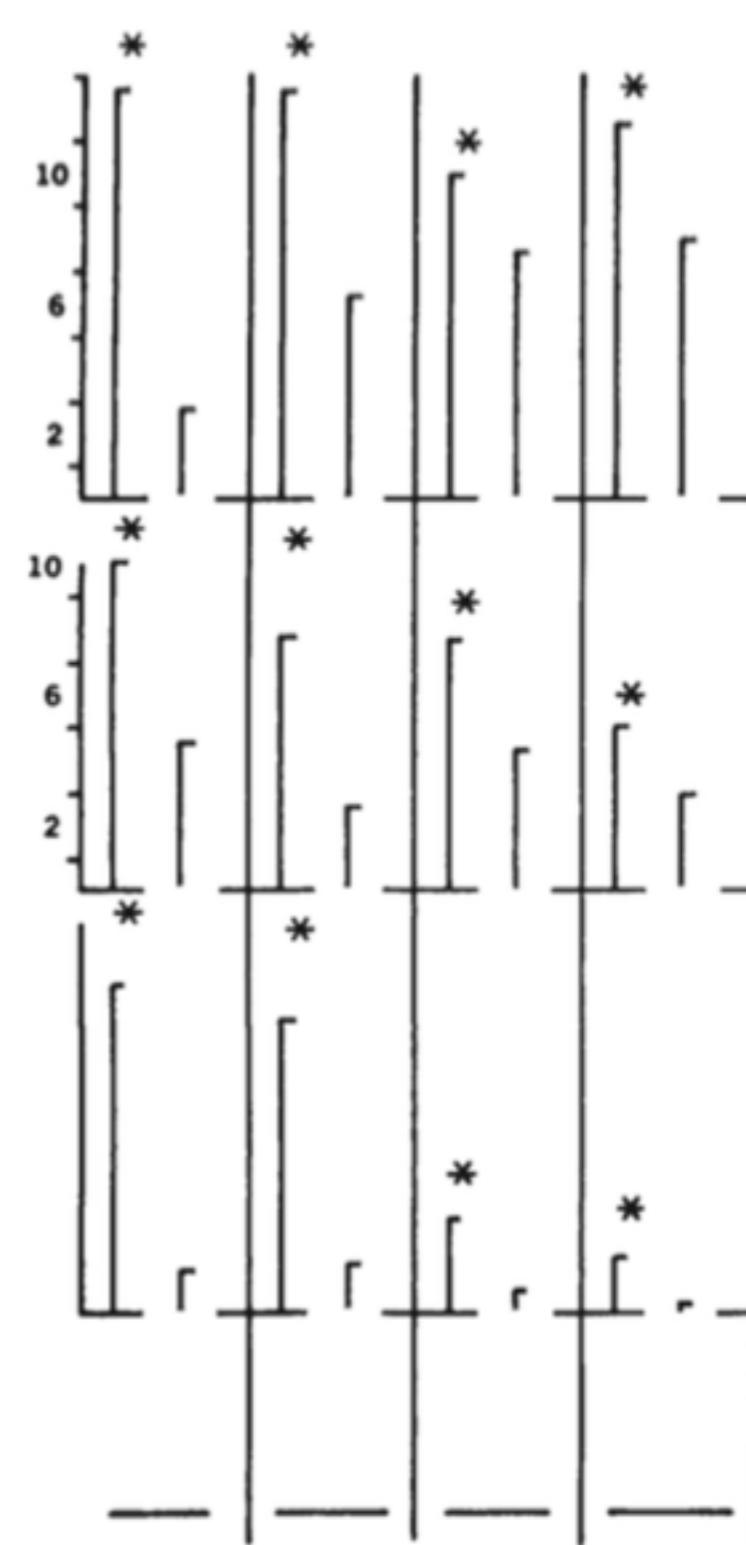
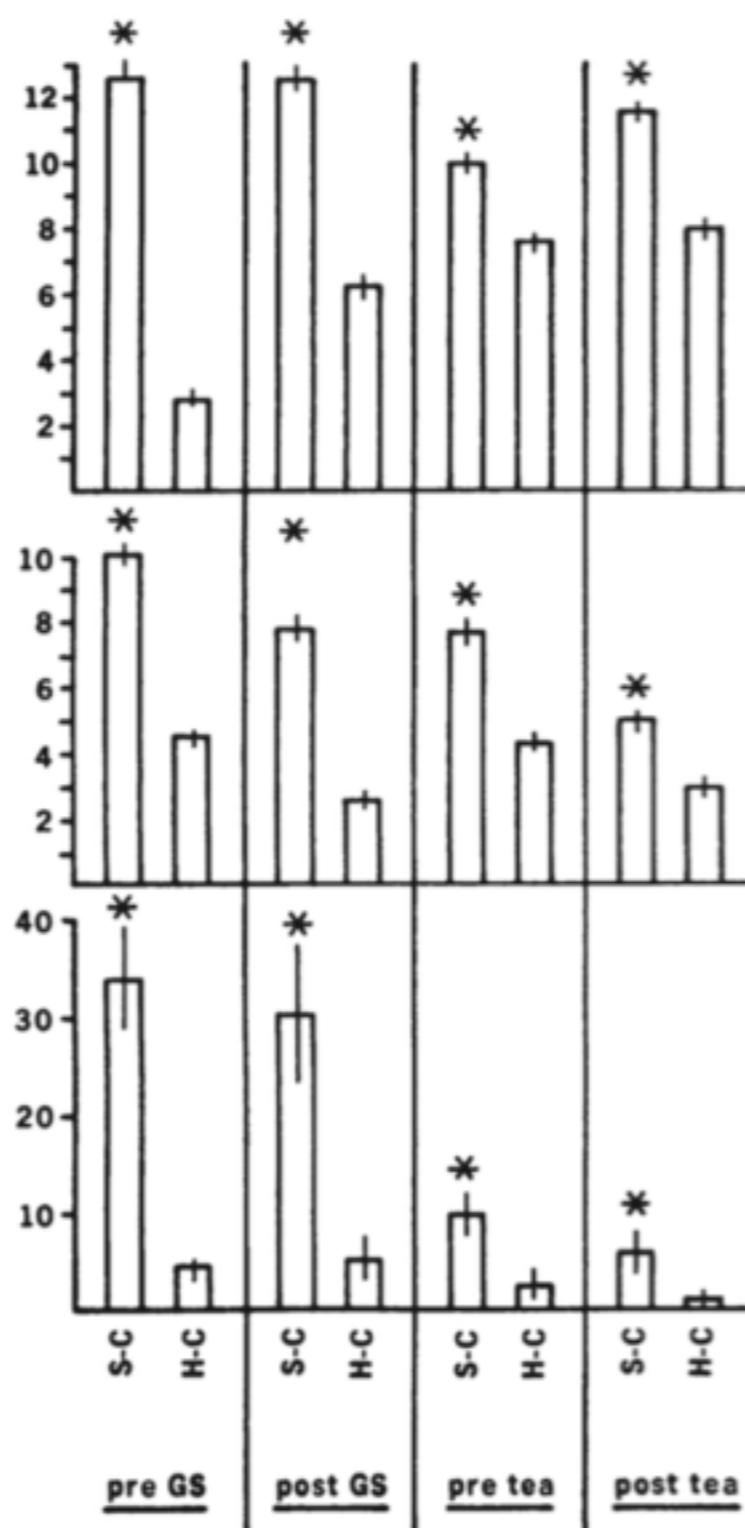
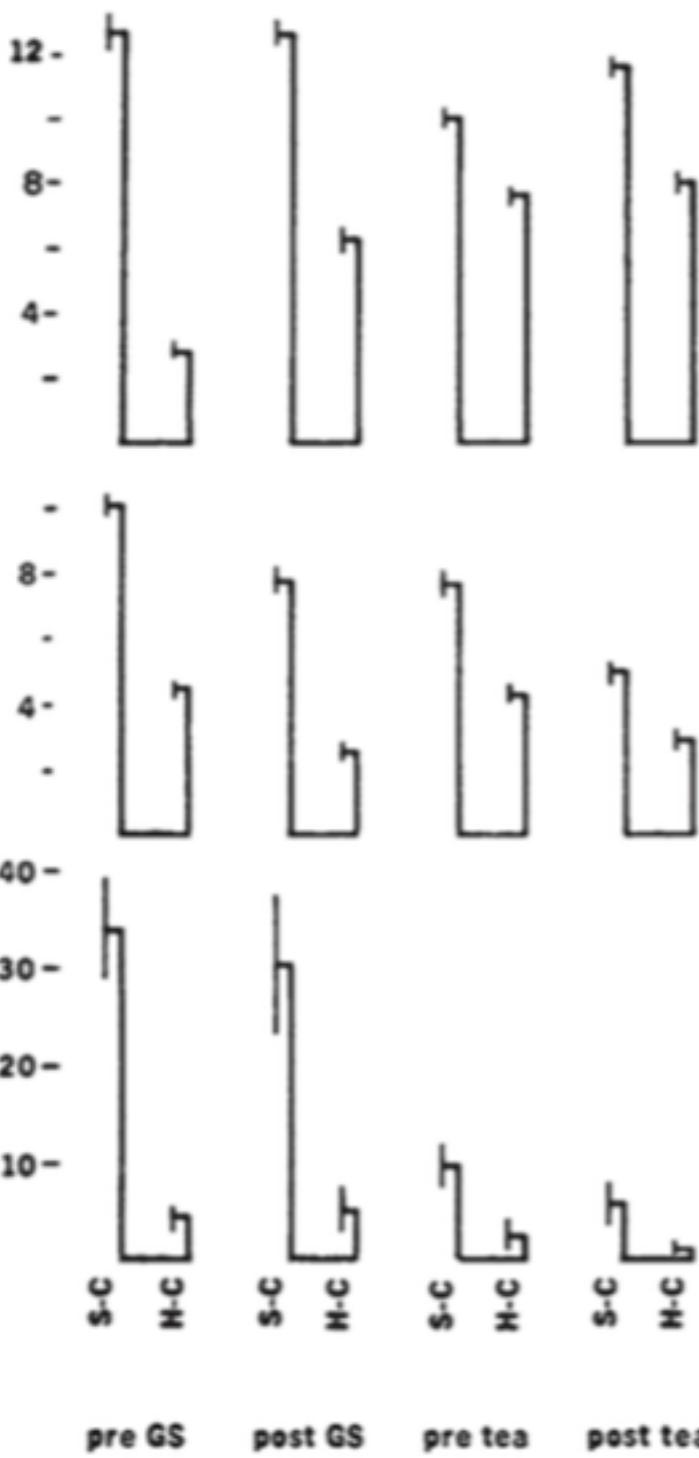
「如果統計數字枯燥乏味的話，
那你肯定弄錯了數字」

- Edward Tufte, in VDQI

Chart Junk Debate

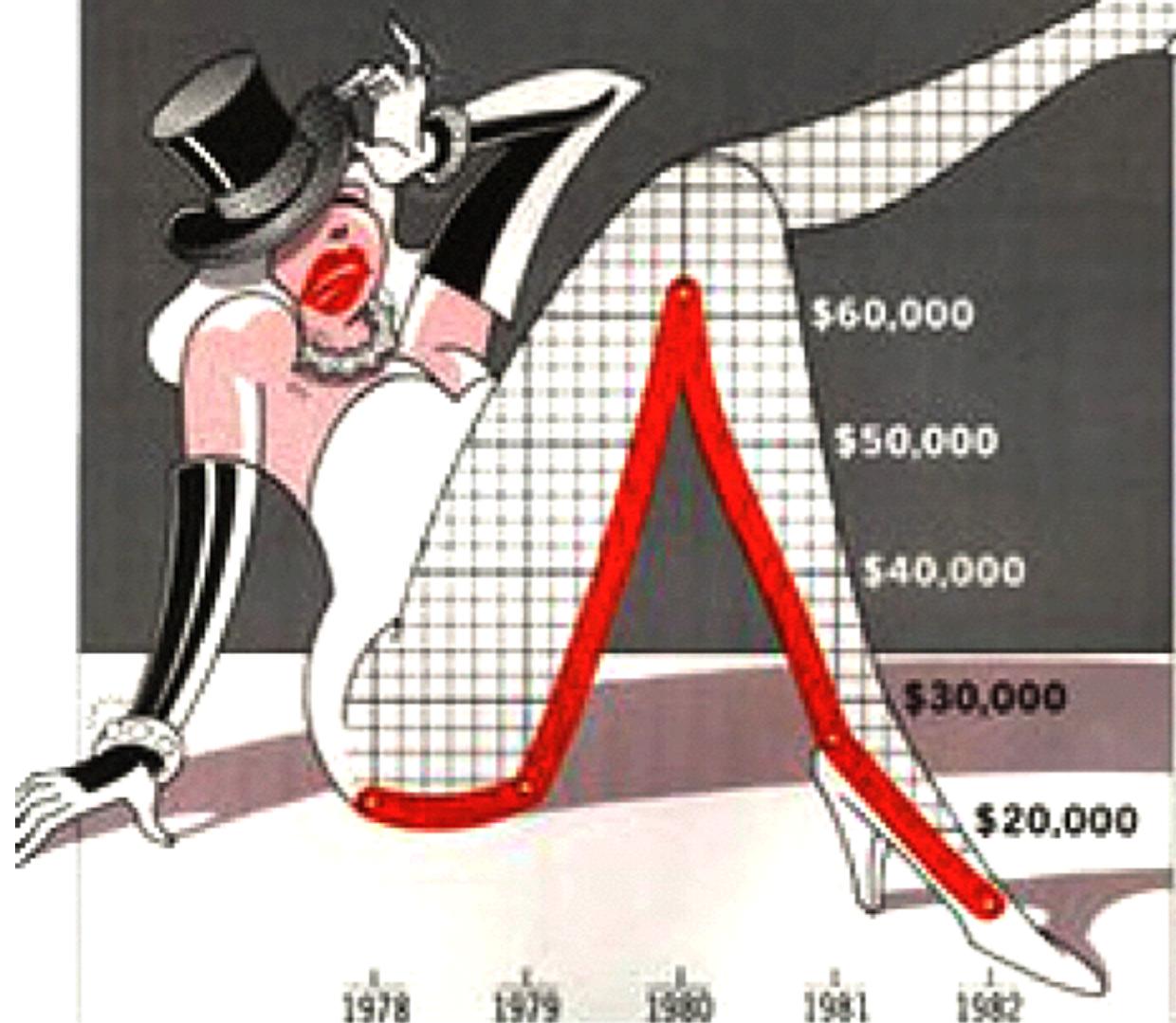
$$\text{Data-Ink-Ratio} = \frac{\text{Ink-of-Data}}{\text{Total-Ink-Used}}$$

- Edward Tufte, in VDQI



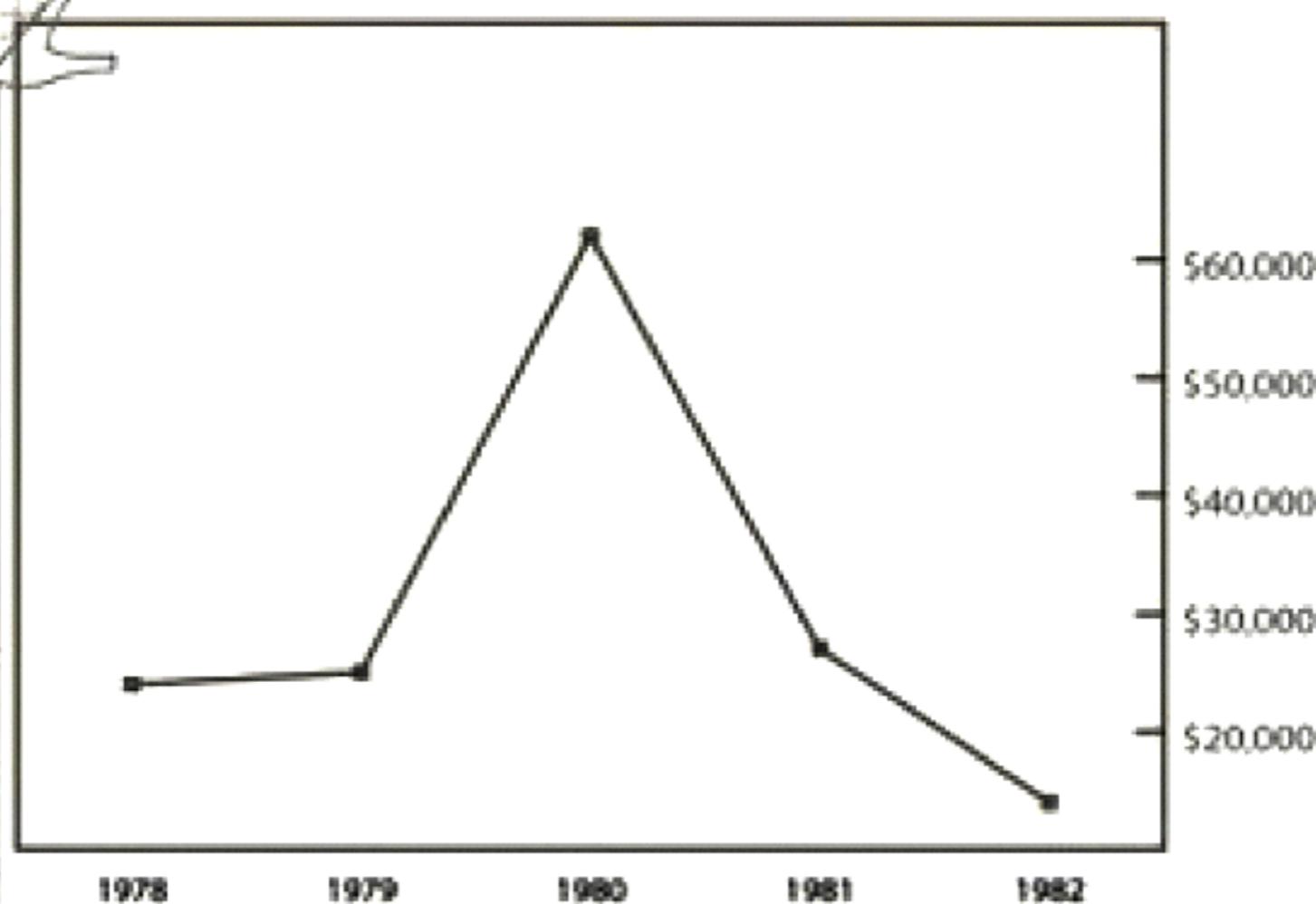
DIAMONDS WERE A GIRL'S BEST FRIEND

Average price of a one-carat D-flawless

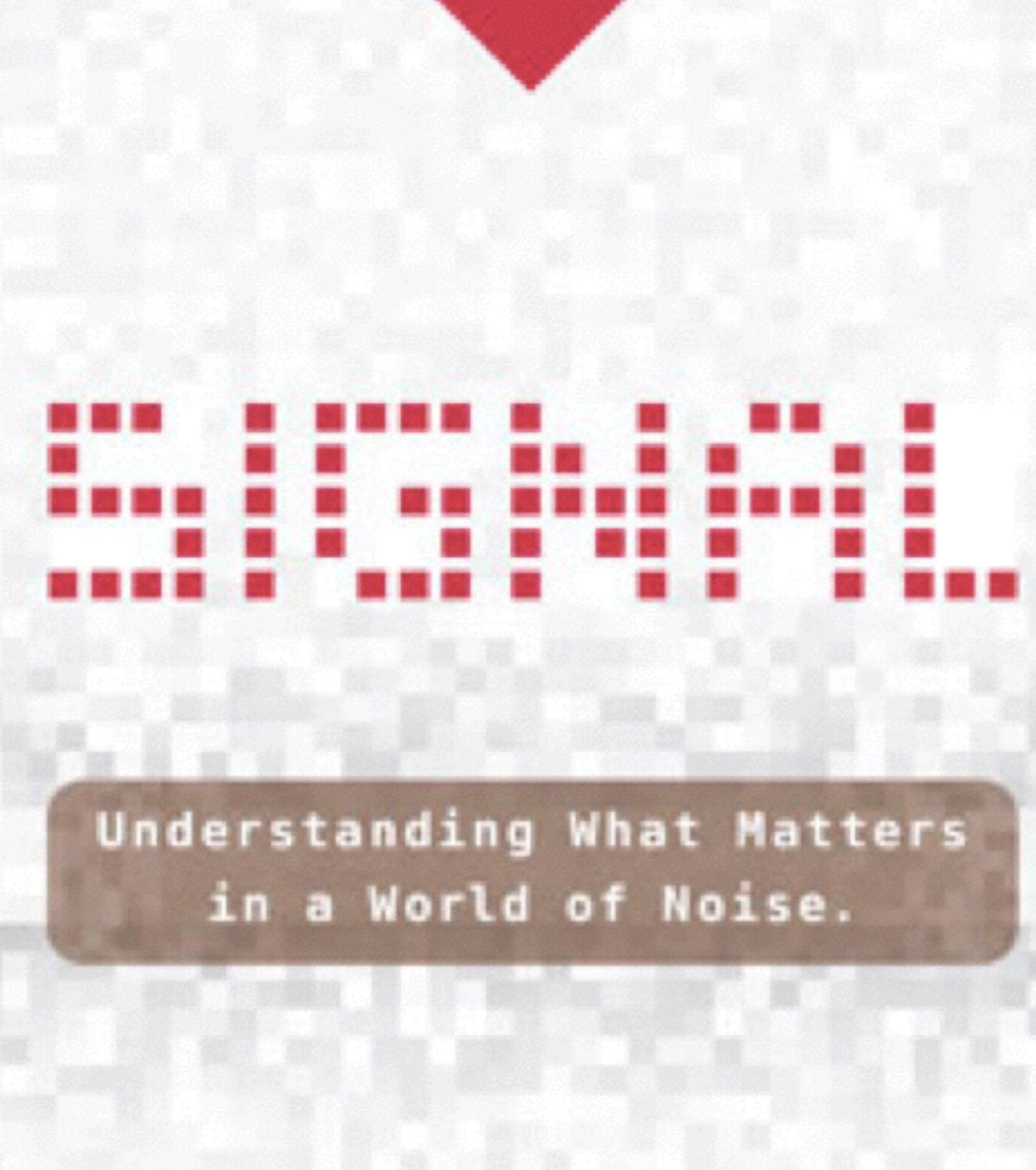


DIAMONDS WERE A GIRL'S BEST FRIEND

Average price of a one-carat D-flawless

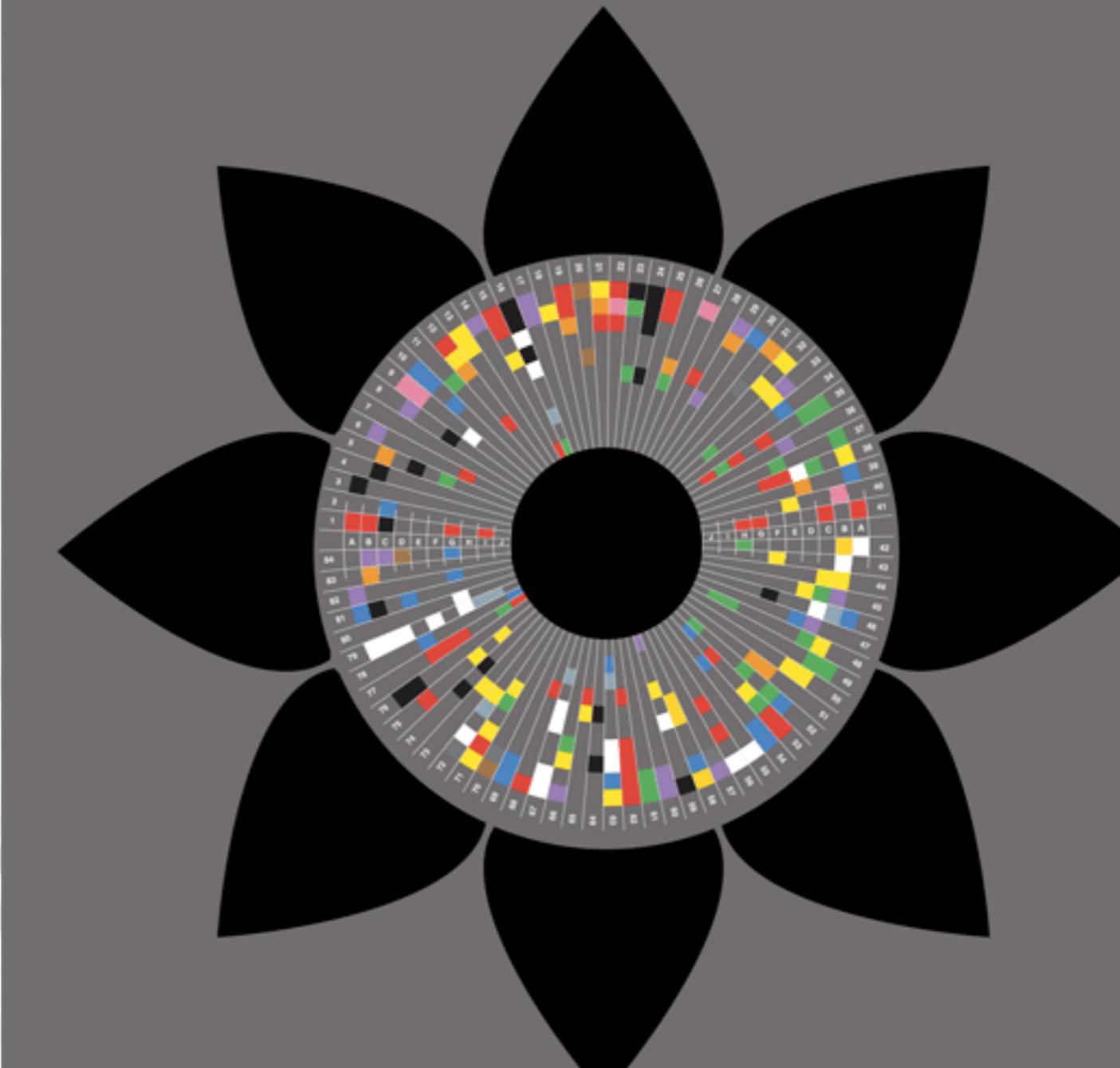


Information is Beautiful



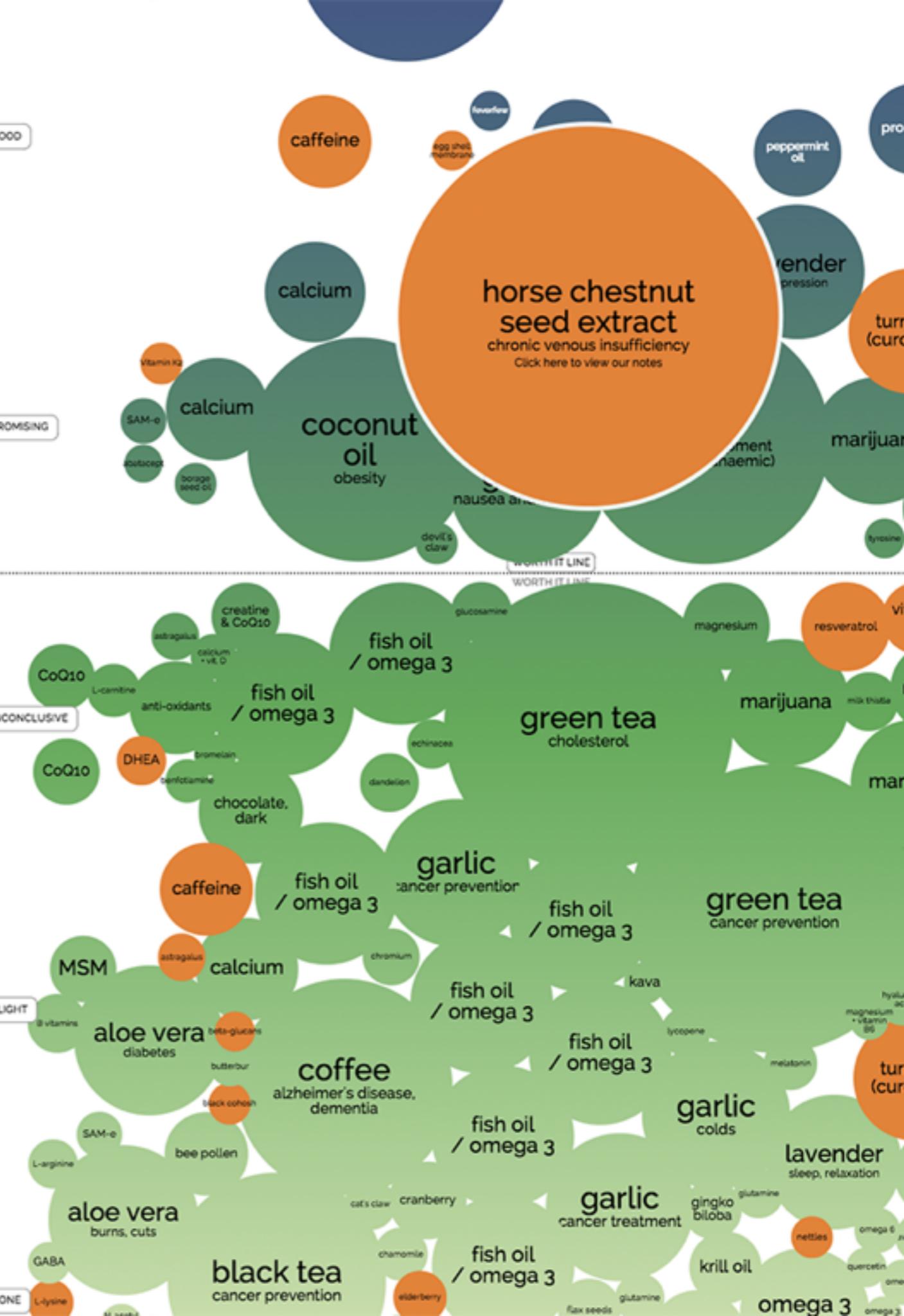
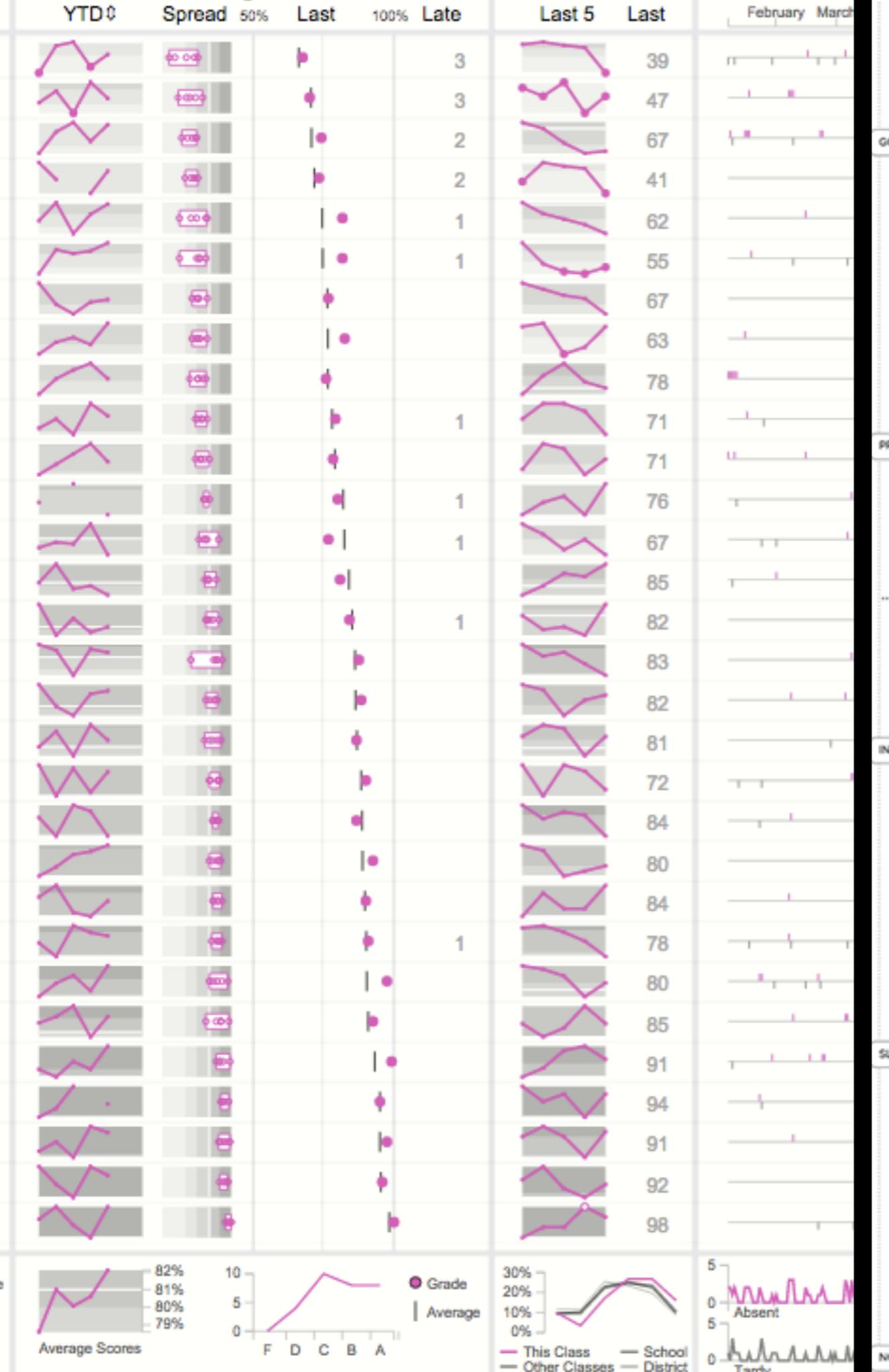
Stephen Few

Founder of PercentualEdge. Invent bullet graph



David McCandless

Author of Information is Beautiful



Useful Junk?

The Effects of Visual Embellishment on Comprehension and Memorability of Charts

Scott Bateman

Regan L. Mandryk, Carl Gutwin,
Aaron Genest, David McDine, Christopher Brooks

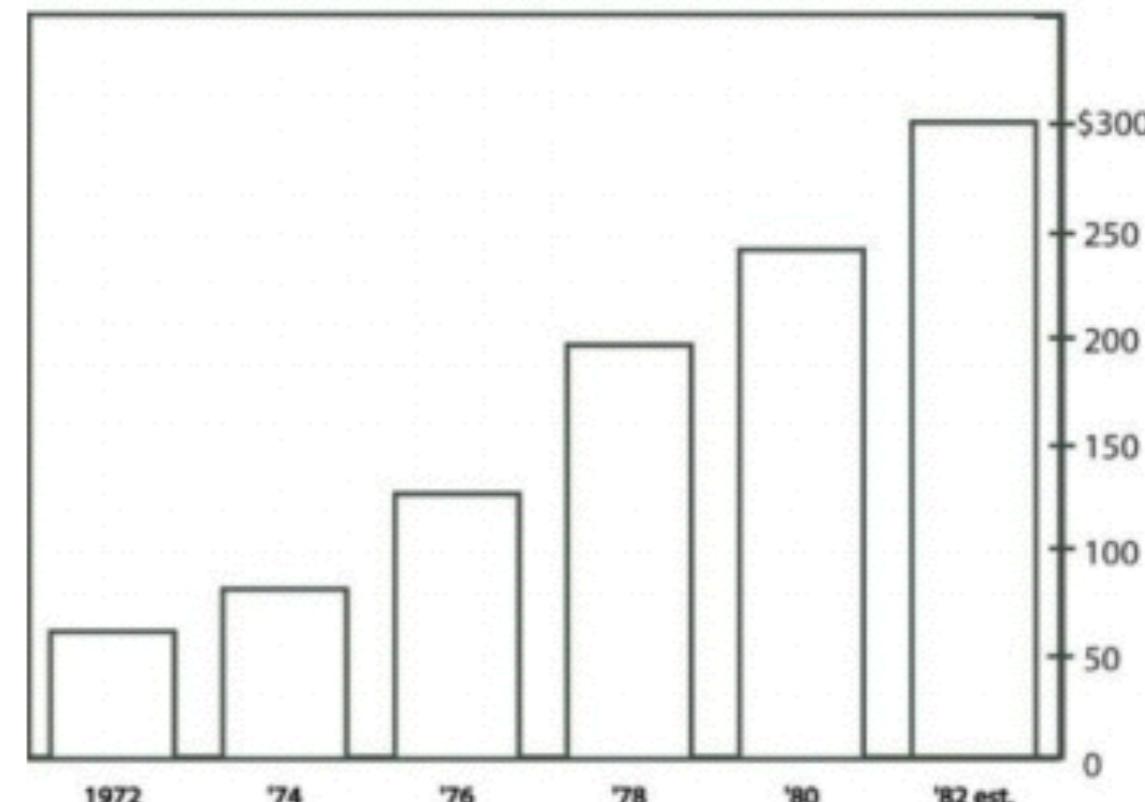
MONSTROUS COSTS

Total House and Senate campaign expenditures, in millions



MONSTROUS COSTS

Total House and Senate campaign expenditures, in millions



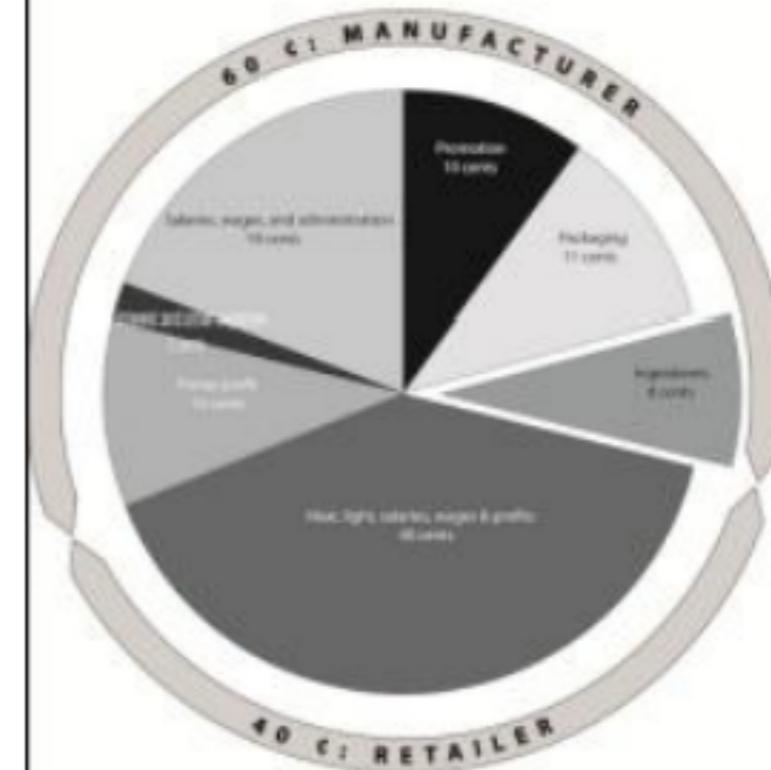
THE COSMETICS DOLLAR

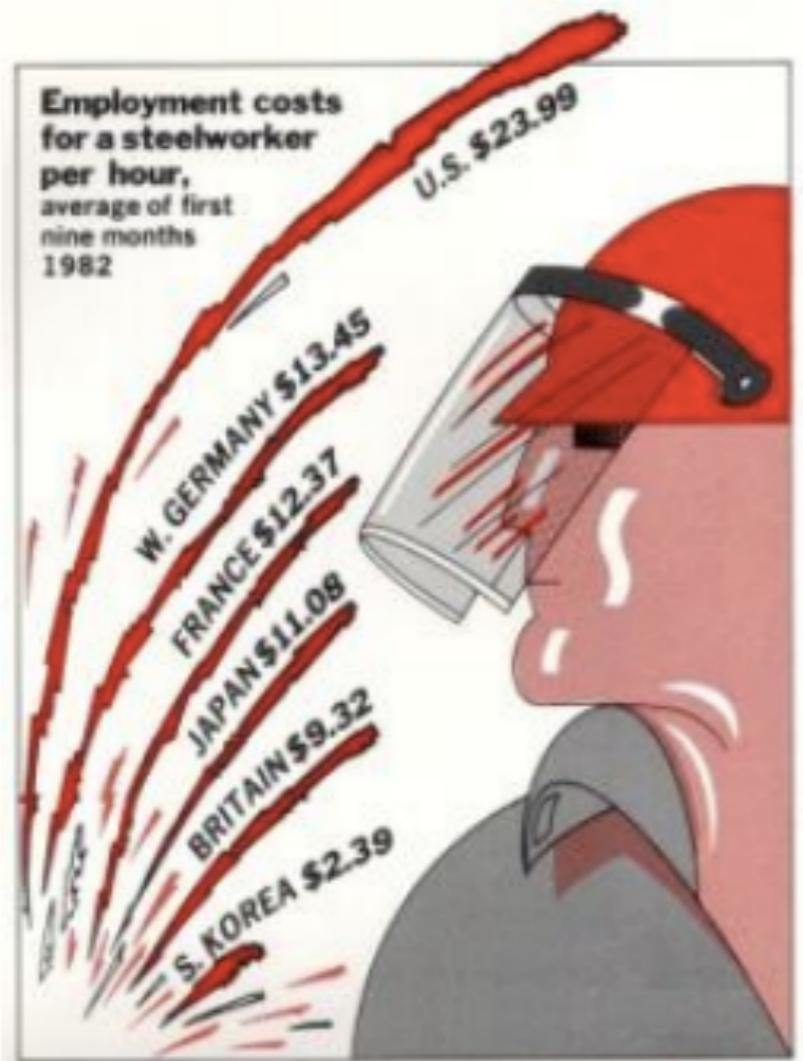
Where it goes



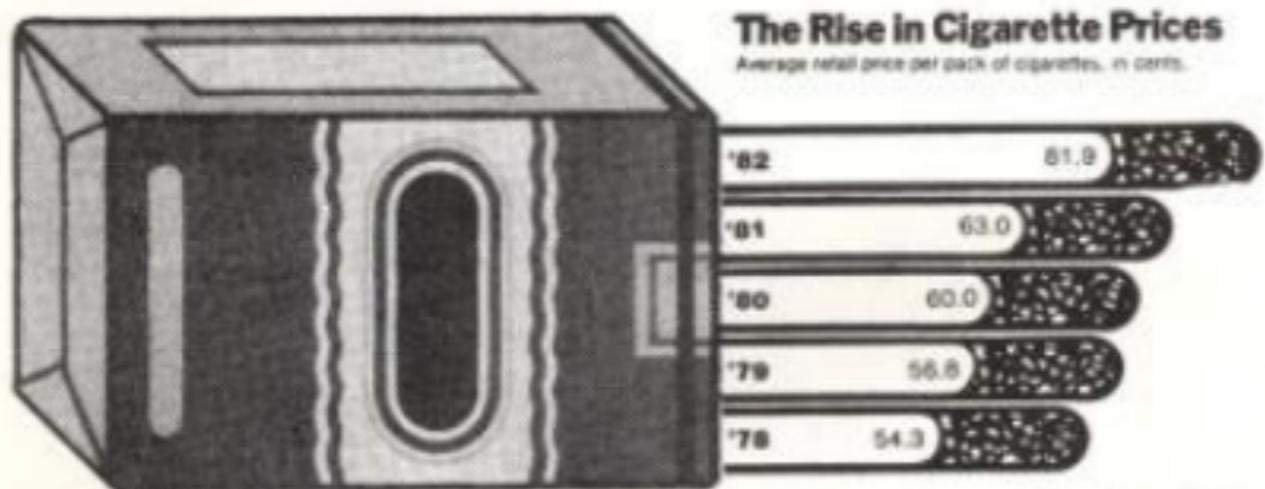
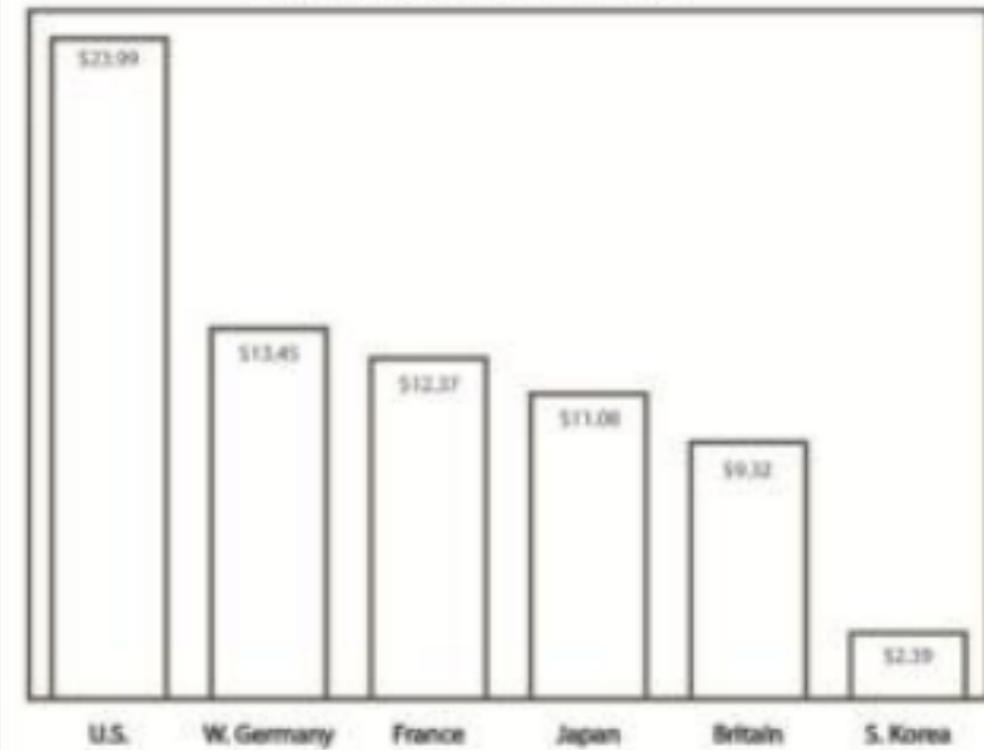
THE COSMETICS DOLLAR

Where it goes





EMPLOYMENT COSTS FOR A STEELWORKER PER HOUR
Average of first nine months, 1982



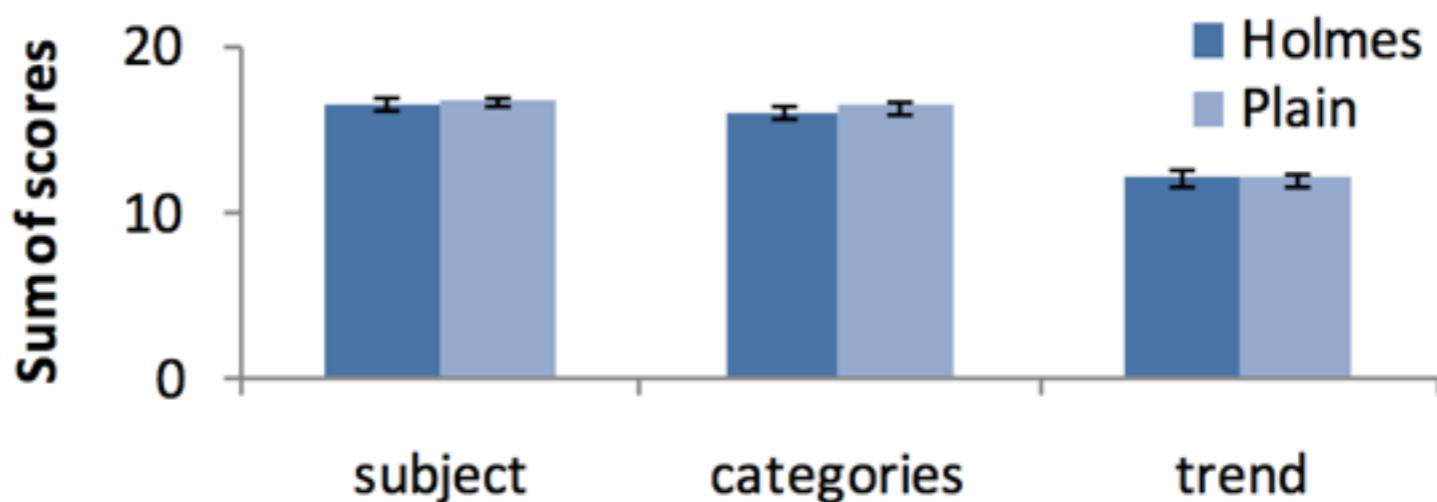
THE RISE IN CIGARETTE PRICES
Average retail price per pack of cigarettes, in cents



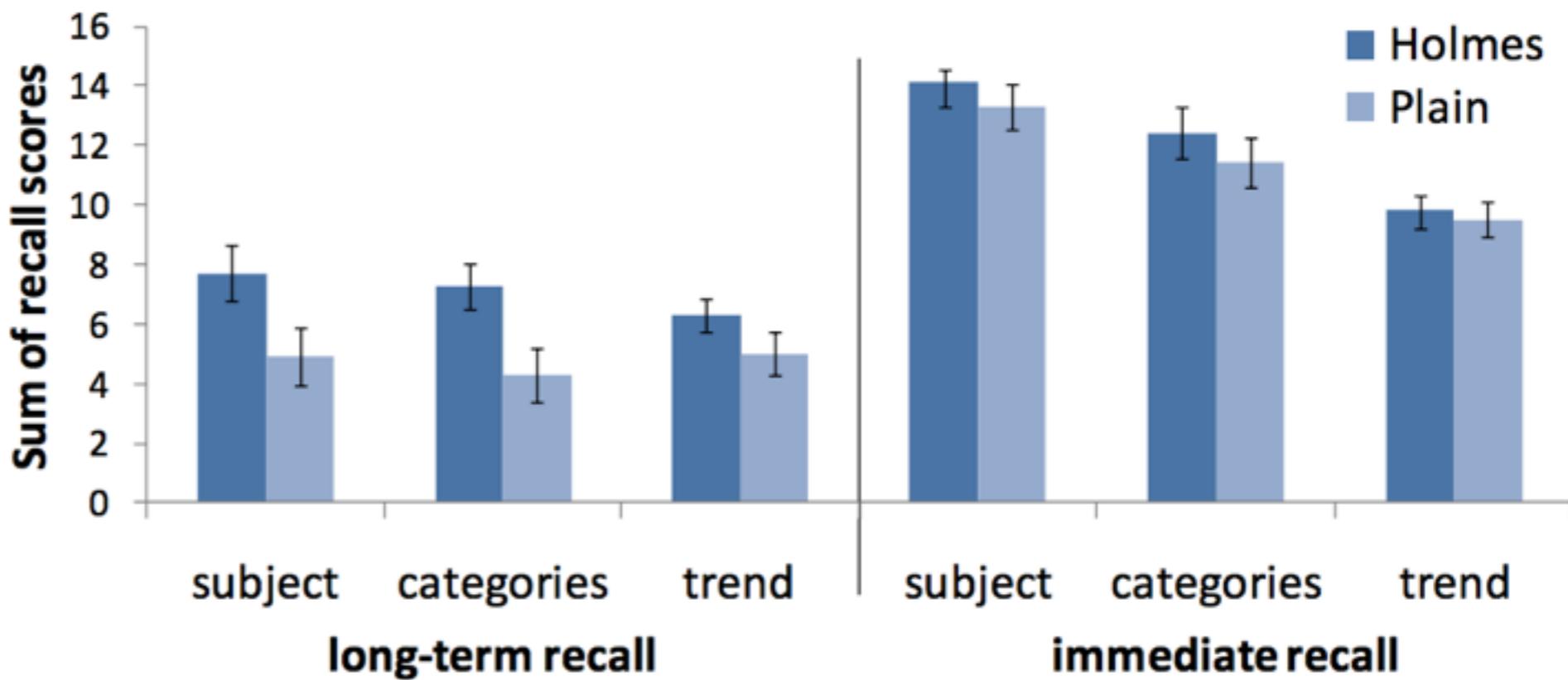
Experiment Step

- part1
 - images shown to subject
 - subject asked **4 questions** about chart
- part2
 - 2 group (10 / 10) short / long term recall test
 - **after 5 min**, or after **2~3 weeks**

description score



long / short term score



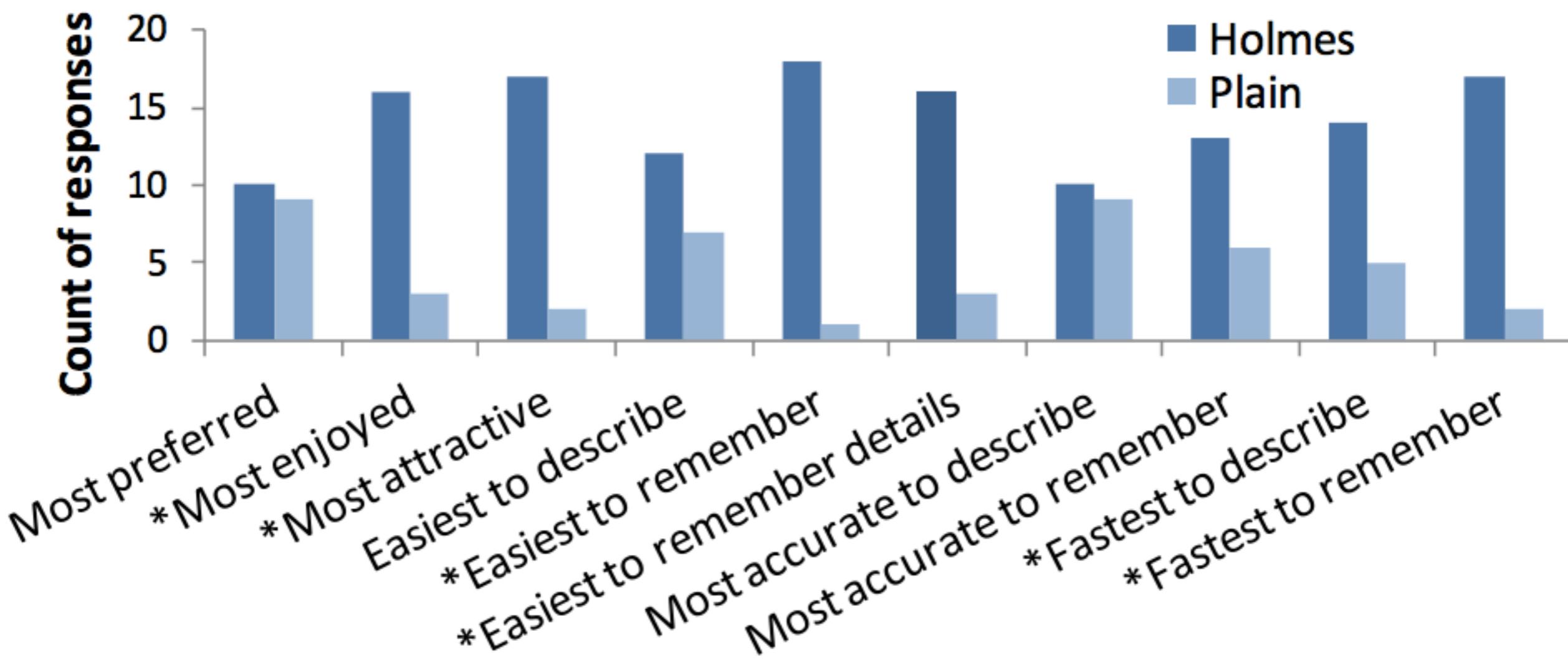


Chart Junk Debate

「凡對讀者的智力抱著懷疑態度來對待的人，
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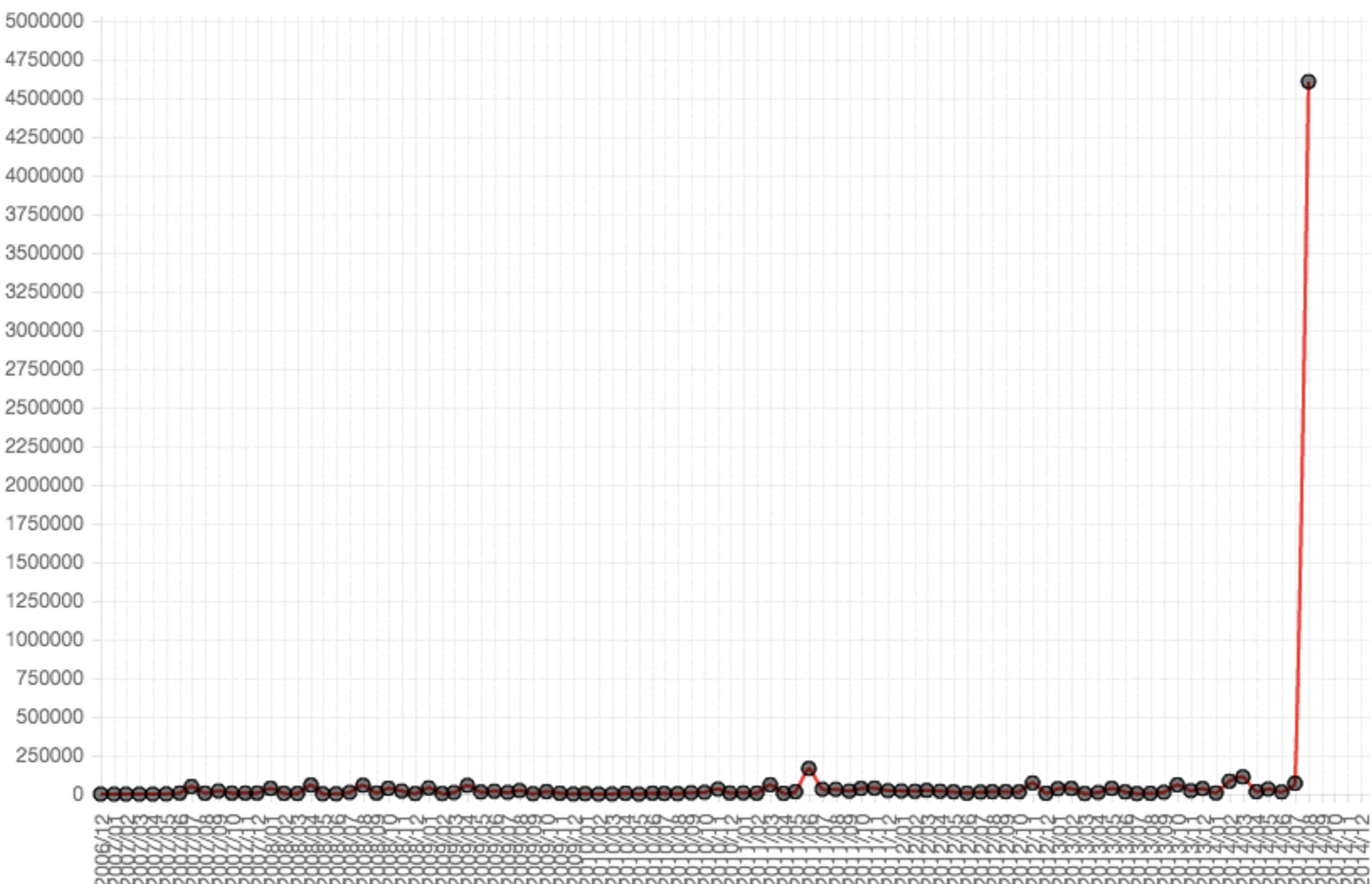


中華民國運動神經元疾病病友協會捐款金額統計

讀 分享 1.2 萬

資料來源：[智邦公益館](#) (線上信用卡捐款頁面)

從 2007 年起，捐款總金額 652 萬 1362 元，2014 年 8 月單月截至今日為止金額 460 萬 6828 元，佔總金額 **70.6%**。下圖 X 軸為時間，Y 軸為金額 (新台幣)



高雄地下管線圖

Facebook 訂閱 分享 5.4 萬

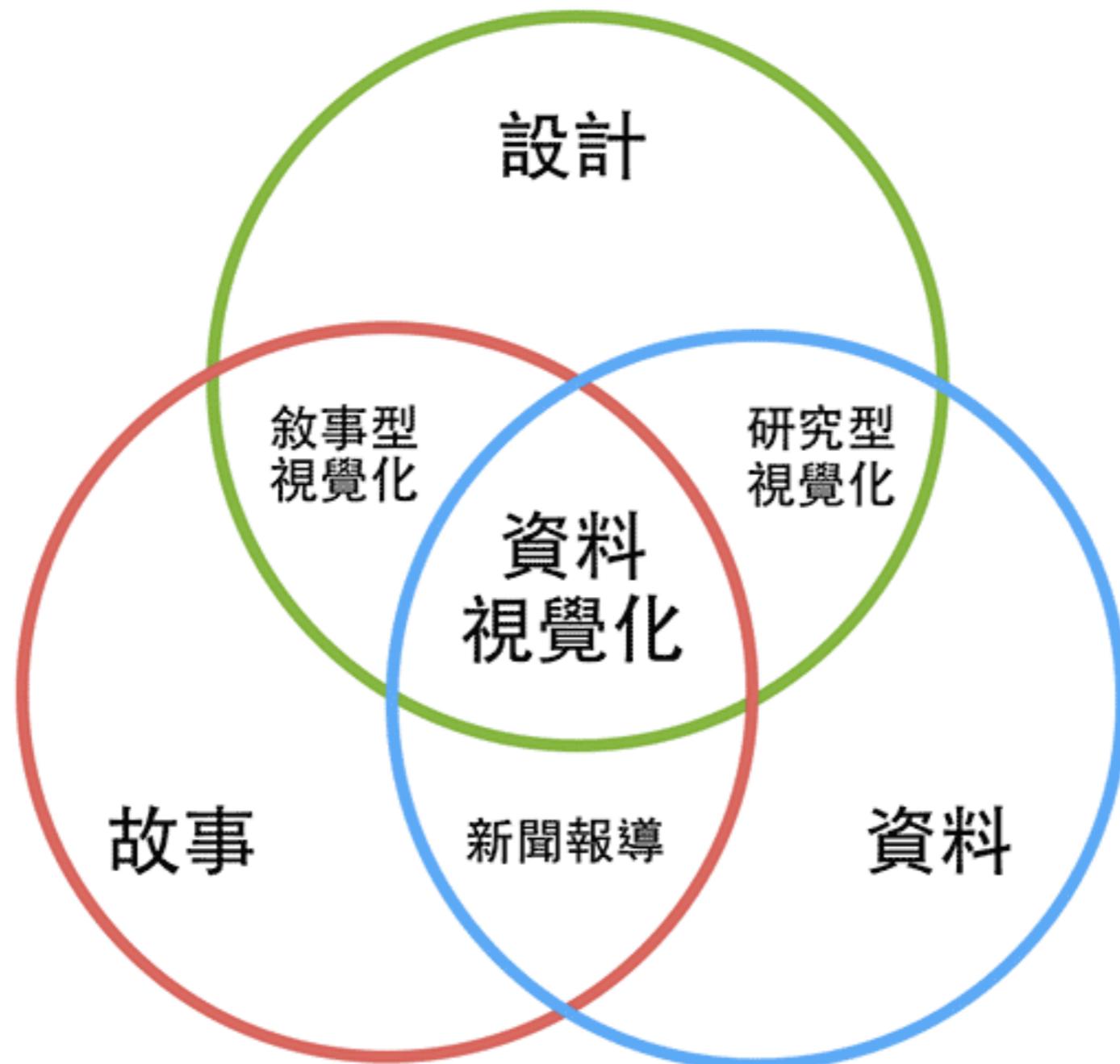
包含中石化、中油、台塑等管線，詳情請參考下方網址。

資料非官方釋出故有不全及誤差，與氣爆事件也可能並非直接相關，因此僅供參考。



資料來源: https://github.com/mutollsp/kh_pplines / Facebook Post of BillyPan

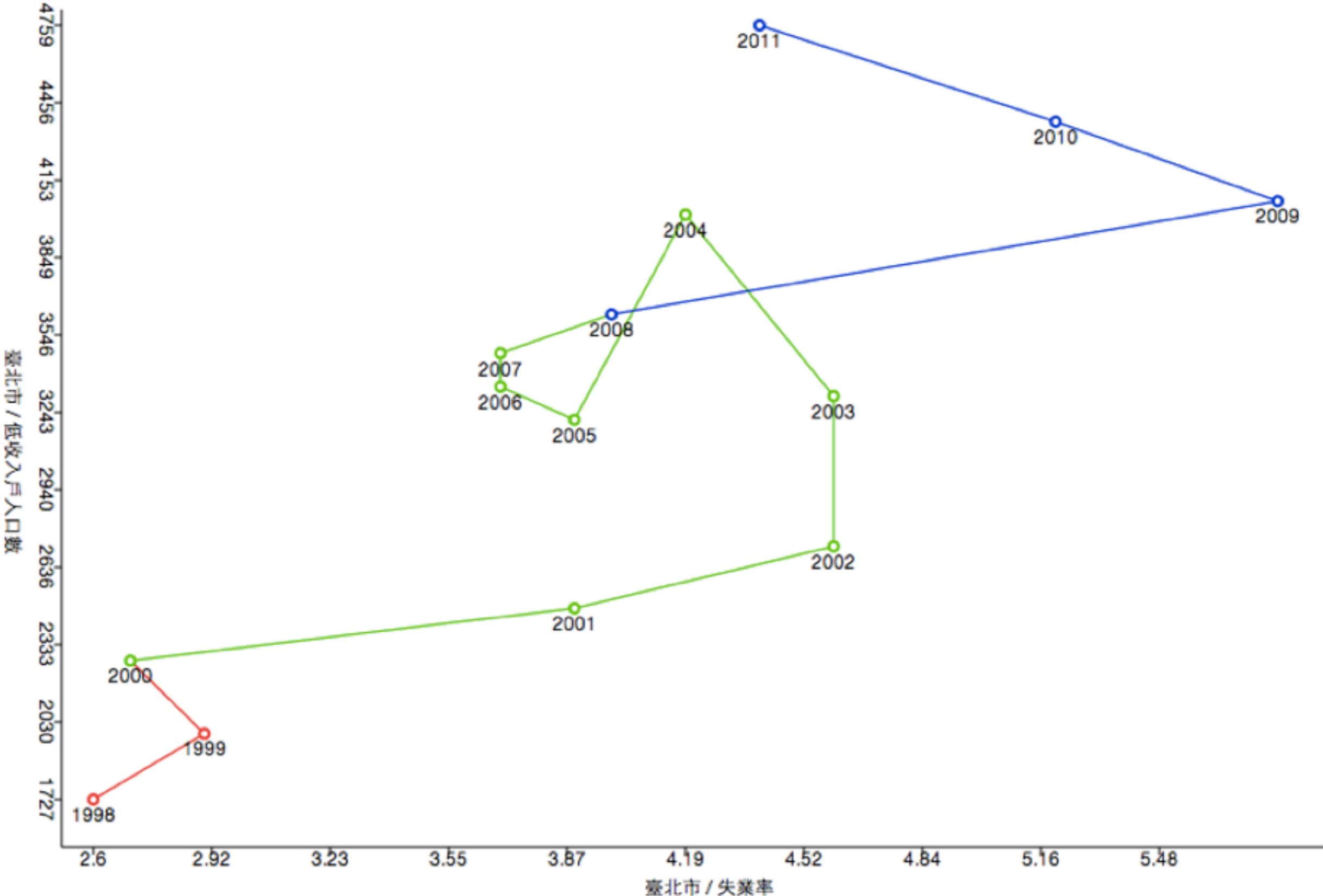
資料視覺化的三要素



台北市失業率與低收入戶人口數之比較

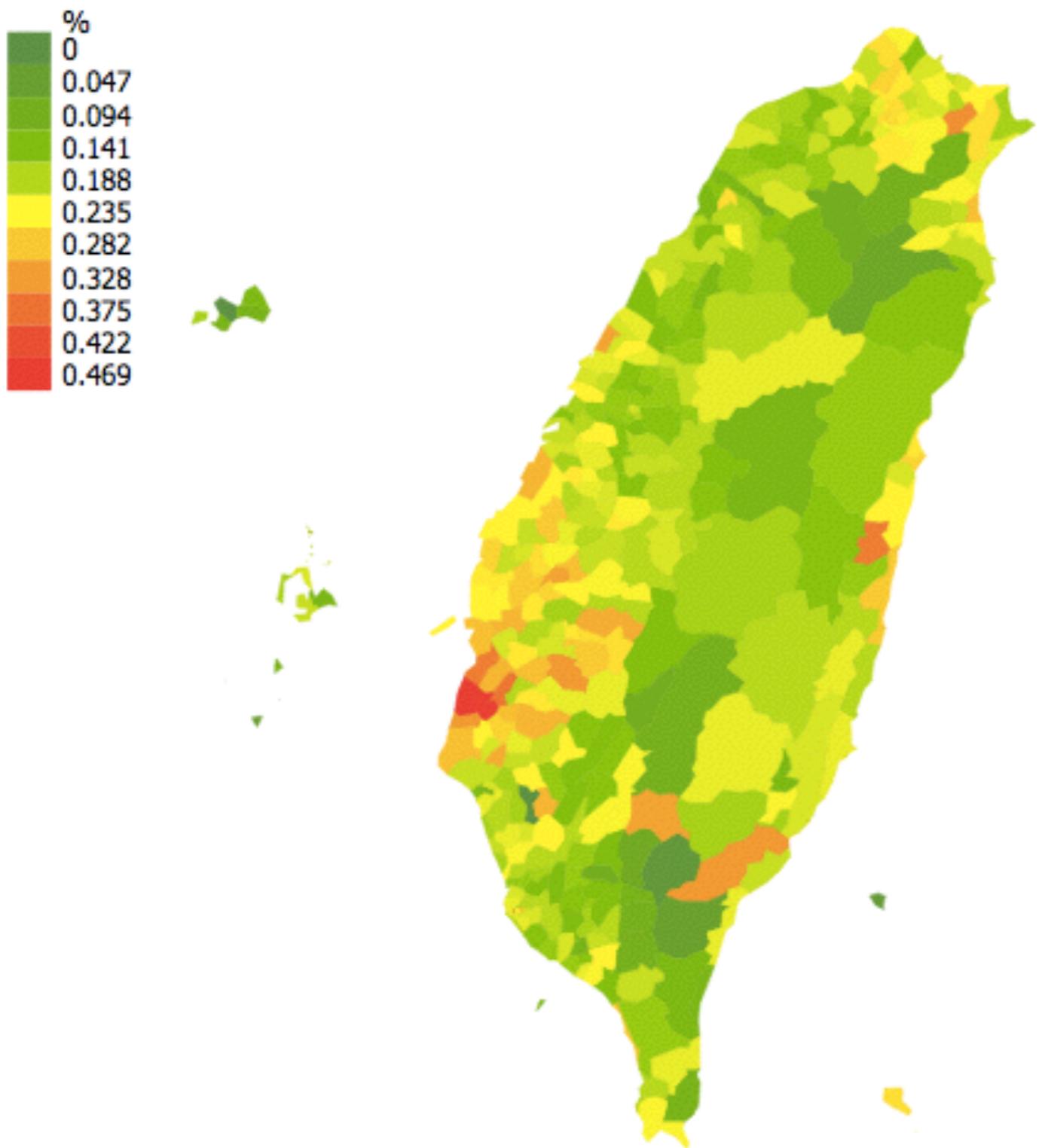
【改制後】縣市人力資源重要統計指標 依 指標, 期間 與 縣市	
	臺北市
失業率	
1998	2.6
1999	2.9
2000	2.7
2001	3.9
2002	4.6
2003	4.6
2004	4.2
2005	3.9
2006	3.7
2007	3.7
2008	4.0
2009	5.8
2010	5.2
2011	4.4
2012	4.3
2013	4.2

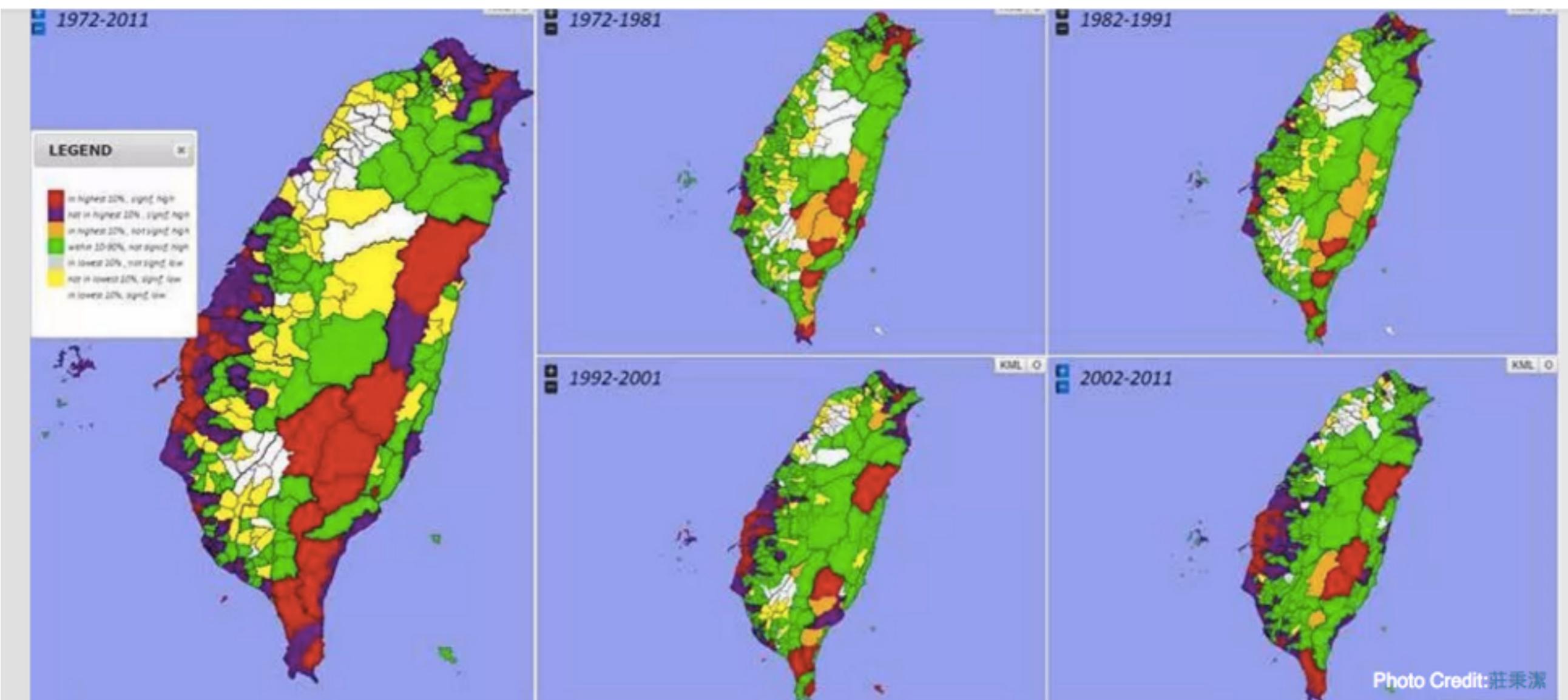
【改制後】縣市社會救助重要統計指標 依 指標, 期間 與 縣市	
	臺北市
低收入戶人口數	
1998	17,270
1999	19,843
2000	22,706
2001	24,760
2002	27,184
2003	33,071
2004	40,184
2005	32,146
2006	33,437
2007	34,752
2008	36,274
2009	40,708
2010	43,823
2011	47,597
2012	51,282
2013	50,649



失業率 ft. 低收入人口數 台北市(1998 ~ 2011)

鄉 鎮 級 台 灣 癌 症 地 圖





台灣40年癌症地圖：台北是健康了，但中彰雲嘉卻變成「重癌鄉症」

2016/04/17 20:33:00 發表於 | 社會・健康



Yang

現任 關鍵評論網The News Lens 編輯；有些人喜歡，有些人不喜歡。

[看更多Yang的文章](#)

追蹤這位作者



台灣 40 年癌症地圖（關鍵評論網）

<http://www.thenewslens.com/post/312678/>

中興大學環境工程教授莊秉潔17日在臉書貼文公布，最新的全癌症死亡率分佈地圖（1972-2011）。並表示大家可以看到中雲嘉持續惡化中（封面照片圖為年齡標準化後之死亡率。）

莊秉潔教授指出，台北在1981年許多鄉鎮不是紅色就是紫色，分別代表全台最高的10%或顯著高的鄉鎮。但自從1980後工廠遷出台北及1997後台北捷運陸續通車後，其癌症相對於全台就開始減少了。已經有不少行政區成了代表最低10%的鄉鎮區的白色或顯著低的黃色。但是中雲嘉就正好相反。

(... 中略 ...)

三立報導，中山醫學大學教授廖勇柏最近剛完成台灣四十年癌症地圖，畫面上紅色區塊就是癌症死亡率最高的區域，在西南沿海、宜蘭部分鄉鎮以及花東山區癌症死亡率都偏高，全國最高的是台南的北門區。

廖勇柏說：「地下水有砷的污染，後來全面改用自來水，它（數據）已經在下降了。」不喝地下水之後終於有改善，但早年的砷殘留依然對人體有很大的殘害，因為研究顯示砷會致癌，兩者有極大的相關，因此，近年來在蘭陽平原也發現地下水含砷，可解釋為什麼宜蘭的部分鄉鎮呈現紅色，排進全國罹癌致死率前10%名單。

北門等過去烏腳病地區的罹癌率雖然高，但已經逐年下降，反倒是雲林麥寮，過去二十年的罹癌數字是攀升，而且變成顯著，但相對的，從地圖中可顯示，桃竹苗一帶的罹癌致死率比較低。

八仙事件傷患病情發展

by 資料視覺化



八仙事件傷患病情發展

U.S. GUN DEATHS IN

2013 2010

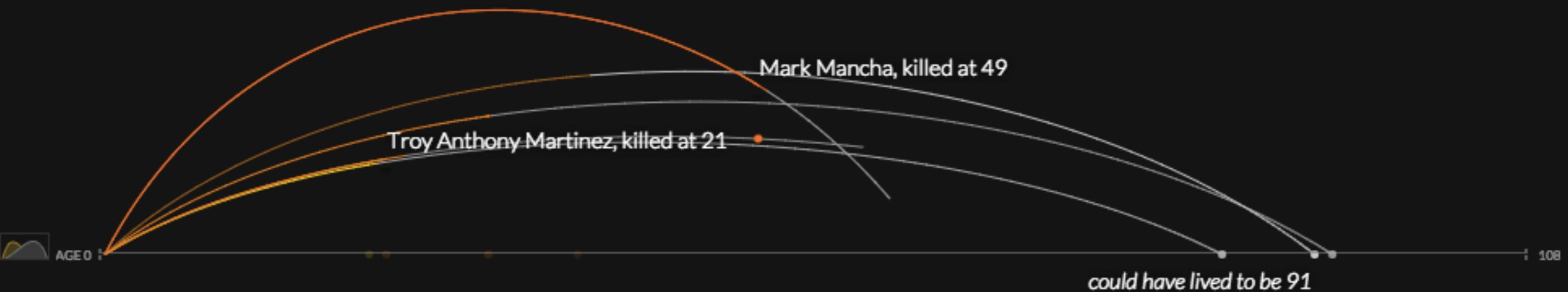
JANUARY

5

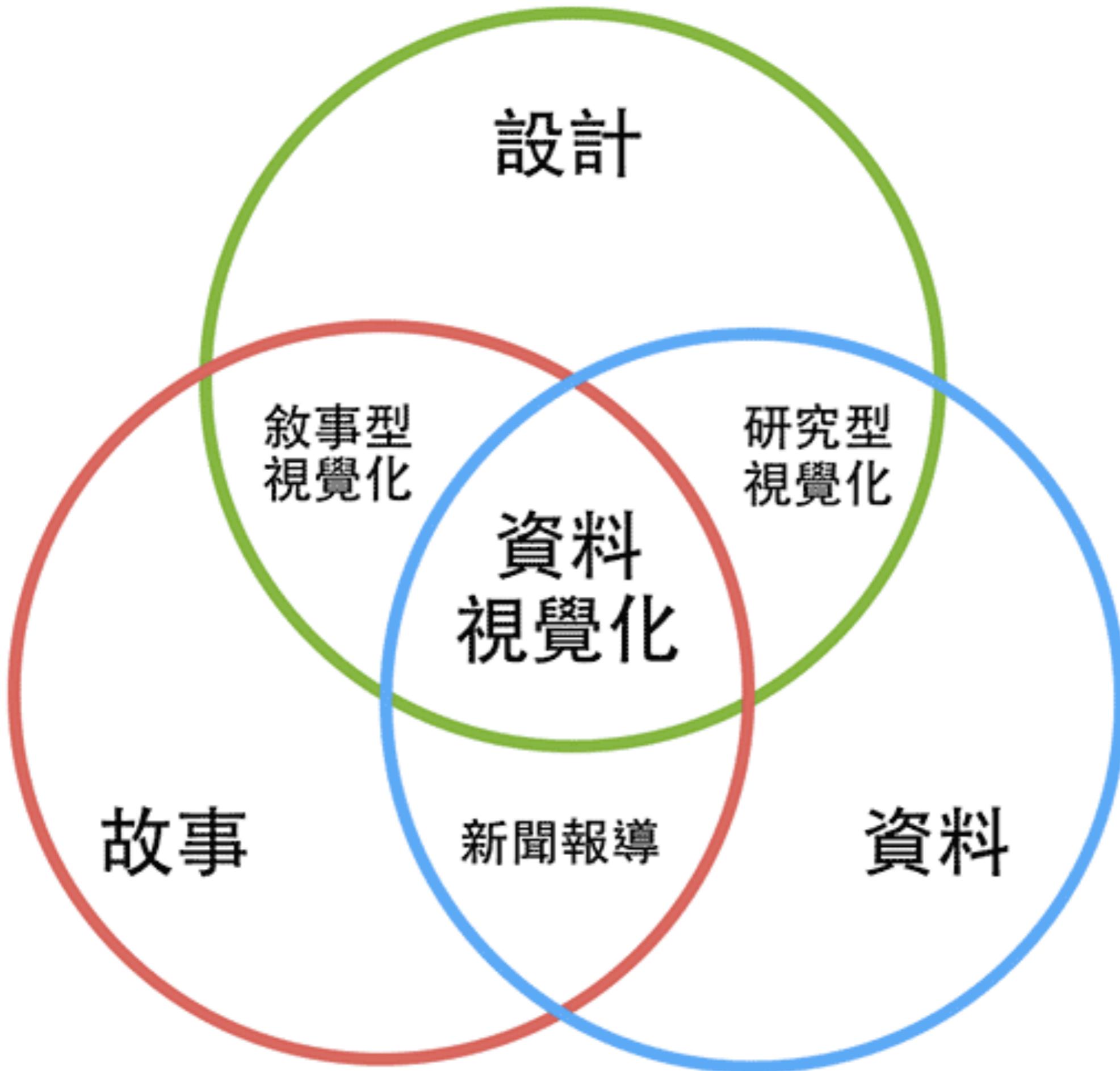
PEOPLE KILLED

184

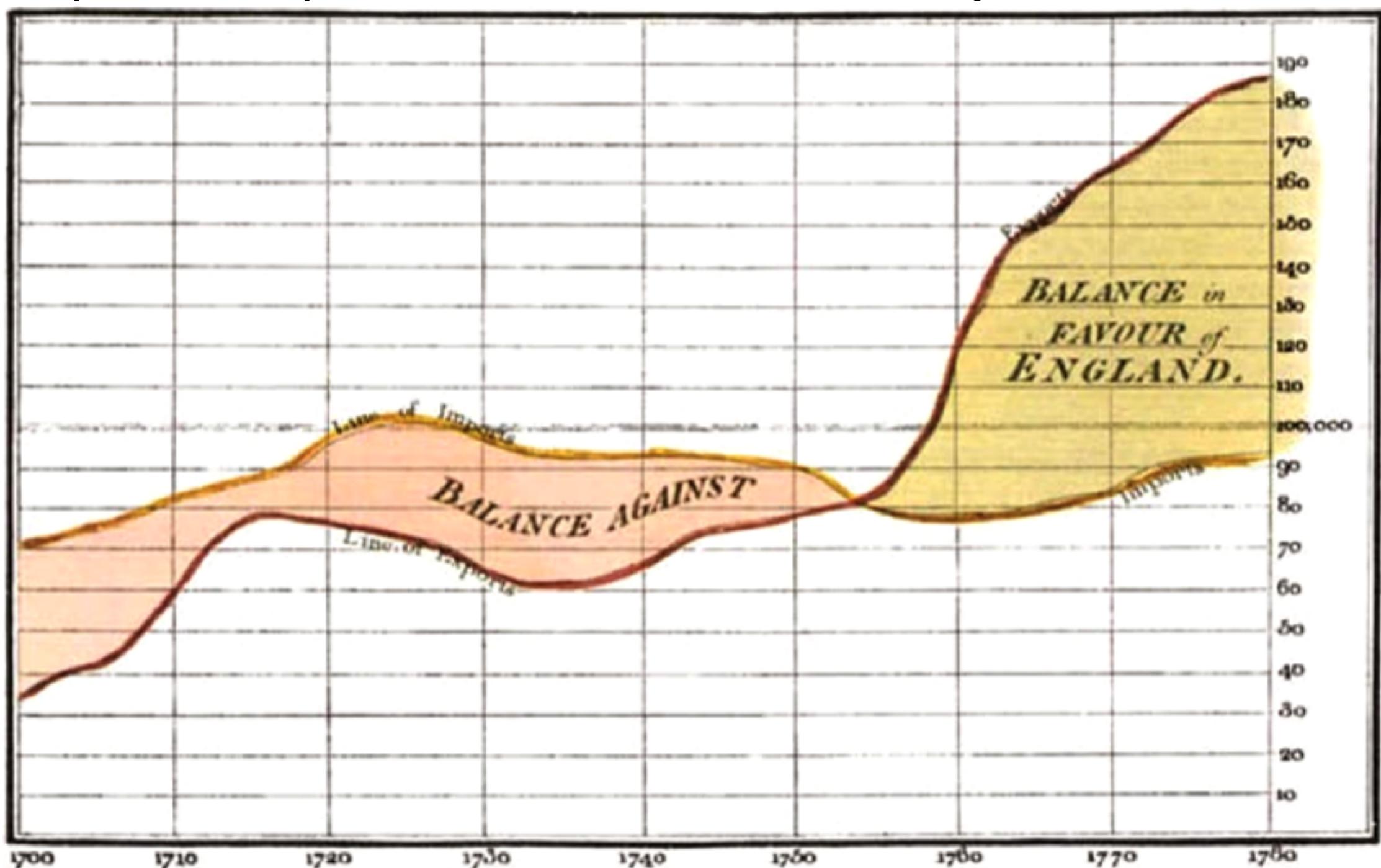
STOLEN YEARS



U.S. Gun Deaths in 2013 / 2010



exports and imports to and from Denmark & Norway from 1700 to 1780



The Bottom line is divided into Years, the Right hand line into £10,000 each.

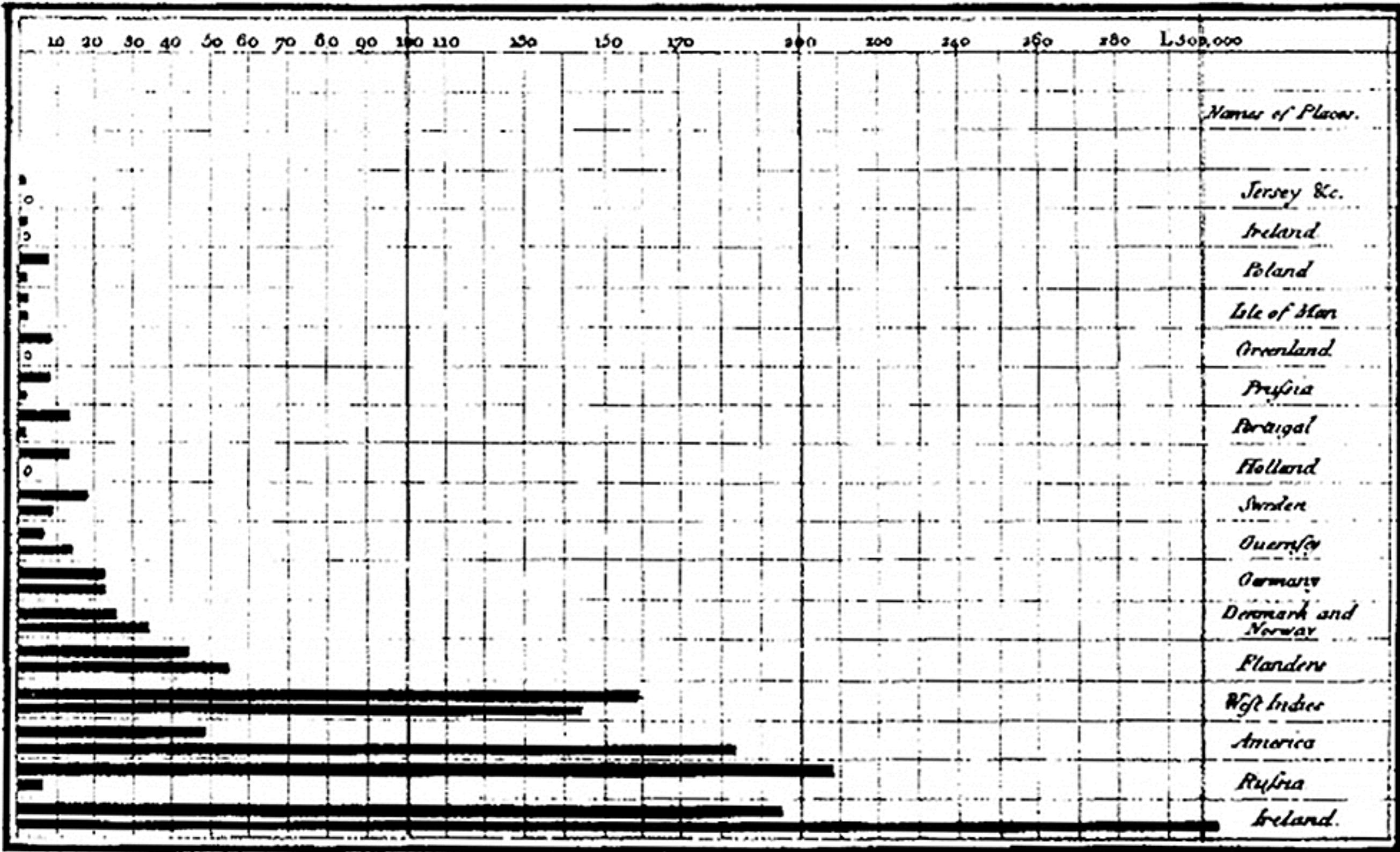
Published as the Act directs, 1st May 1786, by W^m Playfair.

No. 10, Fleet-street, London.

William Playfair, 1786

scottish engineer and economist

Exports and Imports of SCOTLAND to and from different parts for one Year from Christmas 1780 to Christmas 1781.



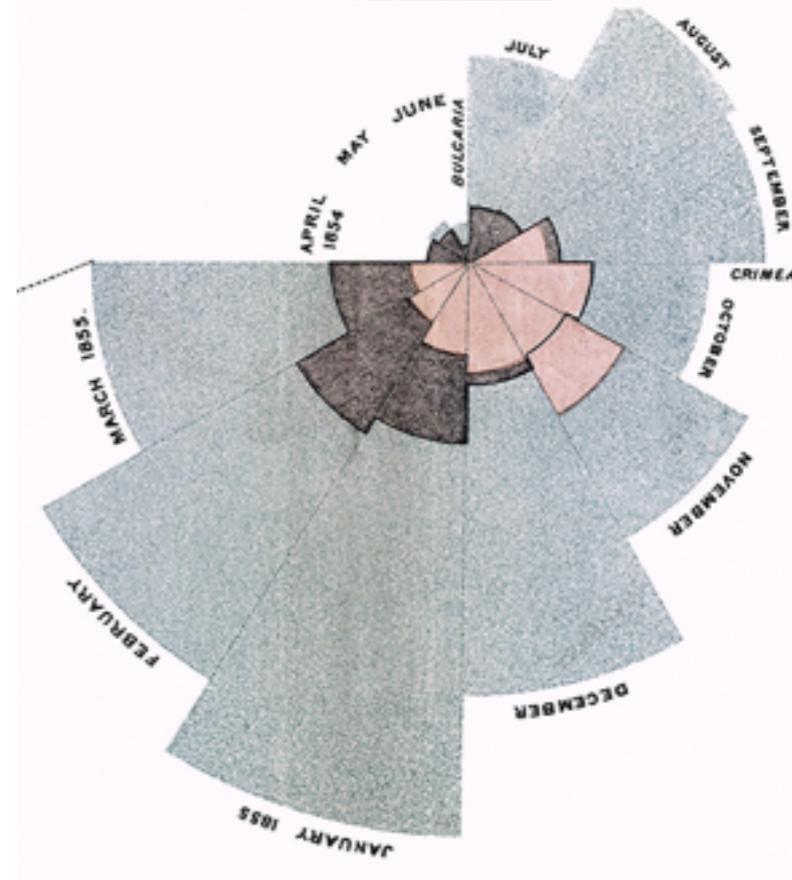
export & import of Scotland to and from different parts from 1780 christmas to 1781 christmas

william play fair, 1786

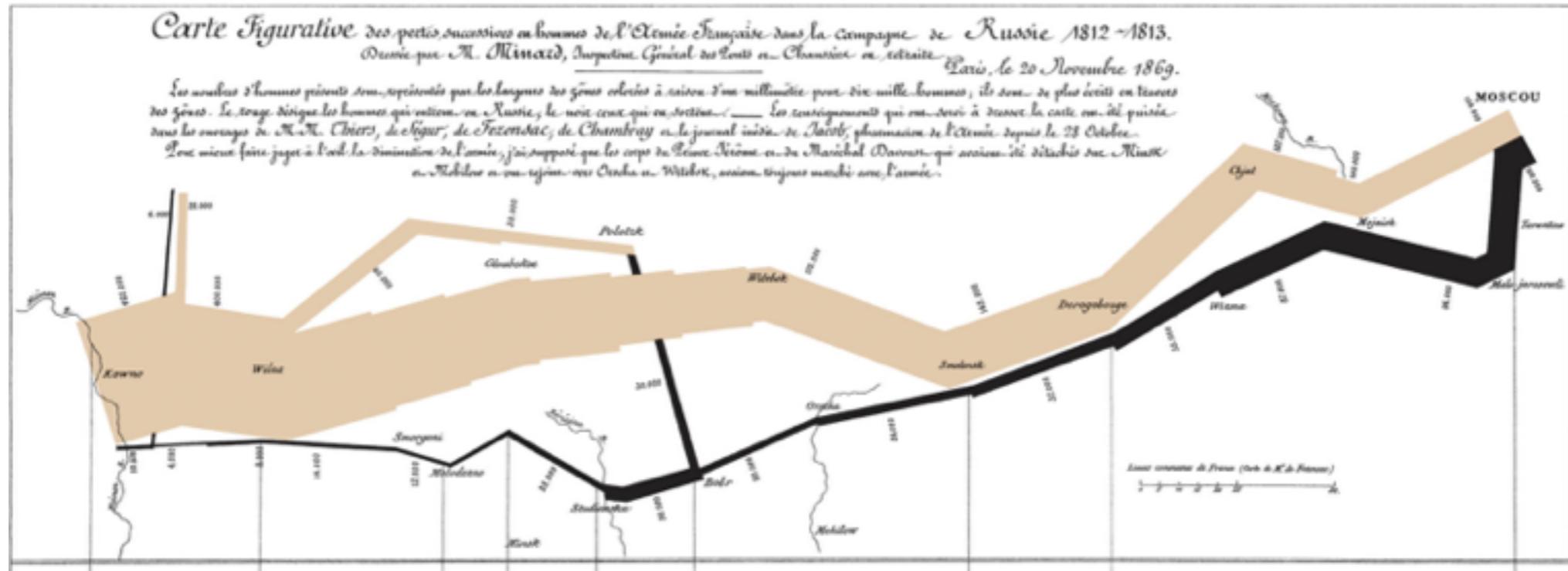
1854



**DIAGRAM OF THE CAUSES OF MORTALITY
IN THE ARMY IN THE EAST.**

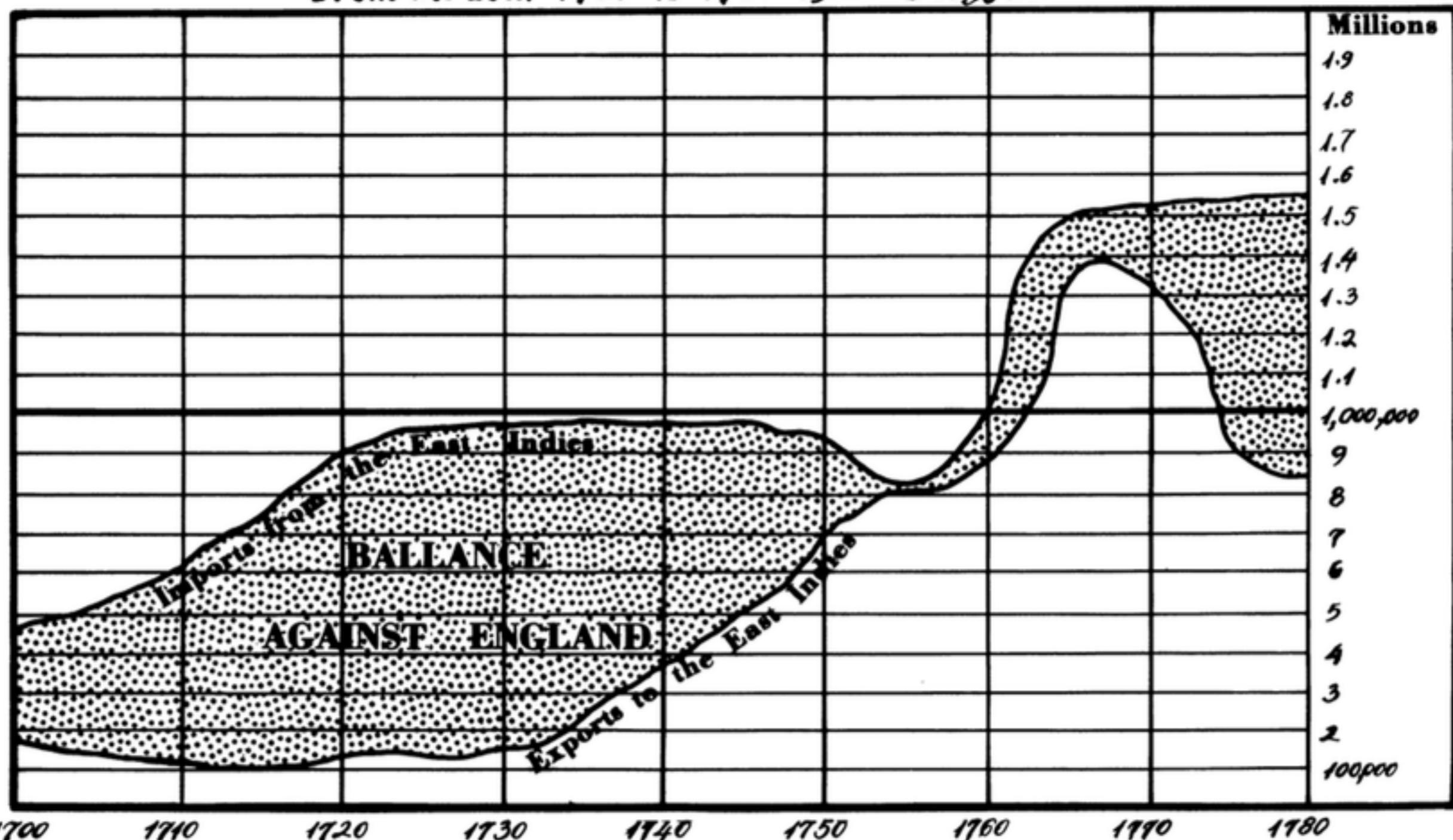


1858



1869

CHART of EXPORTS and IMPORTS to and from the EAST INDIES
From the Year 1700 to 1780 by W. Playfair



The Bottom Line is Divided into Years the Right hand Line into HUNDRED THOUSAND POUNDS
 Single the Right
 is face page 31st Published in the Ad. Givine 16th Aug. 1785

Figure 6. Curve-difference chart after Playfair.

CHART of EXPORTS and IMPORTS to and from the EAST INDIES
 From the Year 1700 to 1780 by W. Playfair

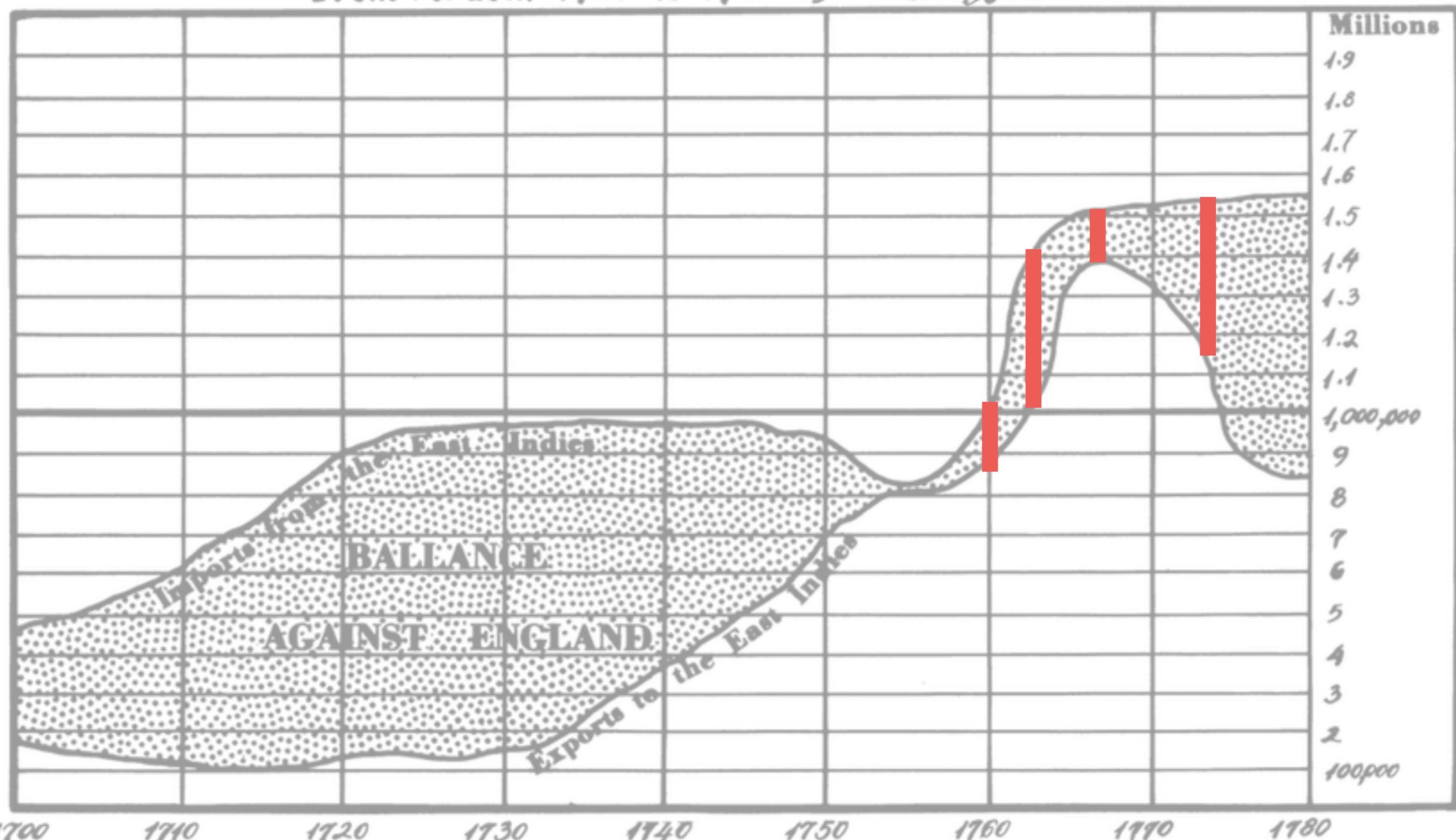


The Bottom Line is Divided into Years the Right hand Line into HUNDRED THOUSAND POUNDS
Single the Height
is since Page 31st

Published in the Ad. Givine 16th Aug. 1785

Figure 6. Curve-difference chart after Playfair.

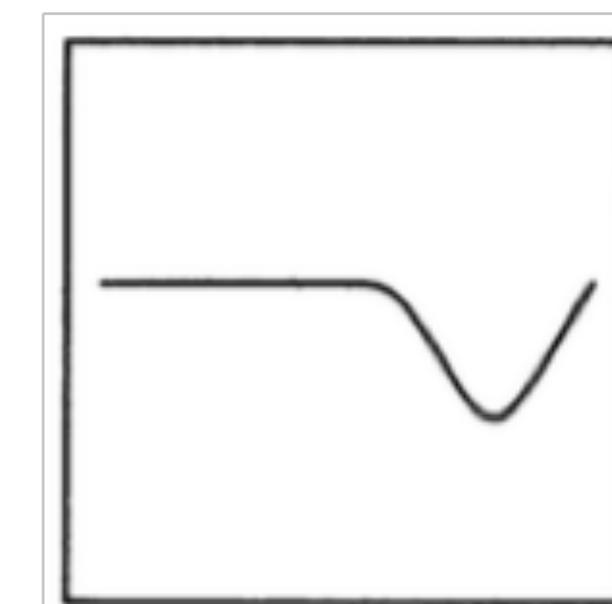
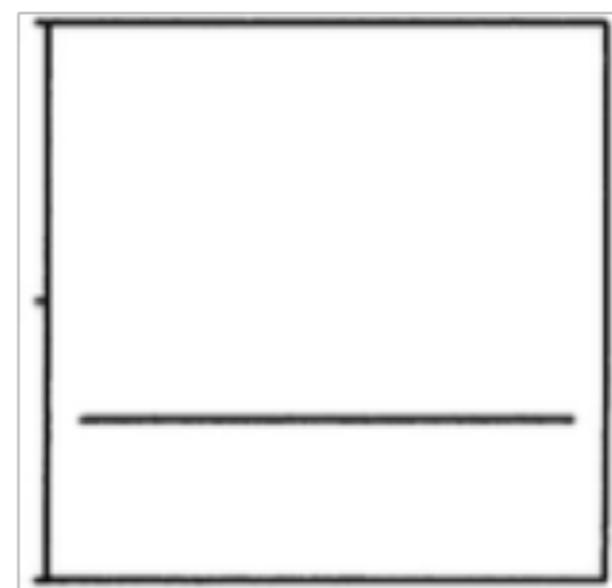
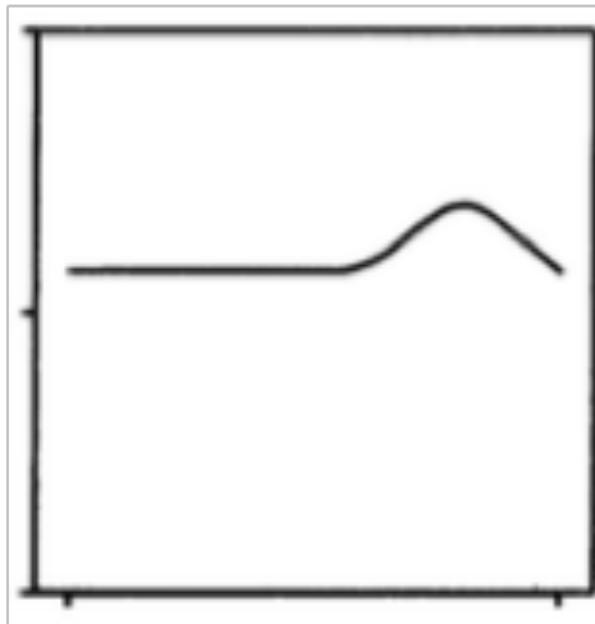
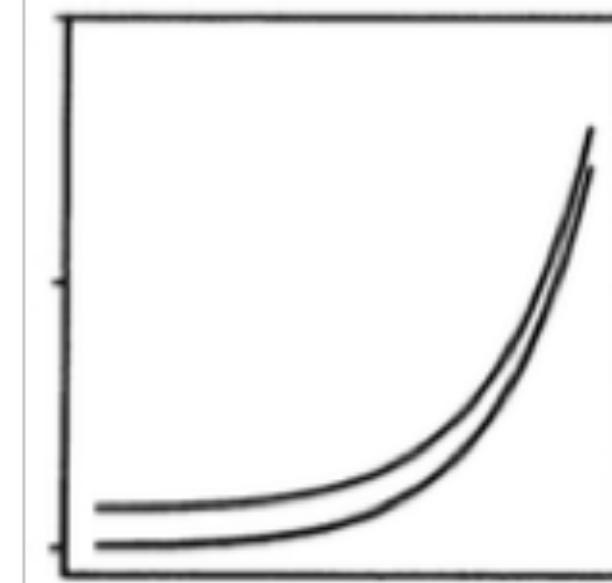
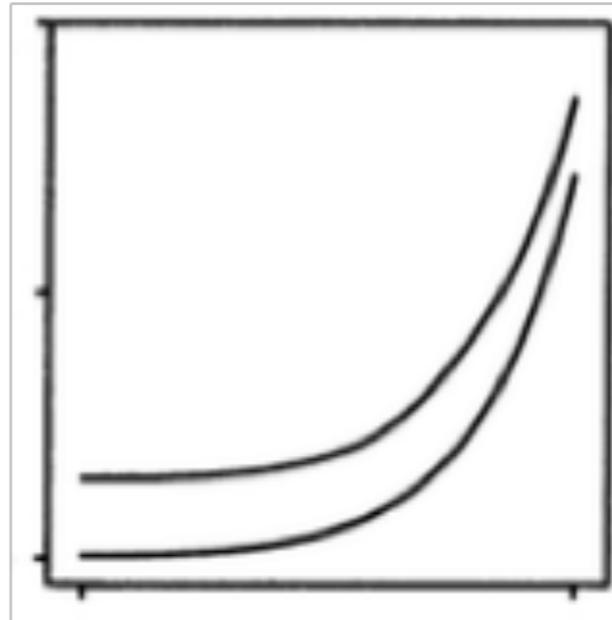
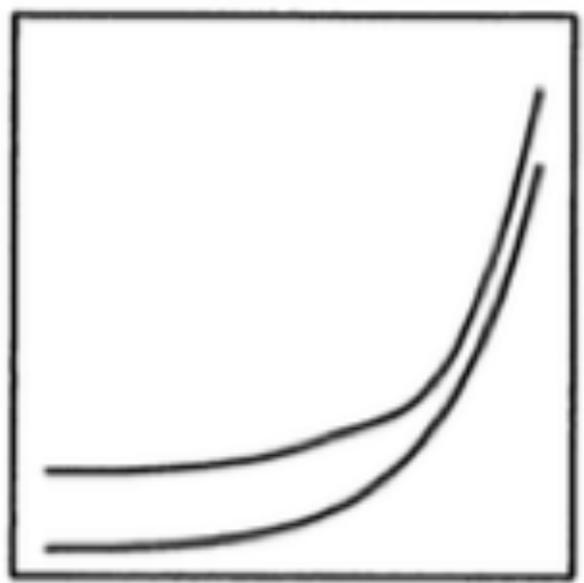
CHART of EXPORTS and IMPORTS to and from the EAST INDIES
From the Year 1700 to 1780 by W. Playfair

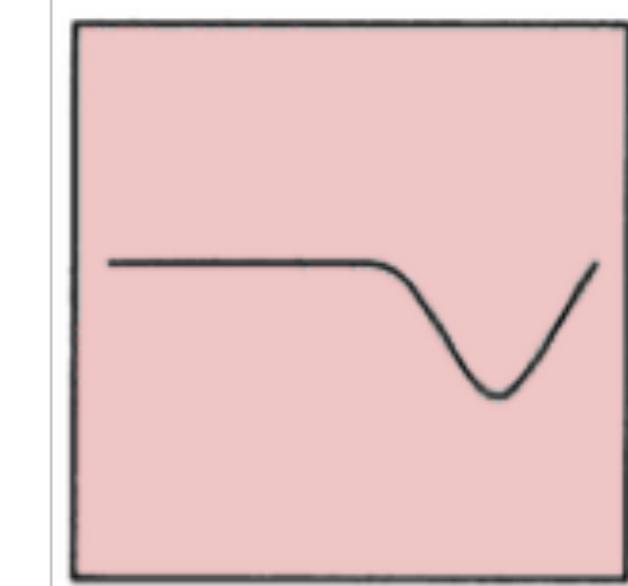
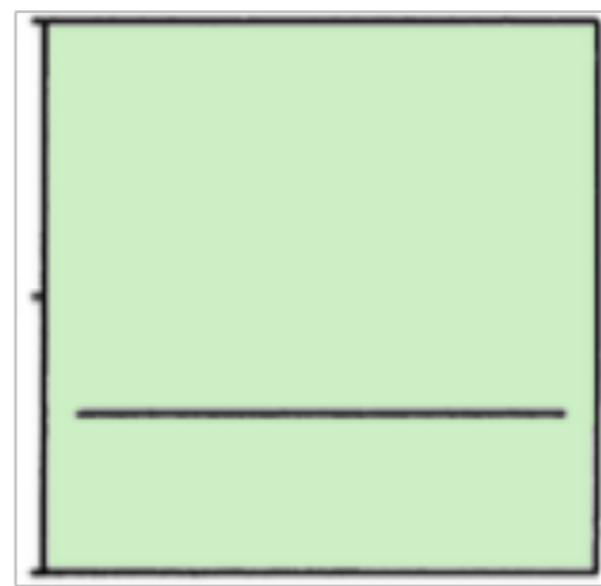
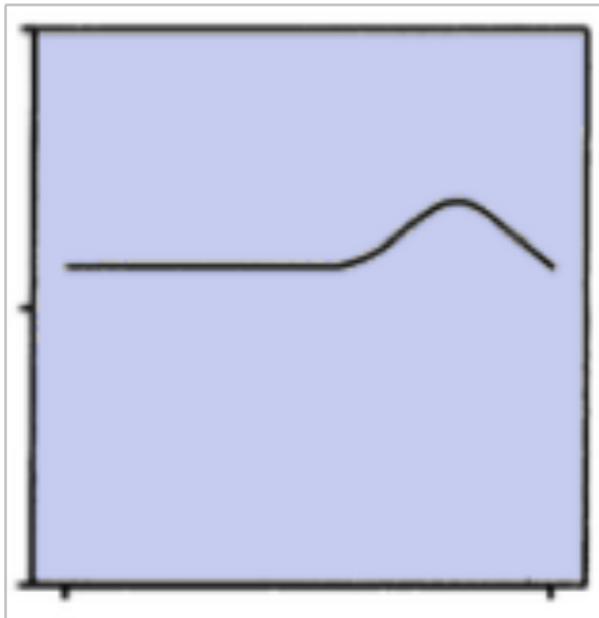
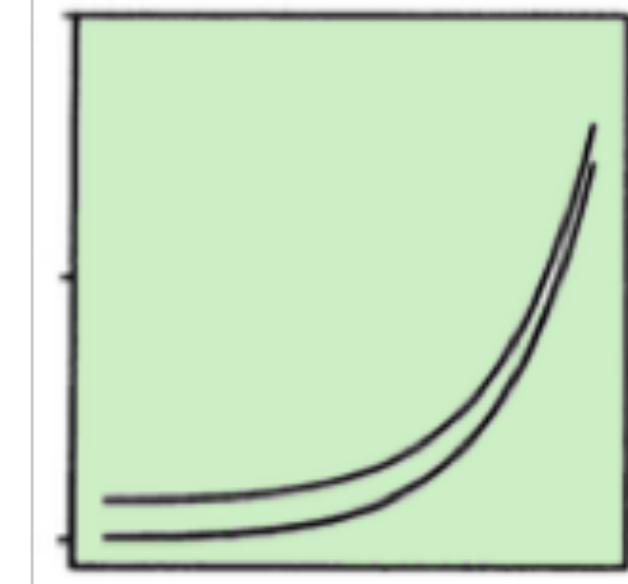
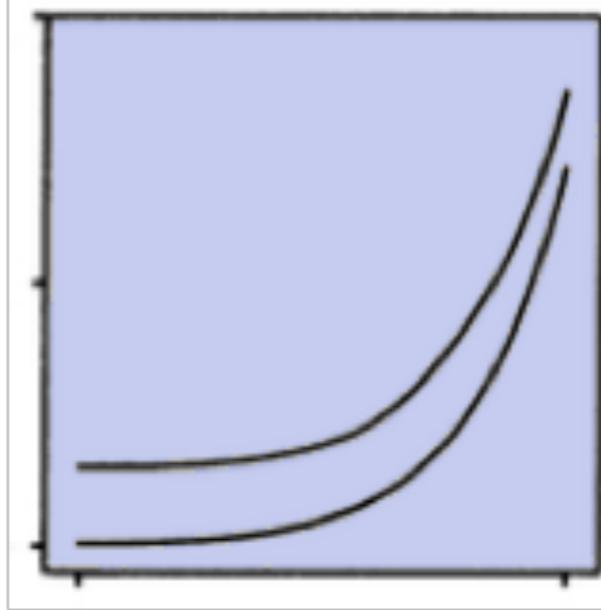


The Bottom Line is Divided into Years the Right hand Line into HUNDRED THOUSAND POUNDS
 Single the Height
 is since Page 31st

Published in the Ad. Givine 16th Aug. 1785

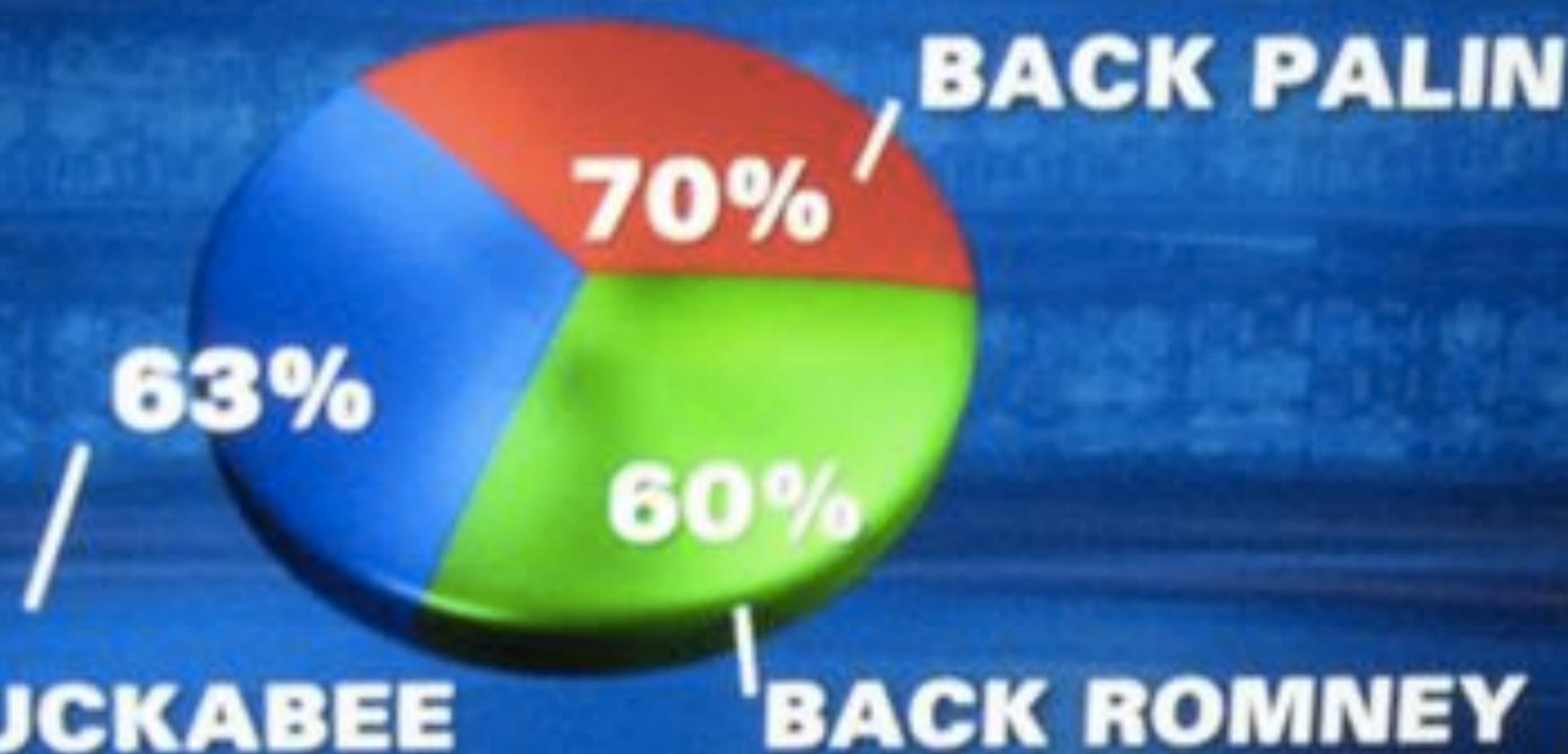
Figure 6. Curve-difference chart after Playfair.





2012 PRESIDENTIAL RUN

GOP CANDIDATES

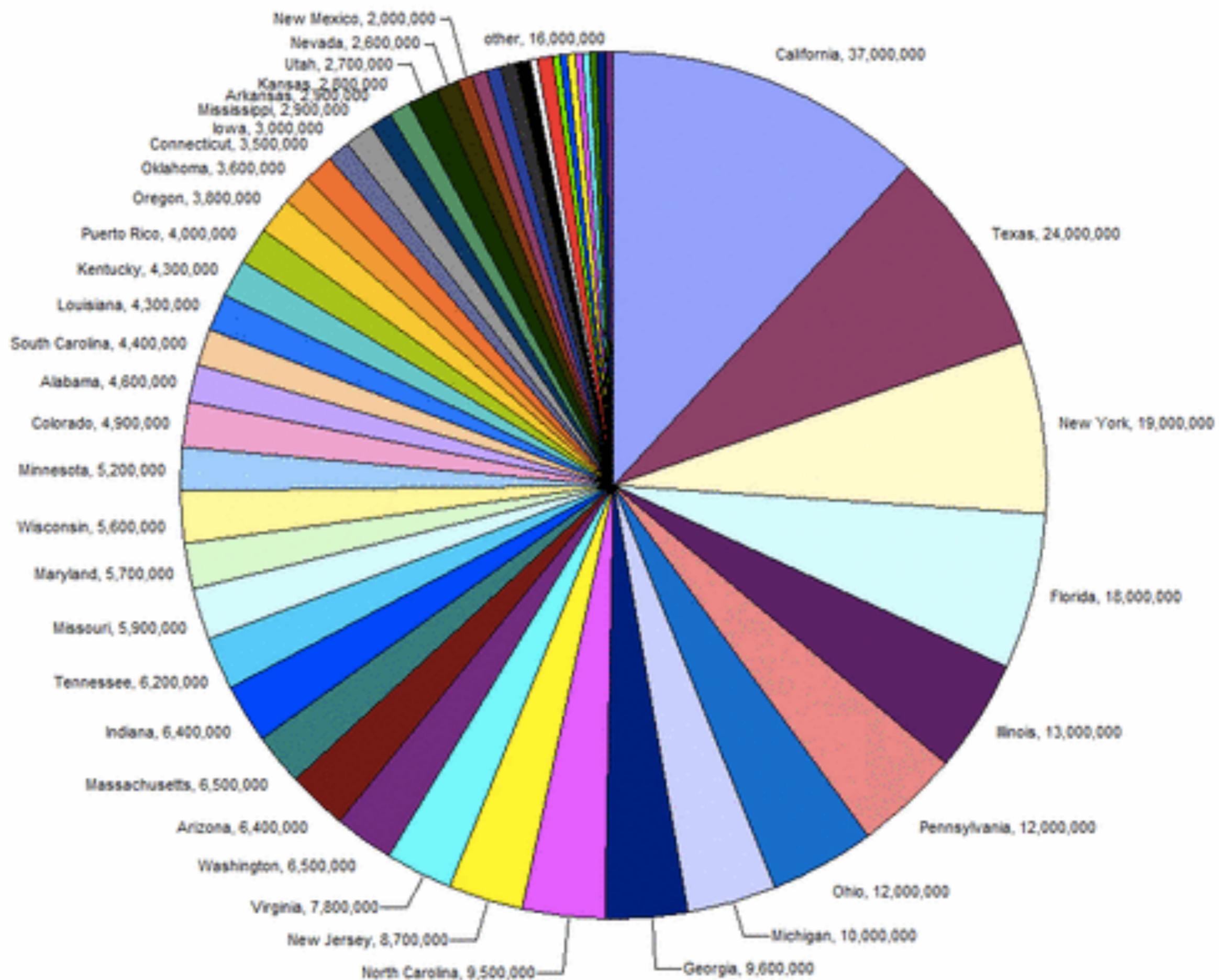


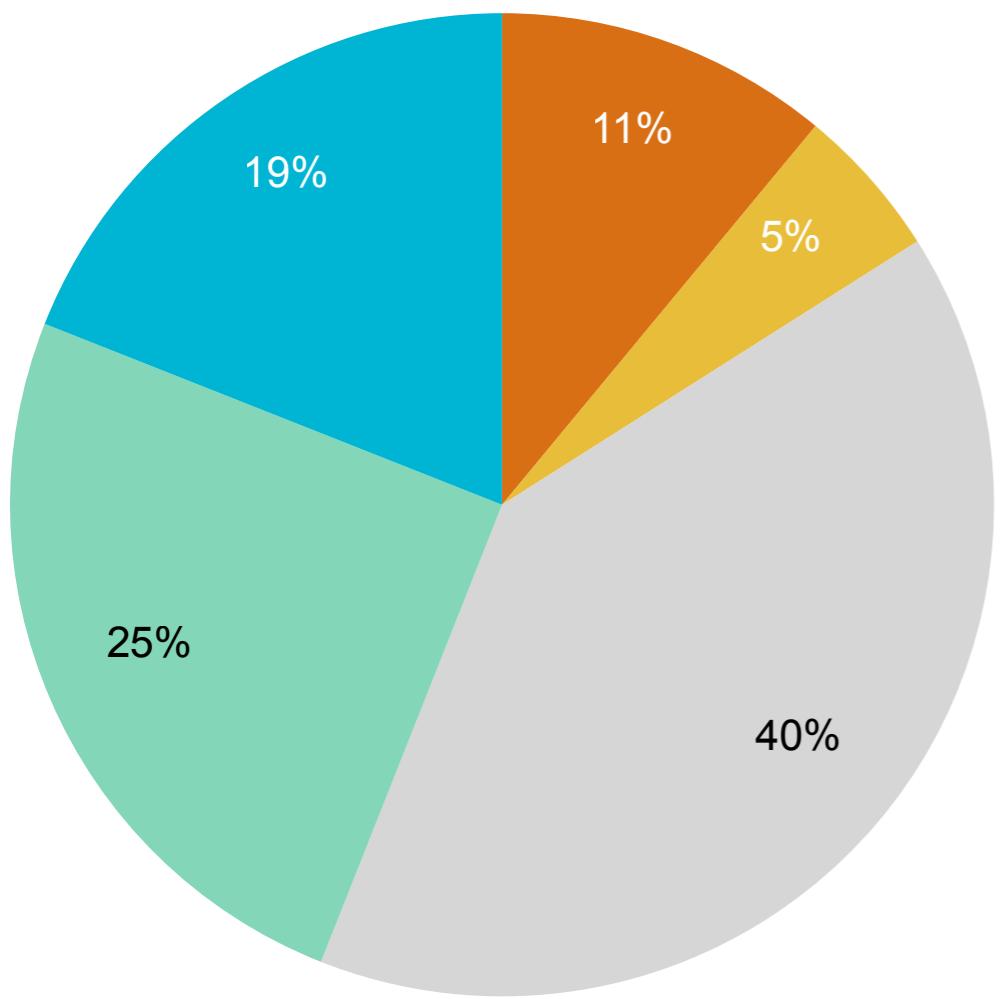
SOURCE: OPINIONS

DYNAMIC

FOX

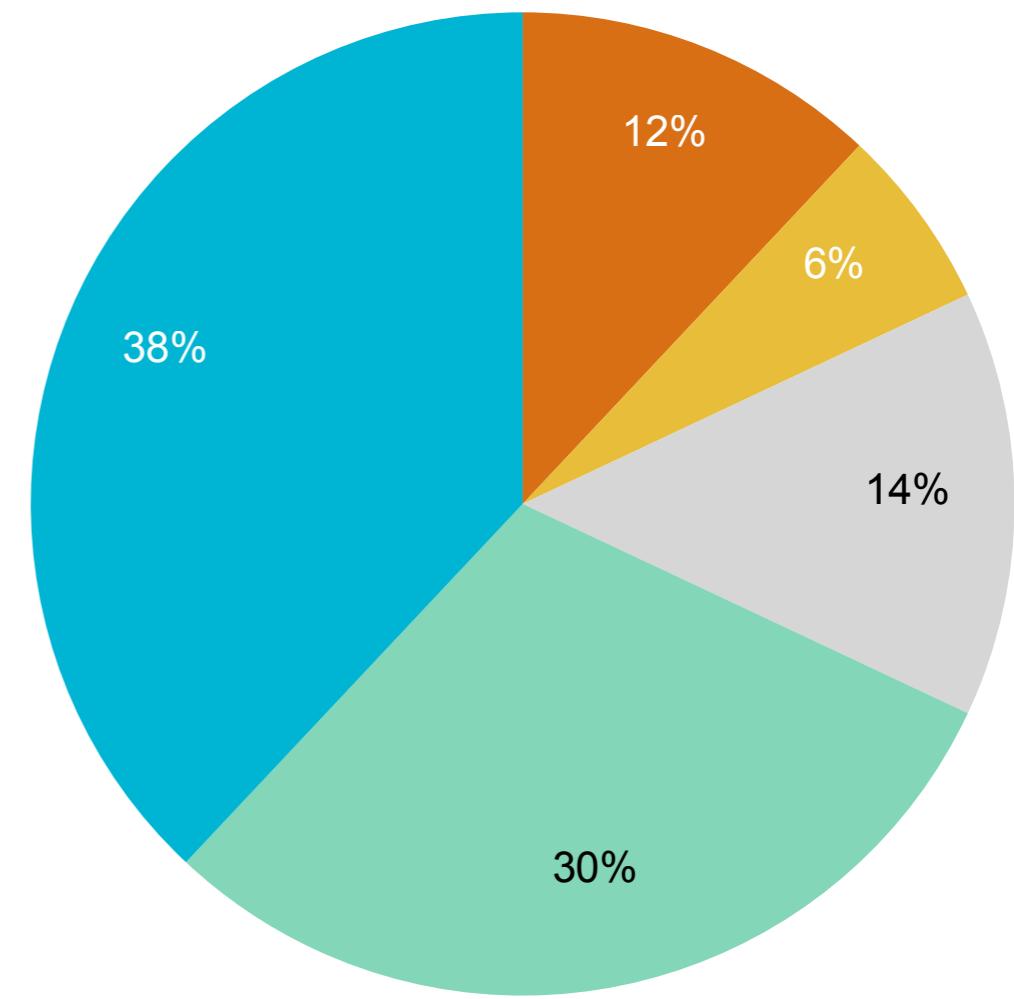
47°





Before Class

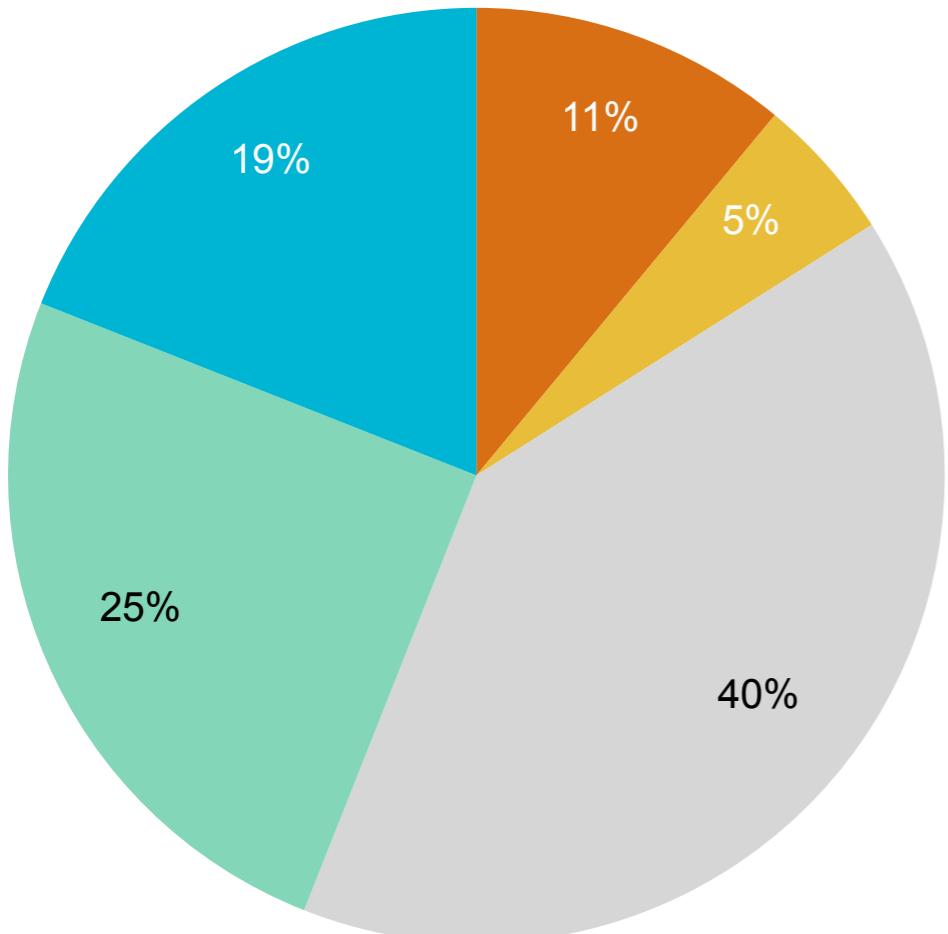
- Bored
- Not Great
- OK
- Kind of Interest
- Excited



After Class

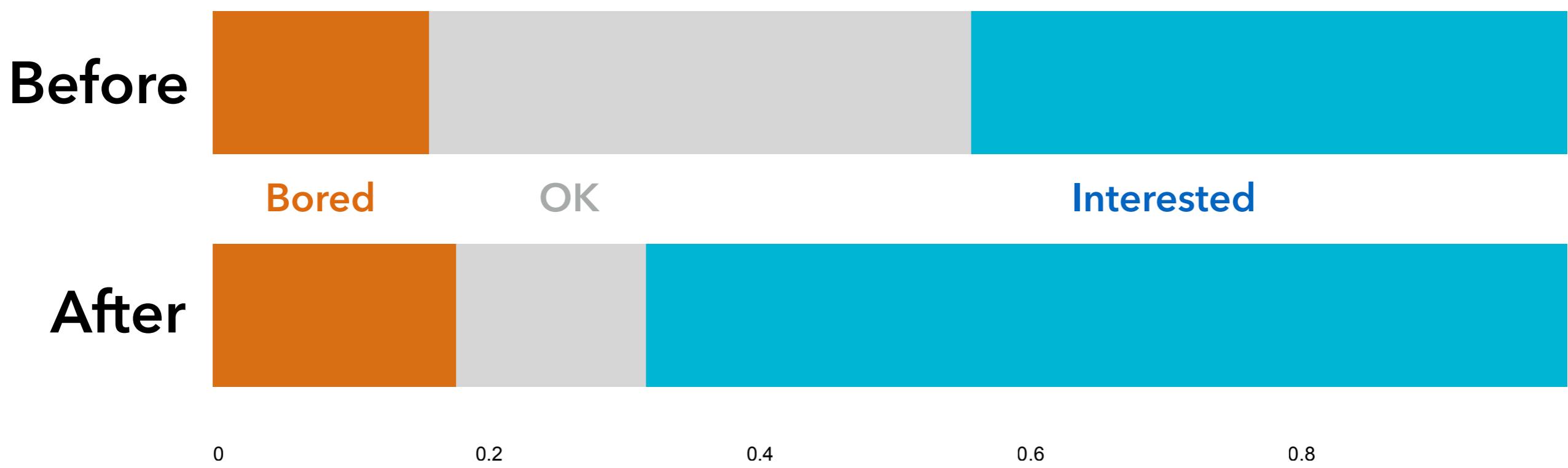
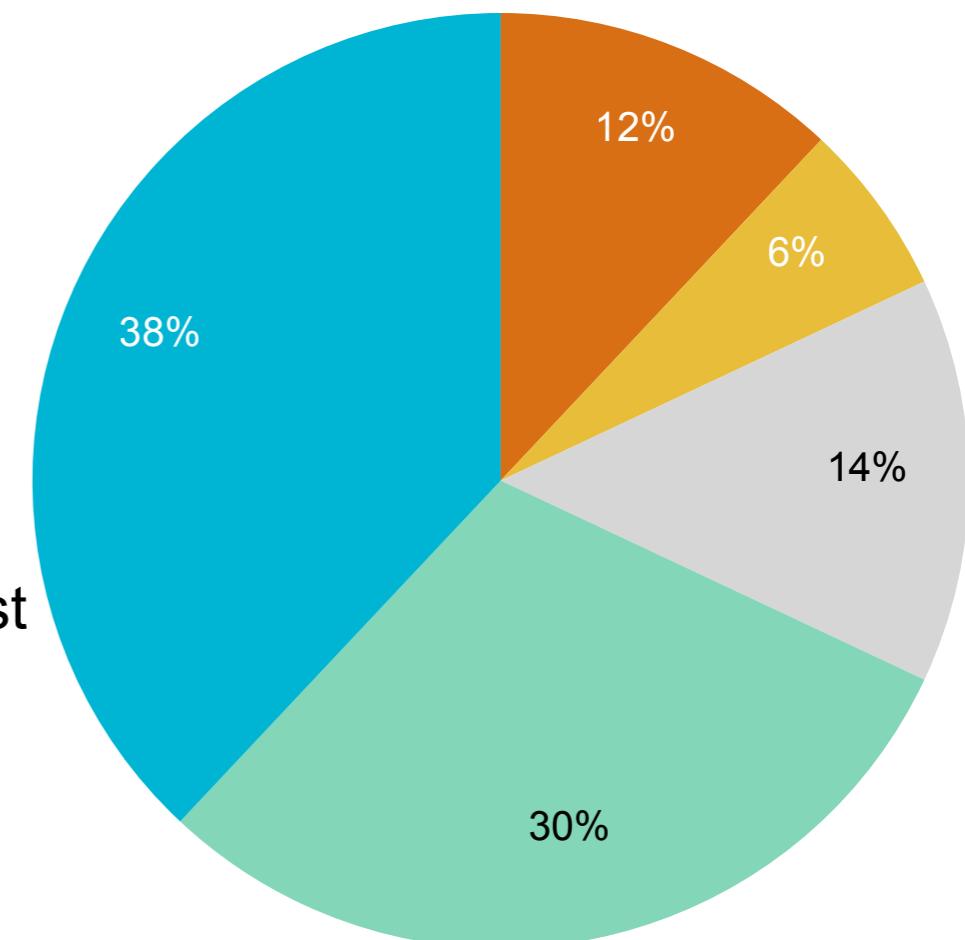
How do you fell about doing science?

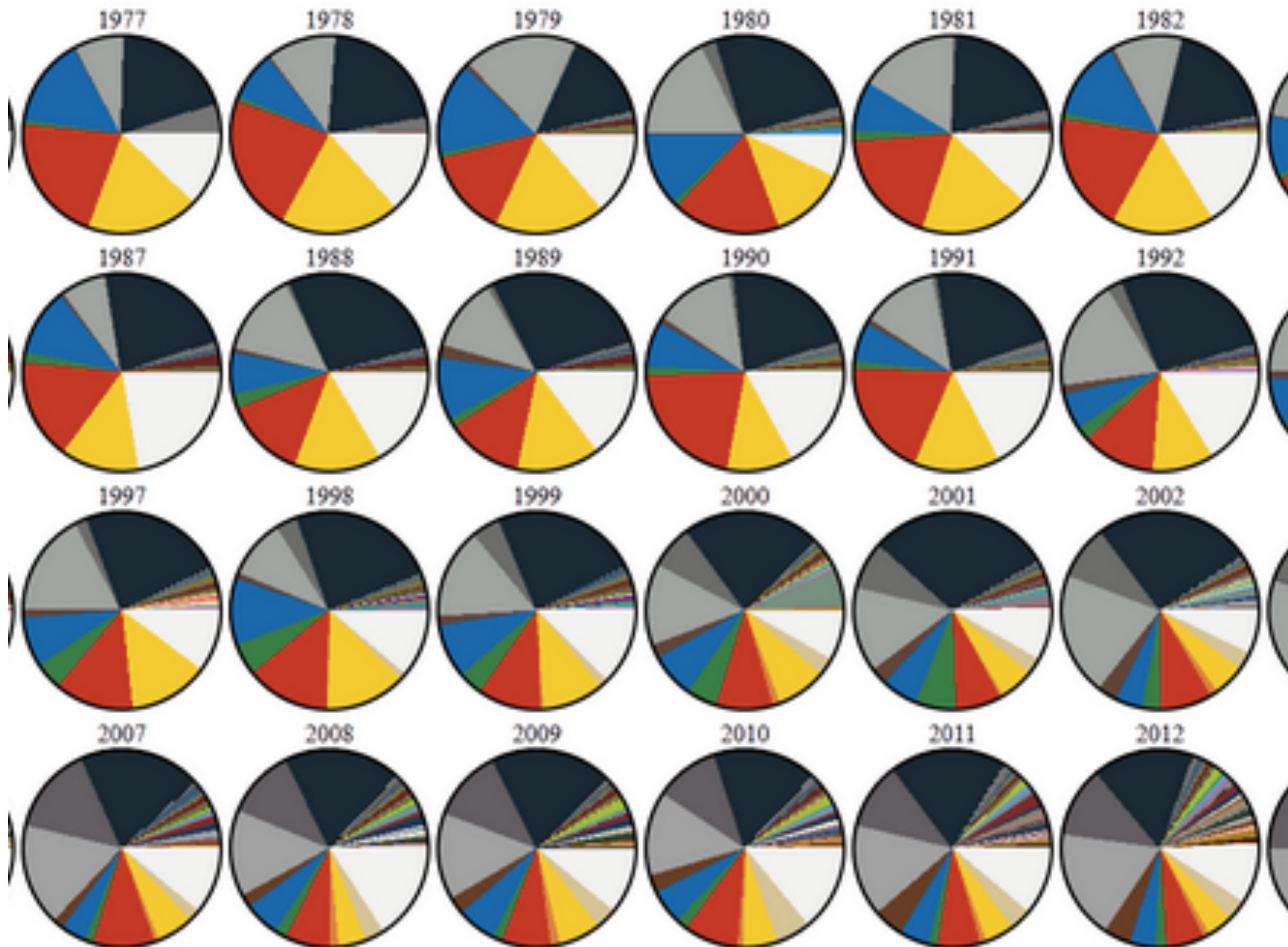
adopted from "Storytelling with data" by Cole Nussbaumer Knaflic

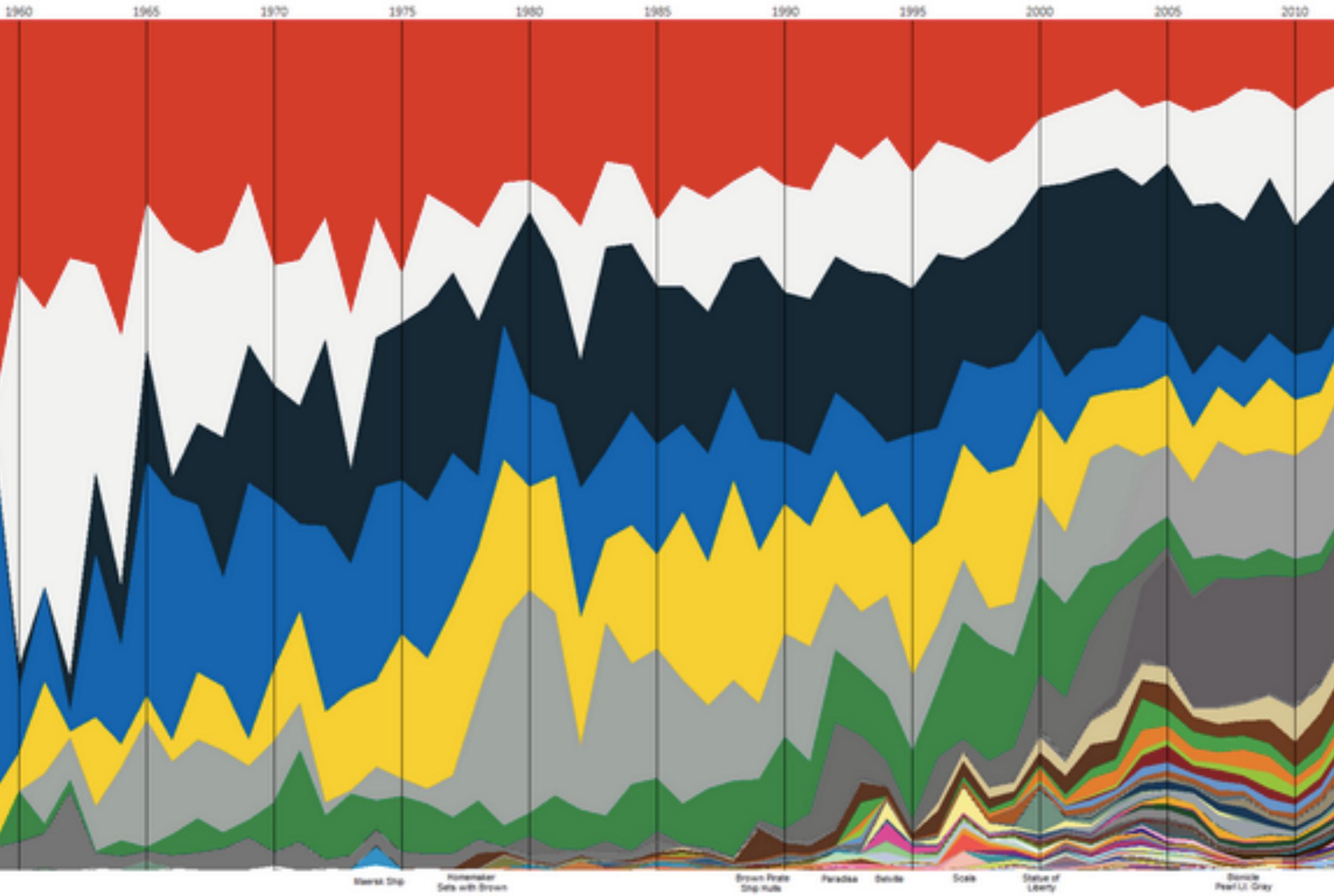


Legend:

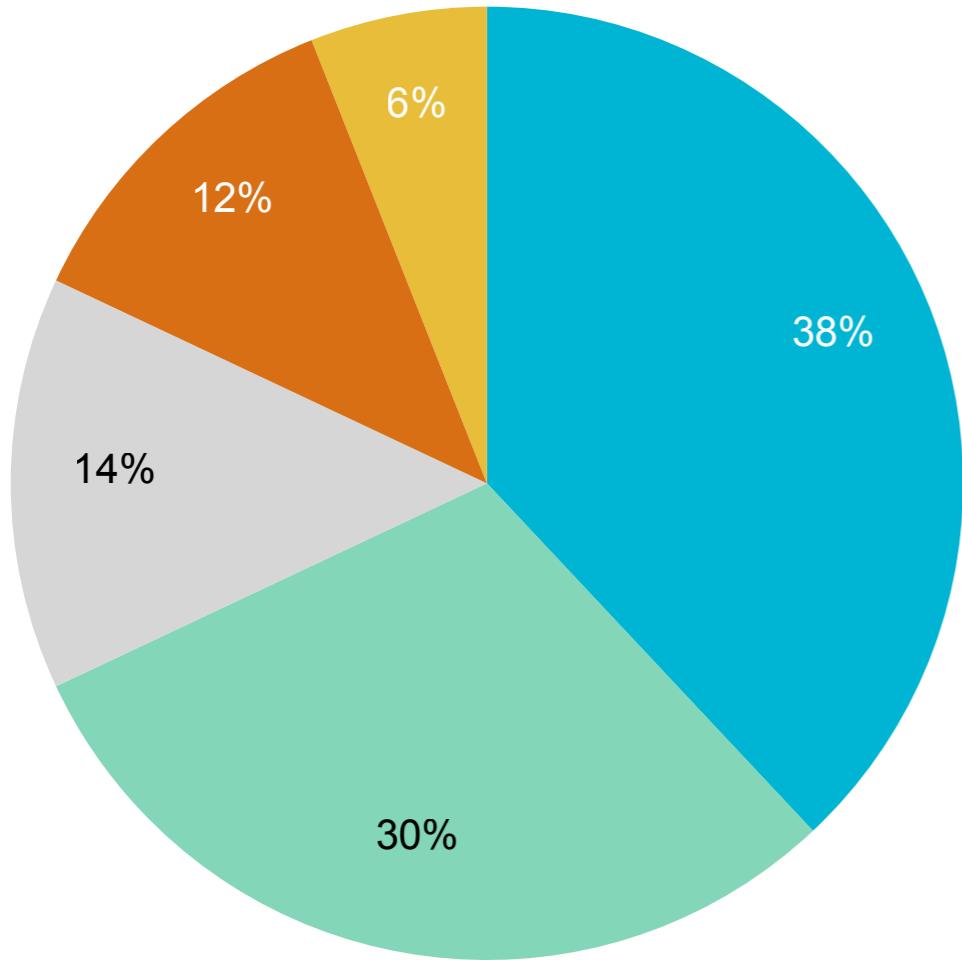
- Bored
- Not Great
- OK
- Kind of Interest
- Excited







圓餅圖要點

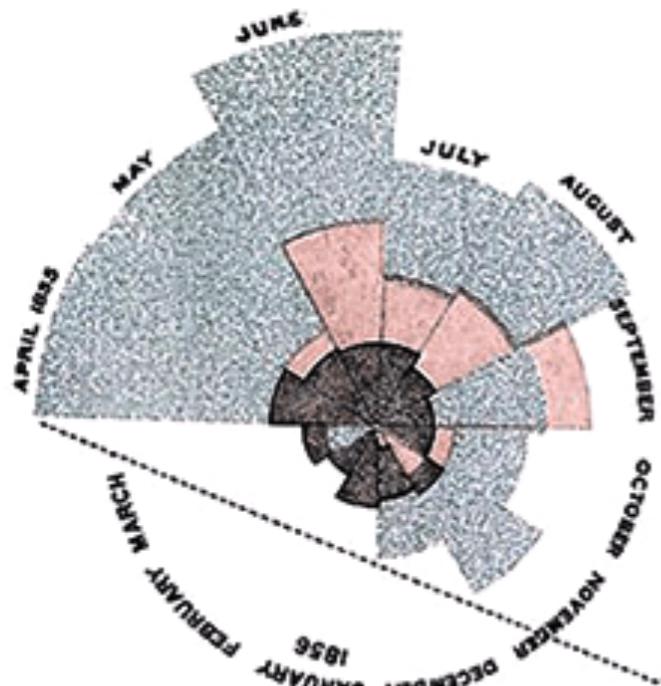


■ Bored ■ Not Great ■ OK
■ Kind of Interest ■ Excited

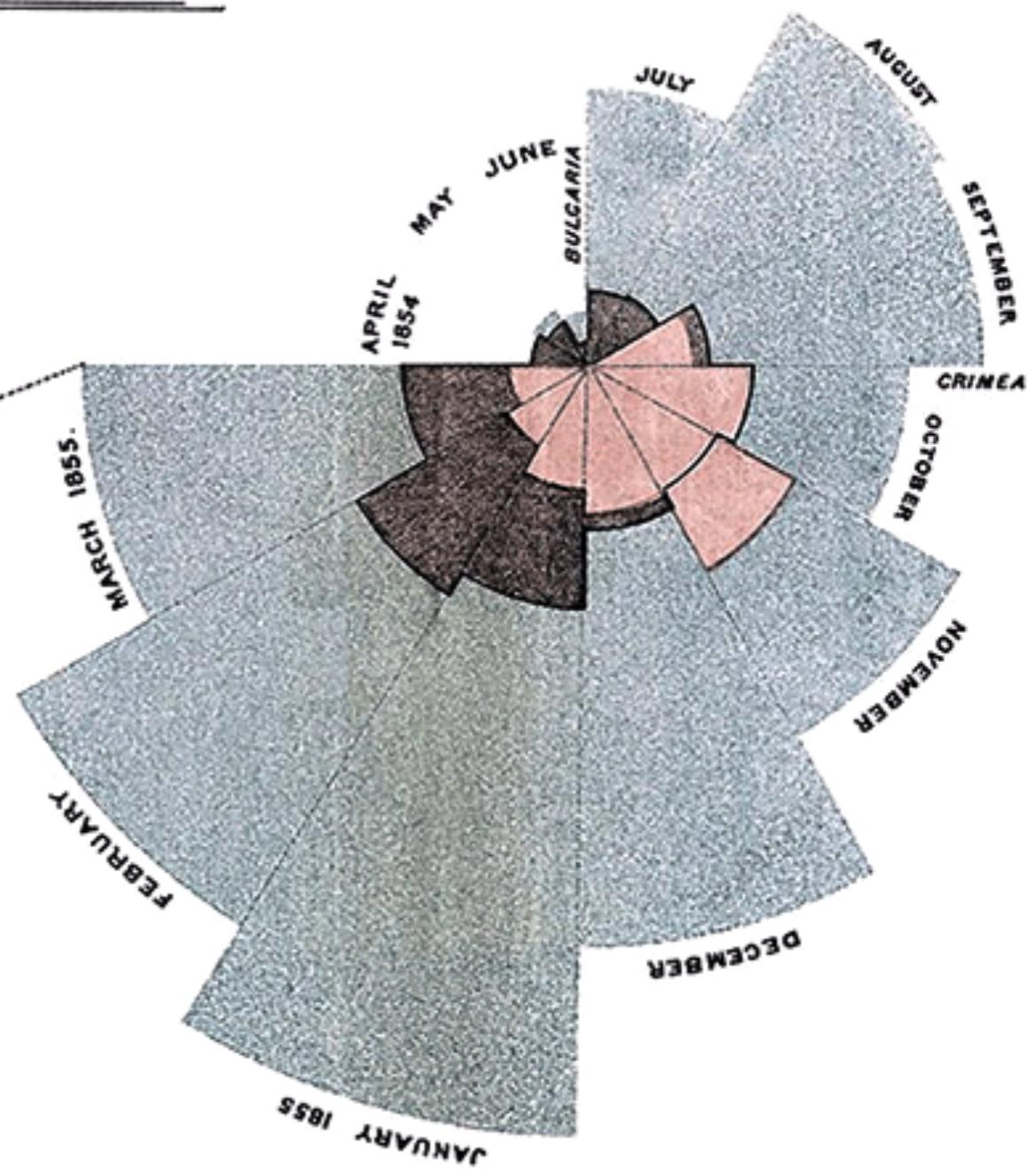
1. 表現整體與部份之比例
2. 總和為 100%
3. 從 12 點鐘方向開始
4. 順時針繞圓排序
5. 數量不宜多，2 ~ 7 為佳
6. 不適合跨圖表比較

DIAGRAM OF THE CAUSES OF MORTALITY
IN THE ARMY IN THE EAST.

2.
APRIL 1855 to MARCH 1856.



1.
APRIL 1854 to MARCH 1855.



The Areas of the blue, red, & black wedges are each measured from the centre as the common vertex.

The blue wedges measured from the centre of the circle represent area for area the deaths from Preventible or Mitigable Zymotic diseases, the red wedges measured from the centre the deaths from wounds, & the black wedges measured from the centre the deaths from all other causes.

The black line across the red triangle in Nov. 1854 marks the boundary of the deaths from all other causes during the month.

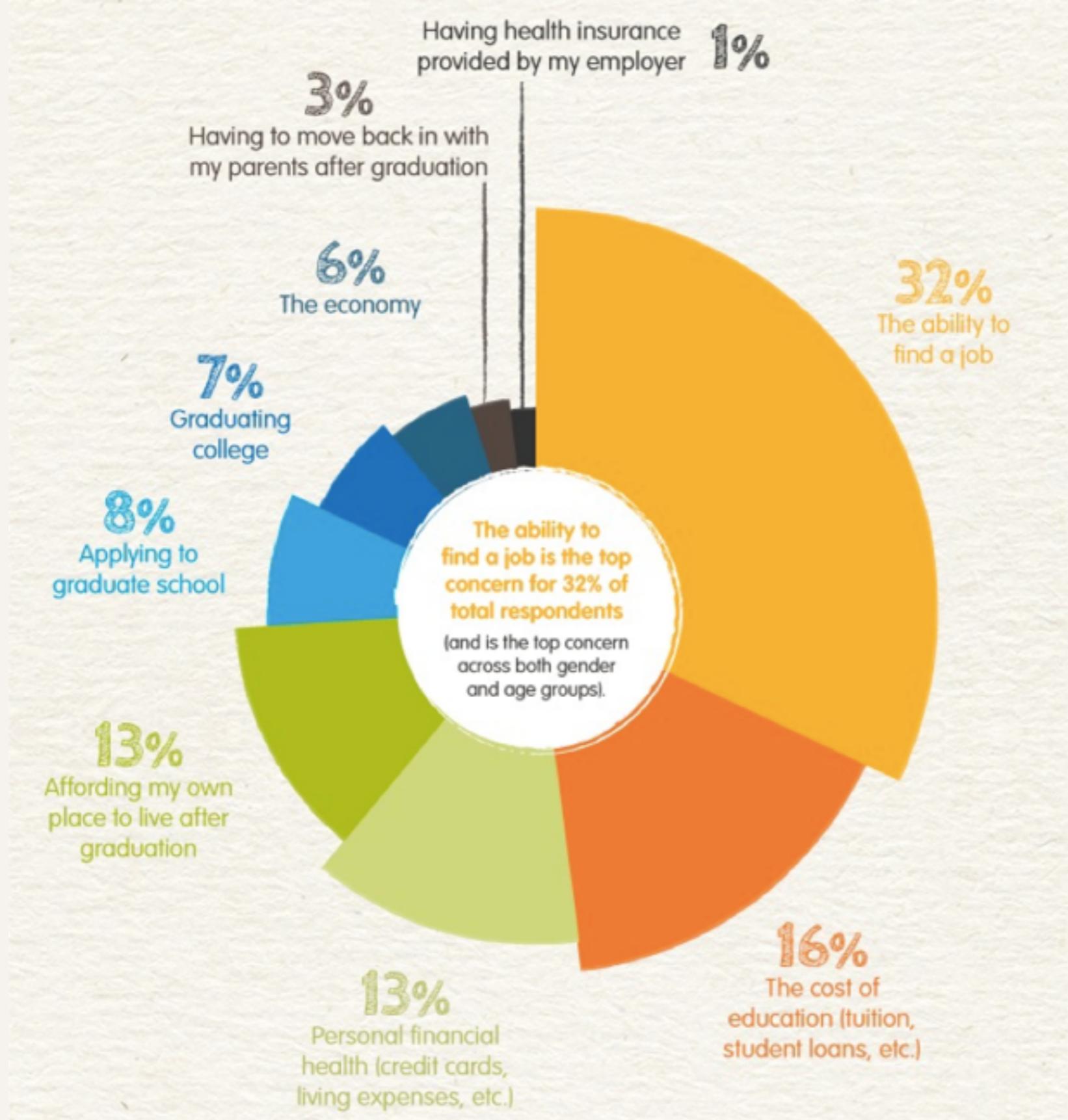
In October 1854, & April 1855, the black area coincides with the red; in January & February 1856, the blue coincides with the black.

The entire areas may be compared by following the blue, the red & the black lines enclosing them.

Cause of Mortality

in Hospital of Crimean War, 1854 ~ 1856, by Nightingale Florence

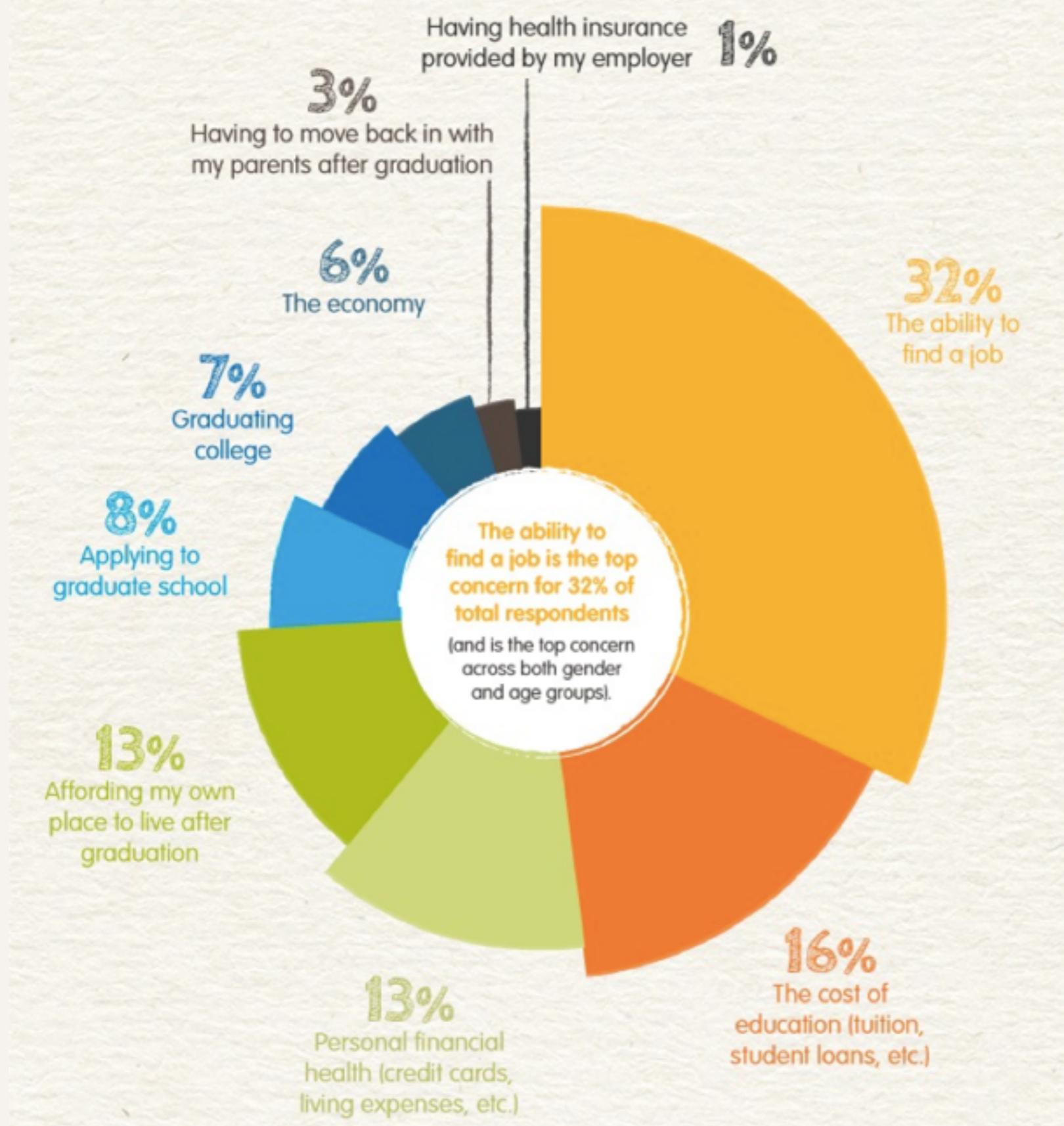
	infected
	wounded
	other



What are their concerns for the future?

for Gen Z and millennials

<http://www.americaninfographic.com/post/121773506453/infographic-gen-z-millennials>



$$\frac{\text{rad}}{2\pi} \times \pi r^2$$

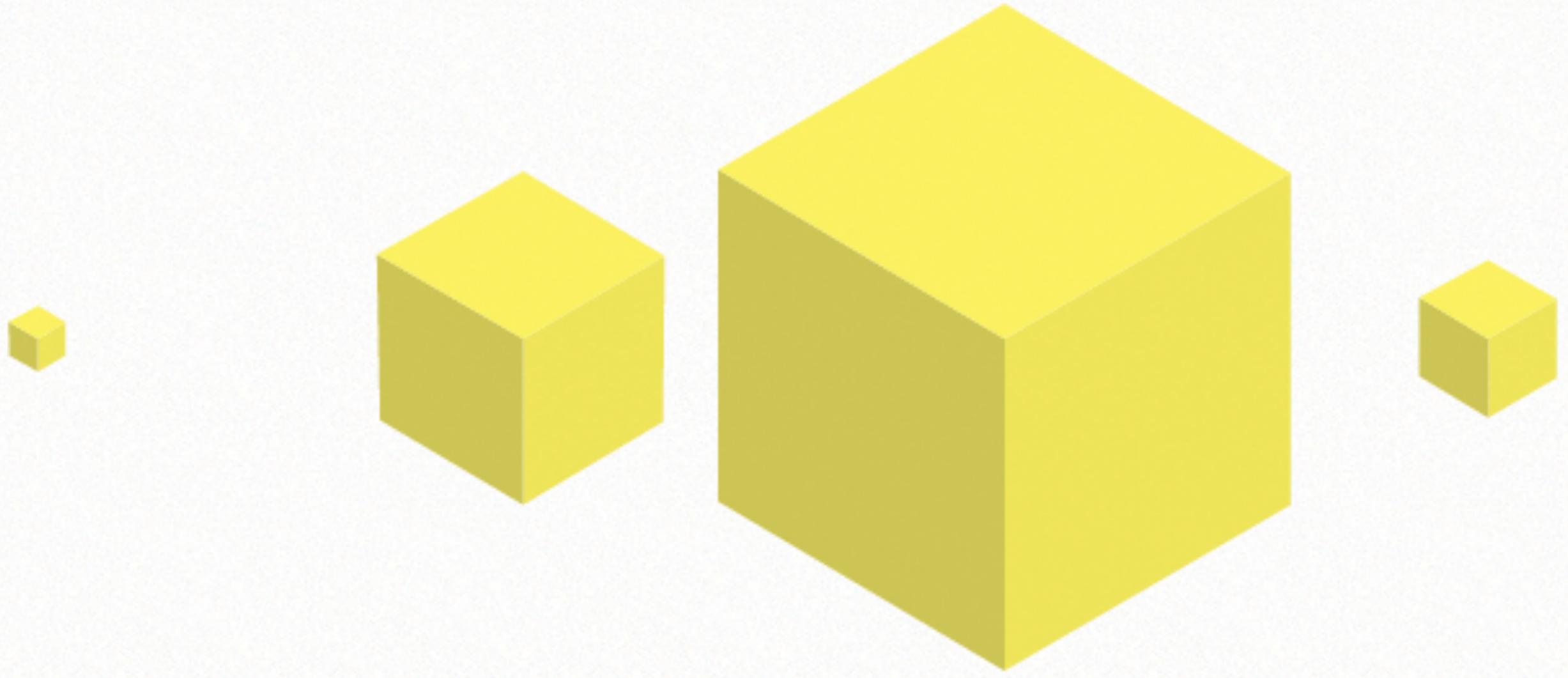
Ratio of Area:

$$\frac{\text{rad}_a \times r_a^2}{\text{rad}_b \times r_b^2}$$

What are their concerns for the future?

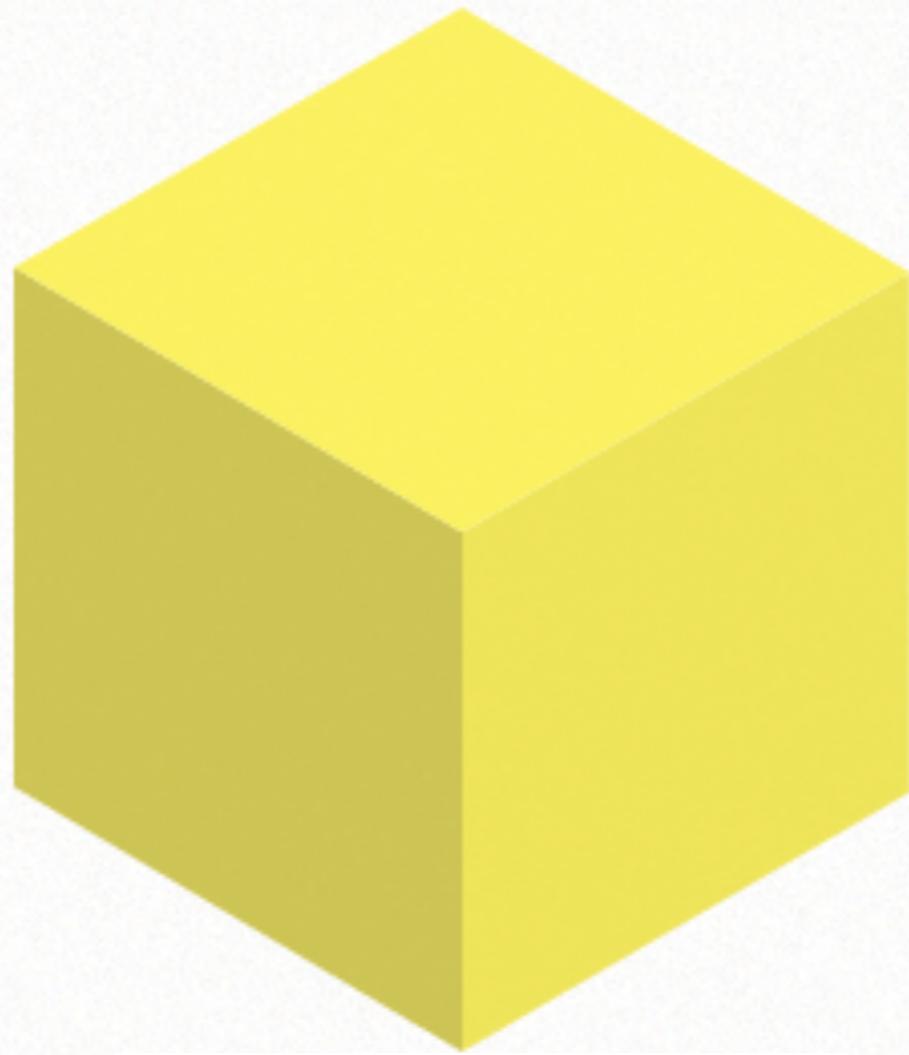
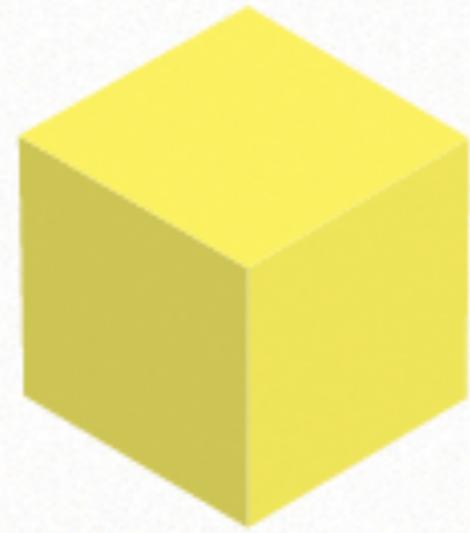
for Gen Z and millennials

<http://www.americaninfographic.com/post/121773506453/infographic-gen-z-millennials>



Responsive Report 2014

<http://2014.report.gridsetapp.com>



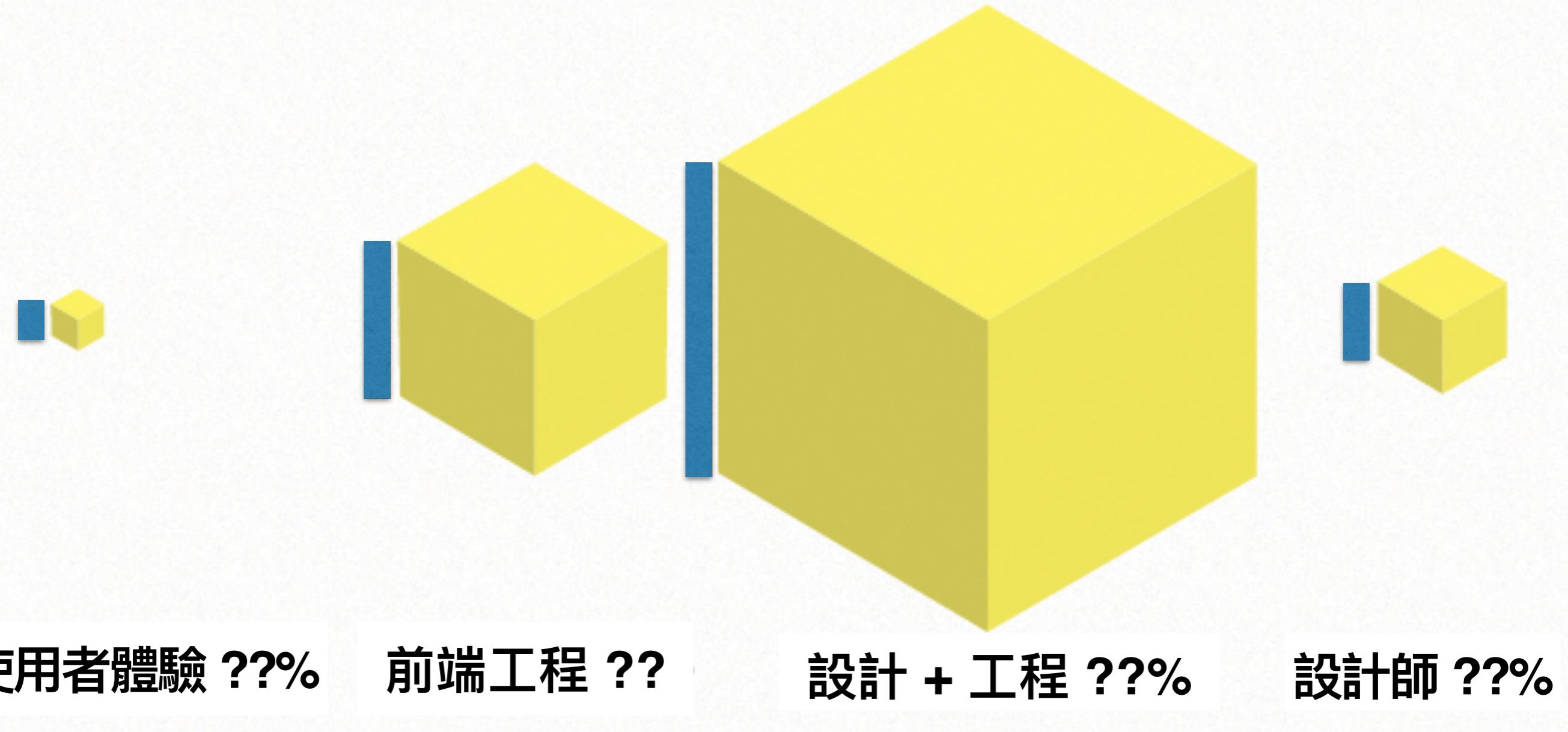
使用者體驗 ??%

前端工程 ??

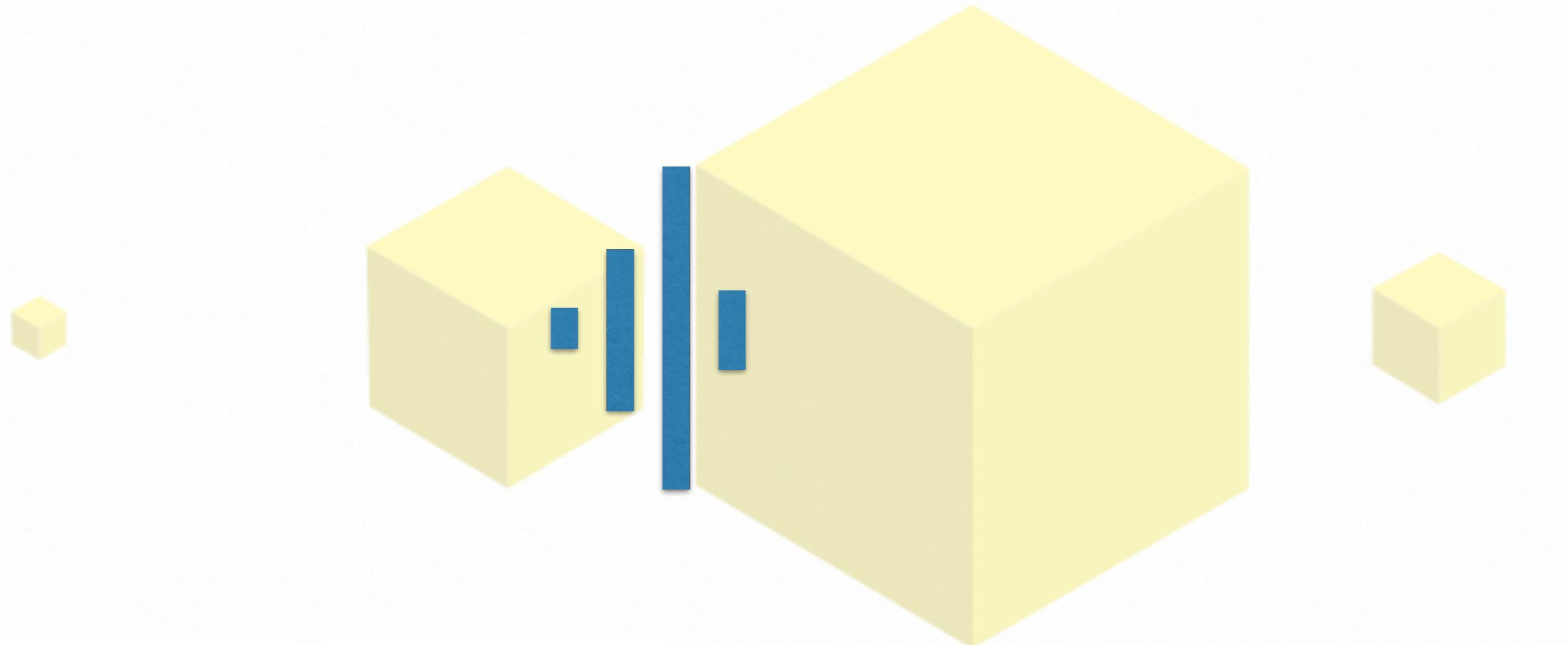
設計 + 工程 ??%

設計師 ??%

單邊邊長



單邊邊長



使用者體驗 ??%

前端工程 ??

設計 + 工程 ??%

設計師 ??%

單邊邊長



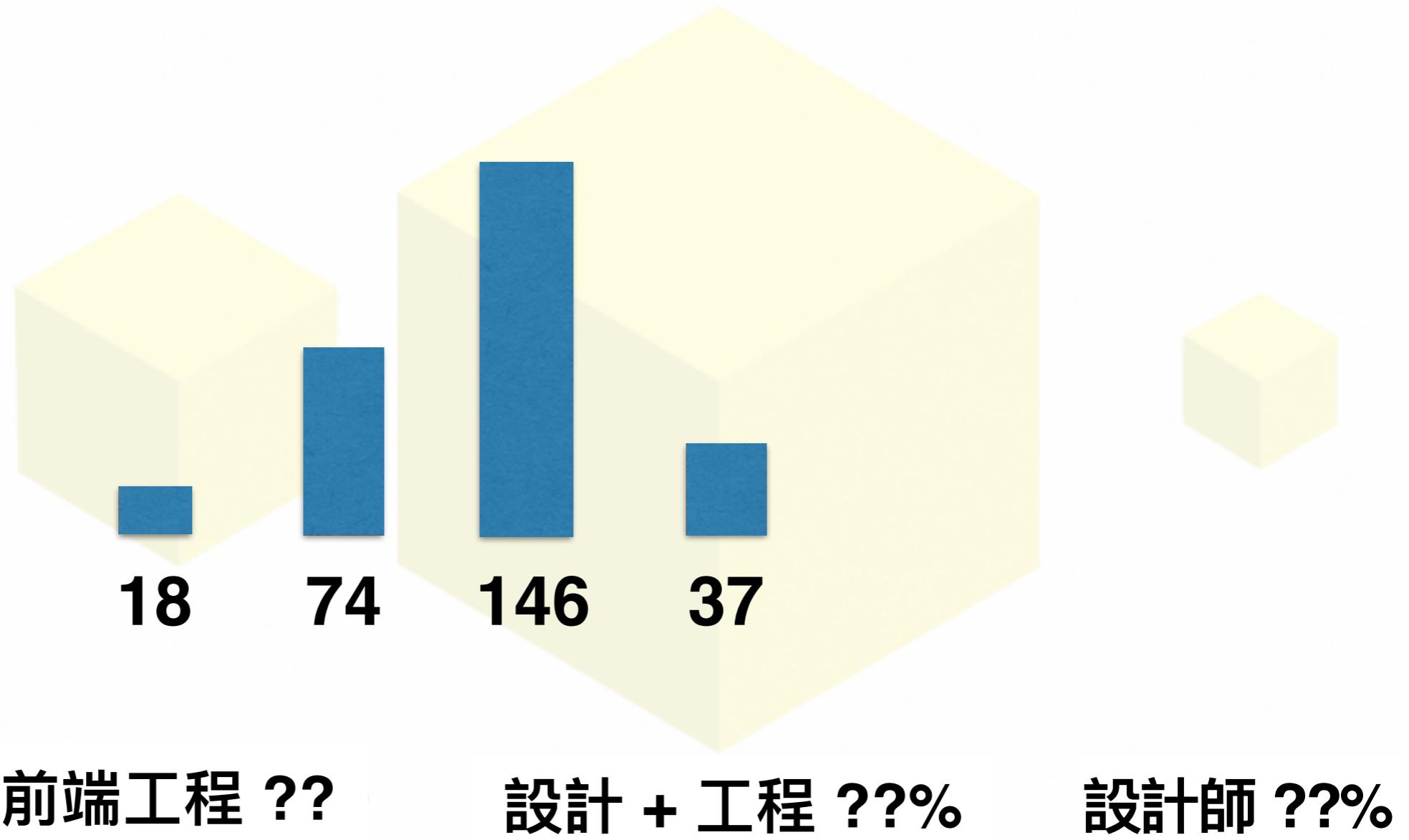
使用者體驗 ??%

前端工程 ??

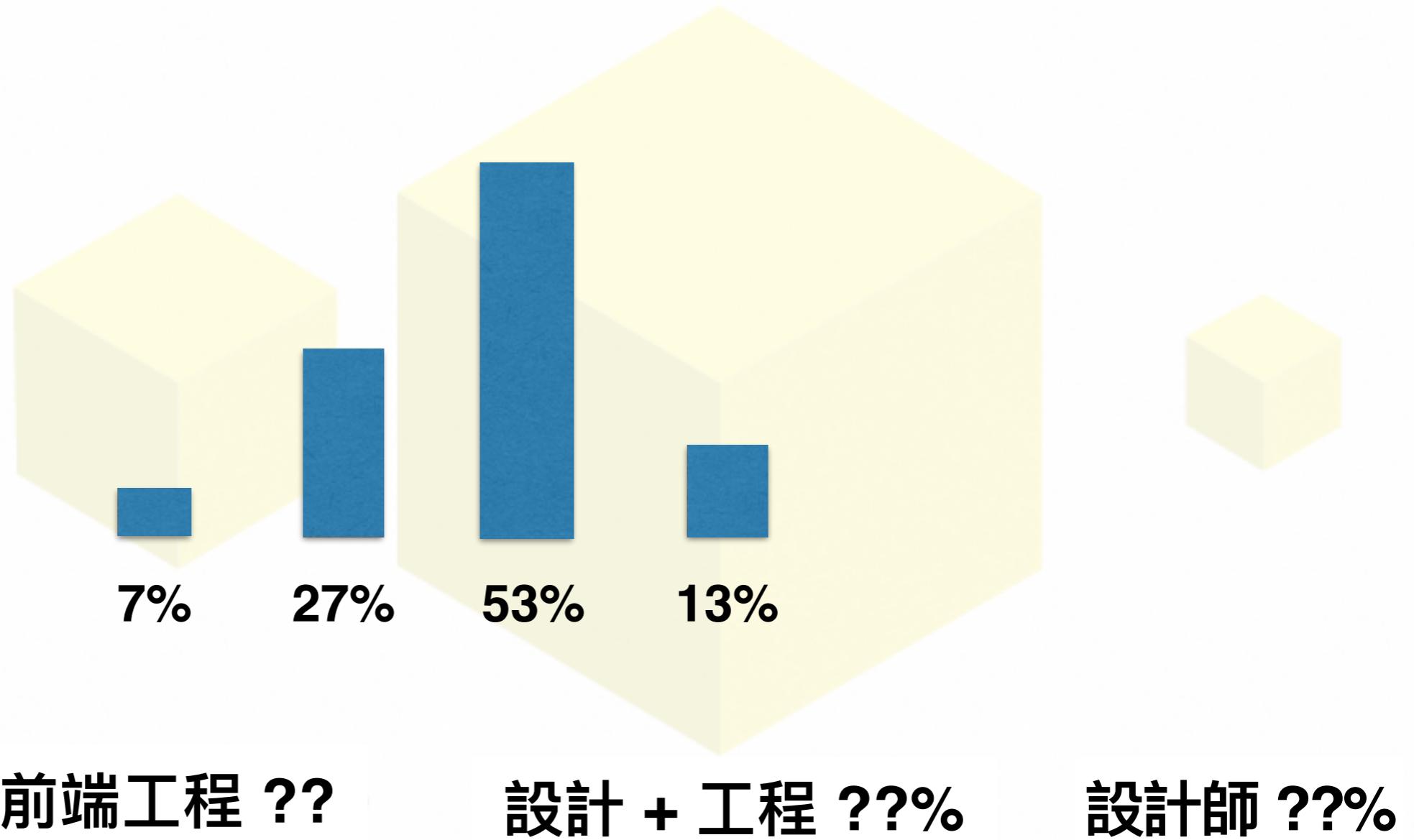
設計 + 工程 ??%

設計師 ??%

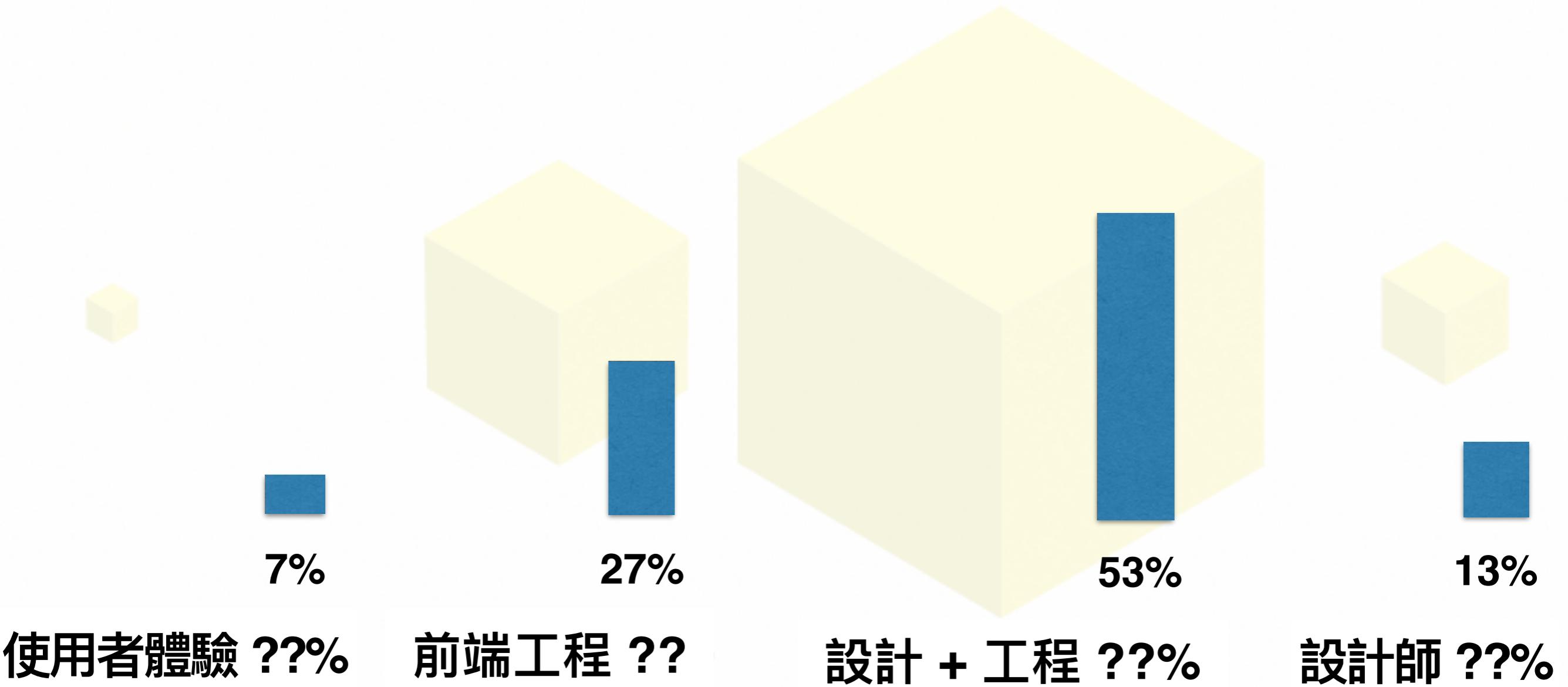
單邊邊長 - 實際像素量



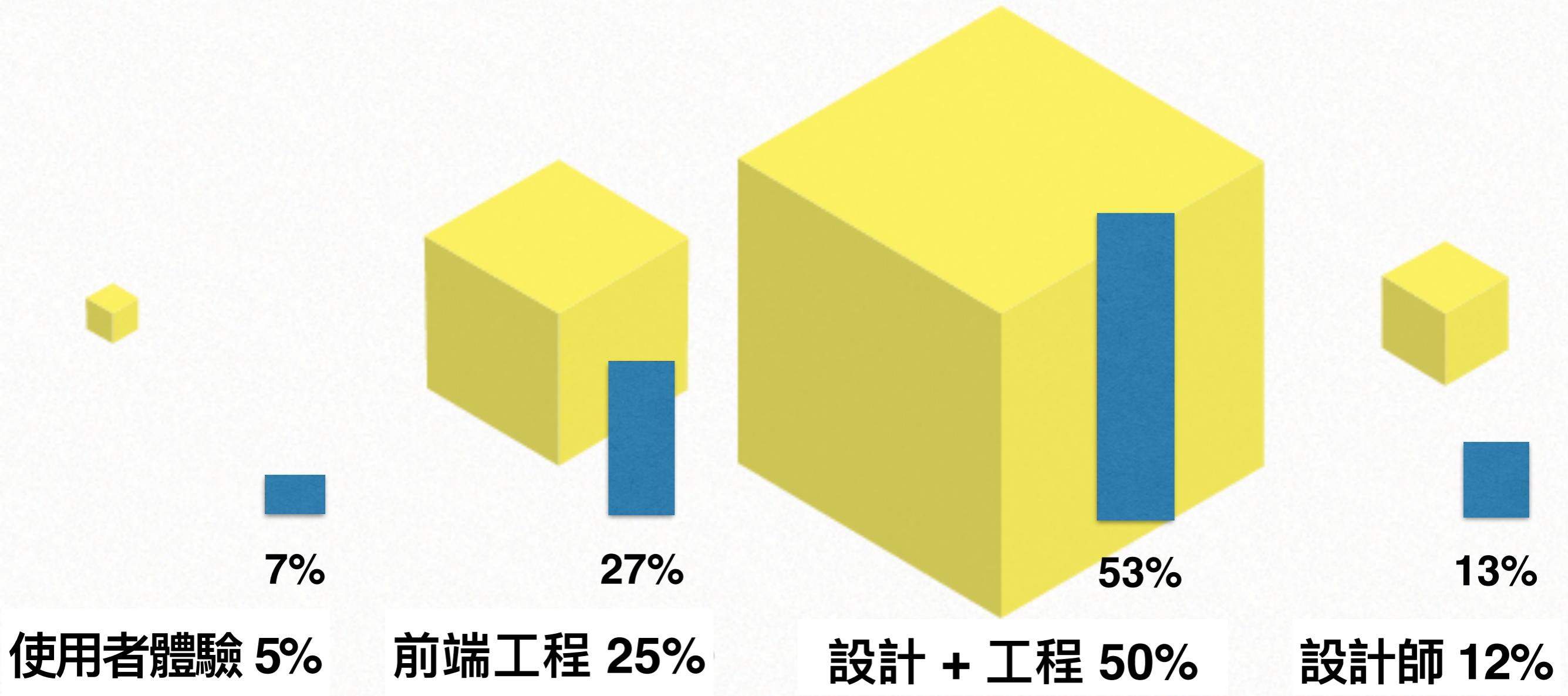
單邊邊長 - 長度比例



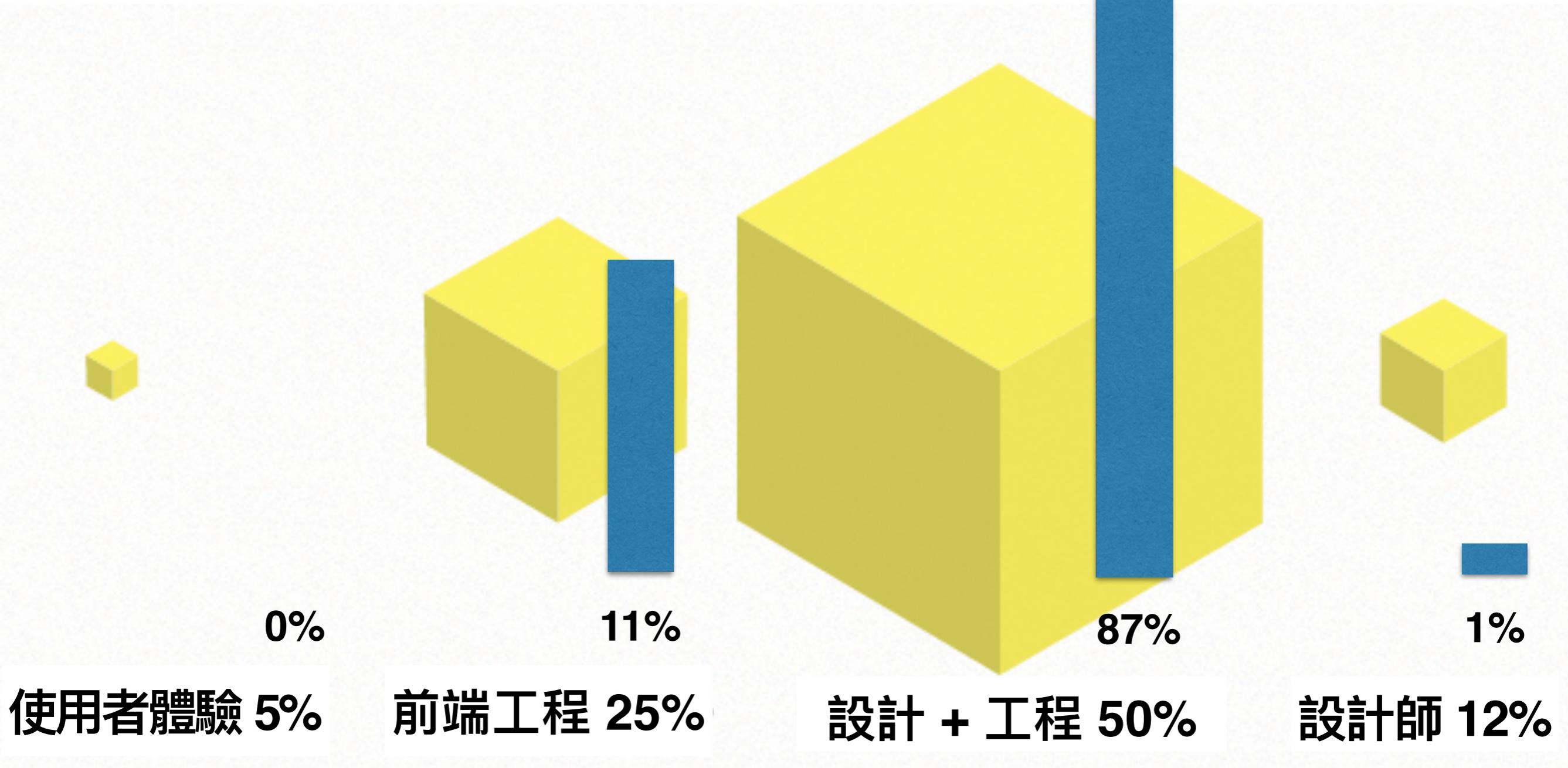
單邊邊長 - 長度比例 vs 答案



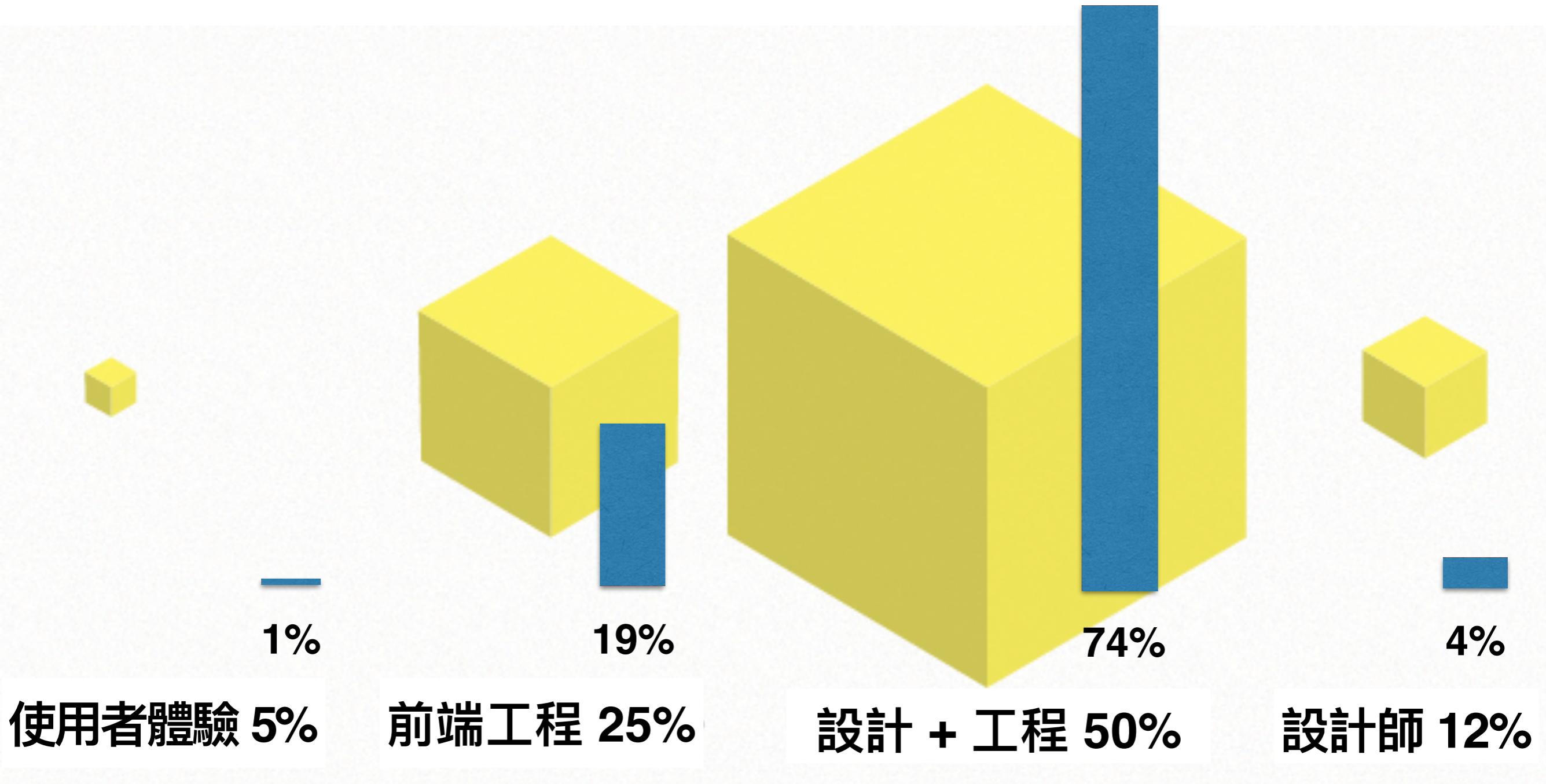
單邊邊長 - 長度比例 vs 答案



體積比例



面積比例



50% Hybrid designer/developer

Freelance

Small agency

25% Front-end developer

Medium agency

12% Designer

Large agency

5% UX designer

Small org

Medium org

1% Business manager

Large org

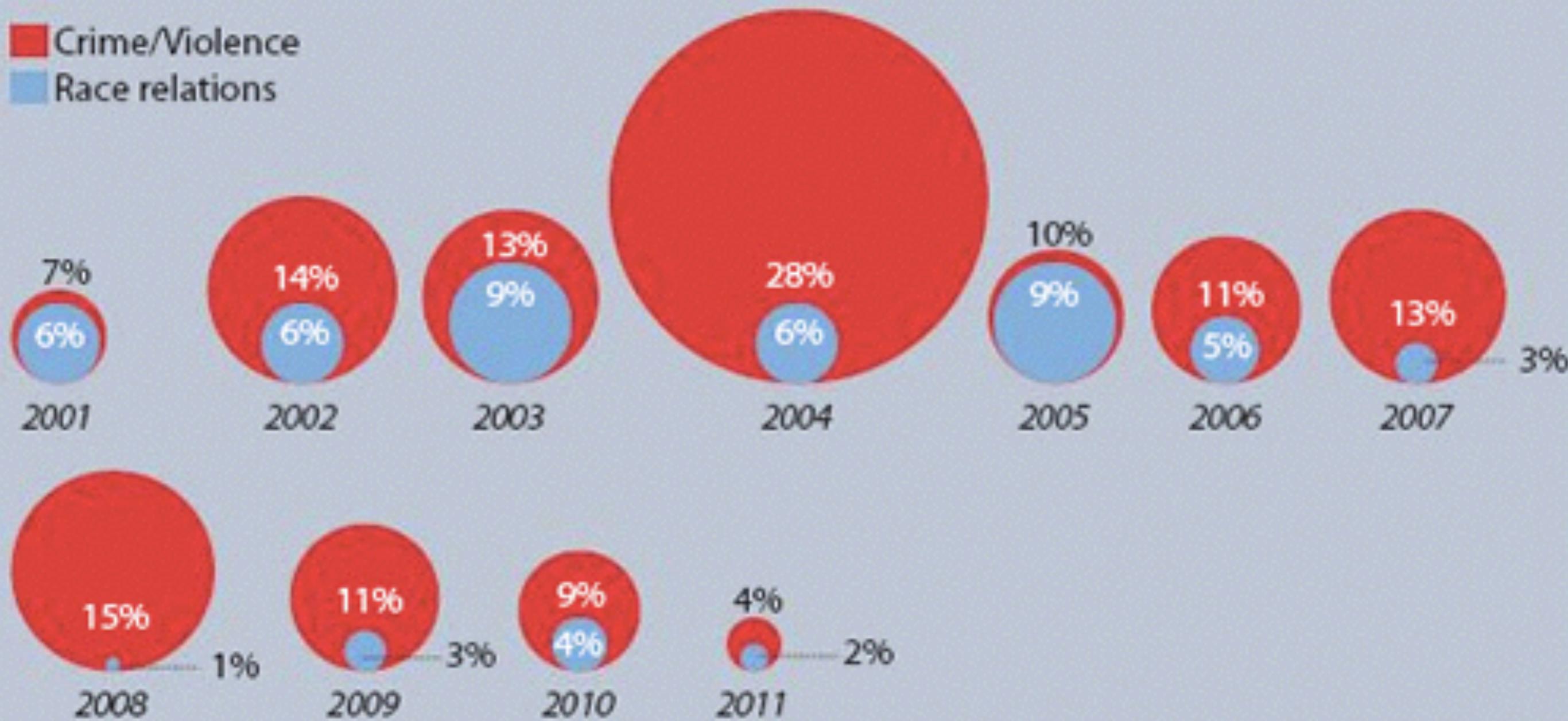
1% Project manager

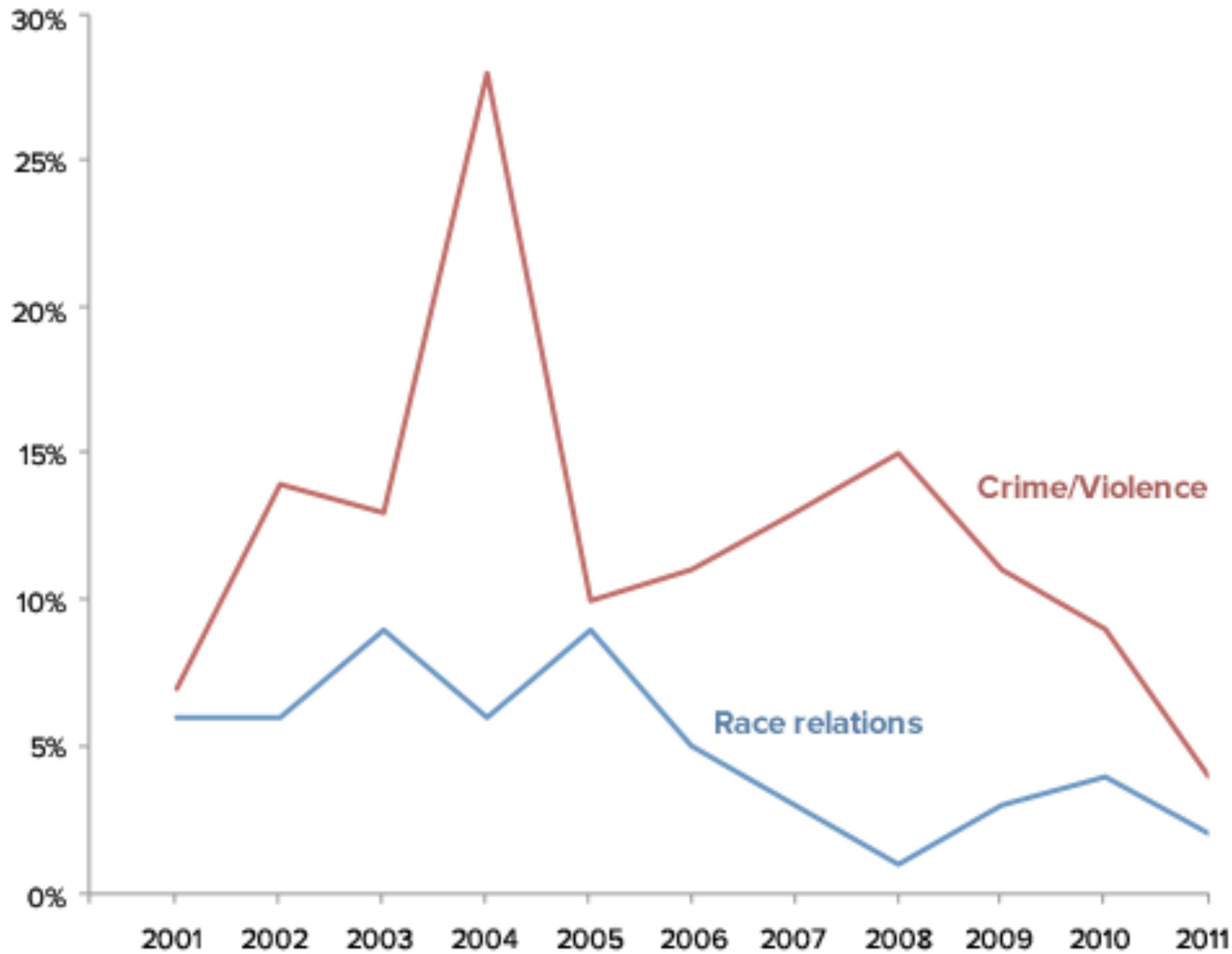
Responsive Report / Mobile Version

Most important issues

What do you think is the most important problem facing New Zealand today?

Crime/Violence
Race relations





Default 政事別 主管單位

新增 +25% +10% +2% +0% -2% -10% -25%

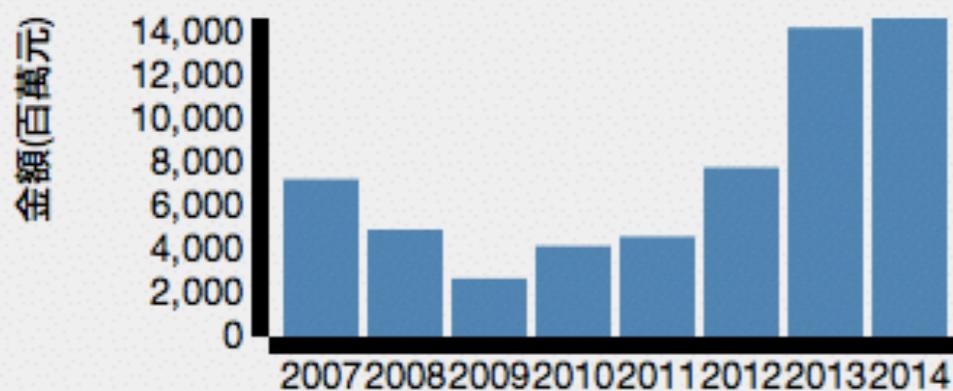
圖例

i 臺灣鐵路管理局(交通部/營業基金)

147億元(+3.04%)

(即為4億份營養午餐(回扣))

連結到此項 :<http://budget.g0v.tw/budget/6029018020>



例如: 林益世

標記相關人士

林益世 工研院

透過按一下表達你對於此預算的看法！

6人



1人



8人



3人

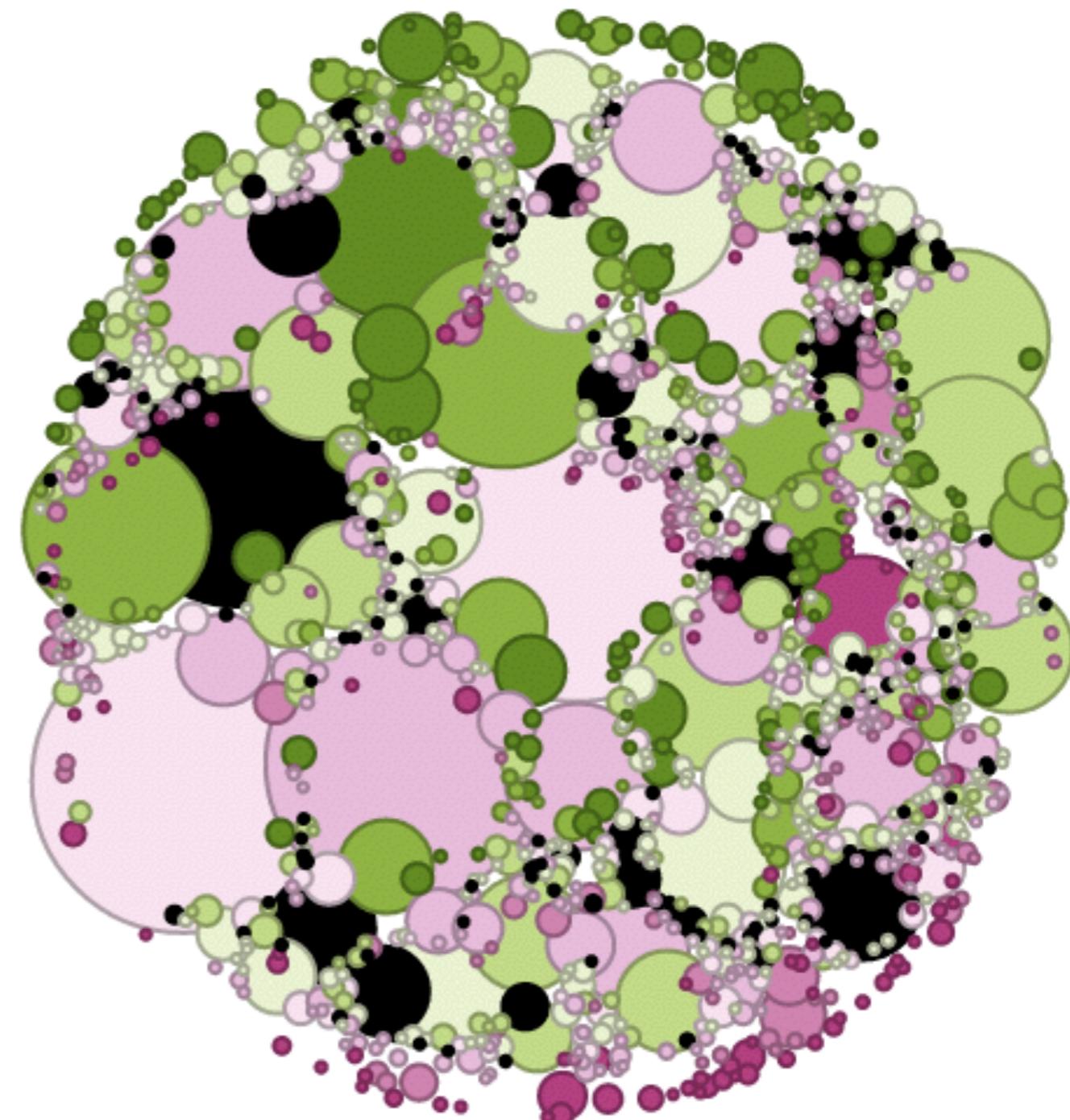


希望追加

表示不懂

建議減少

要求刪除



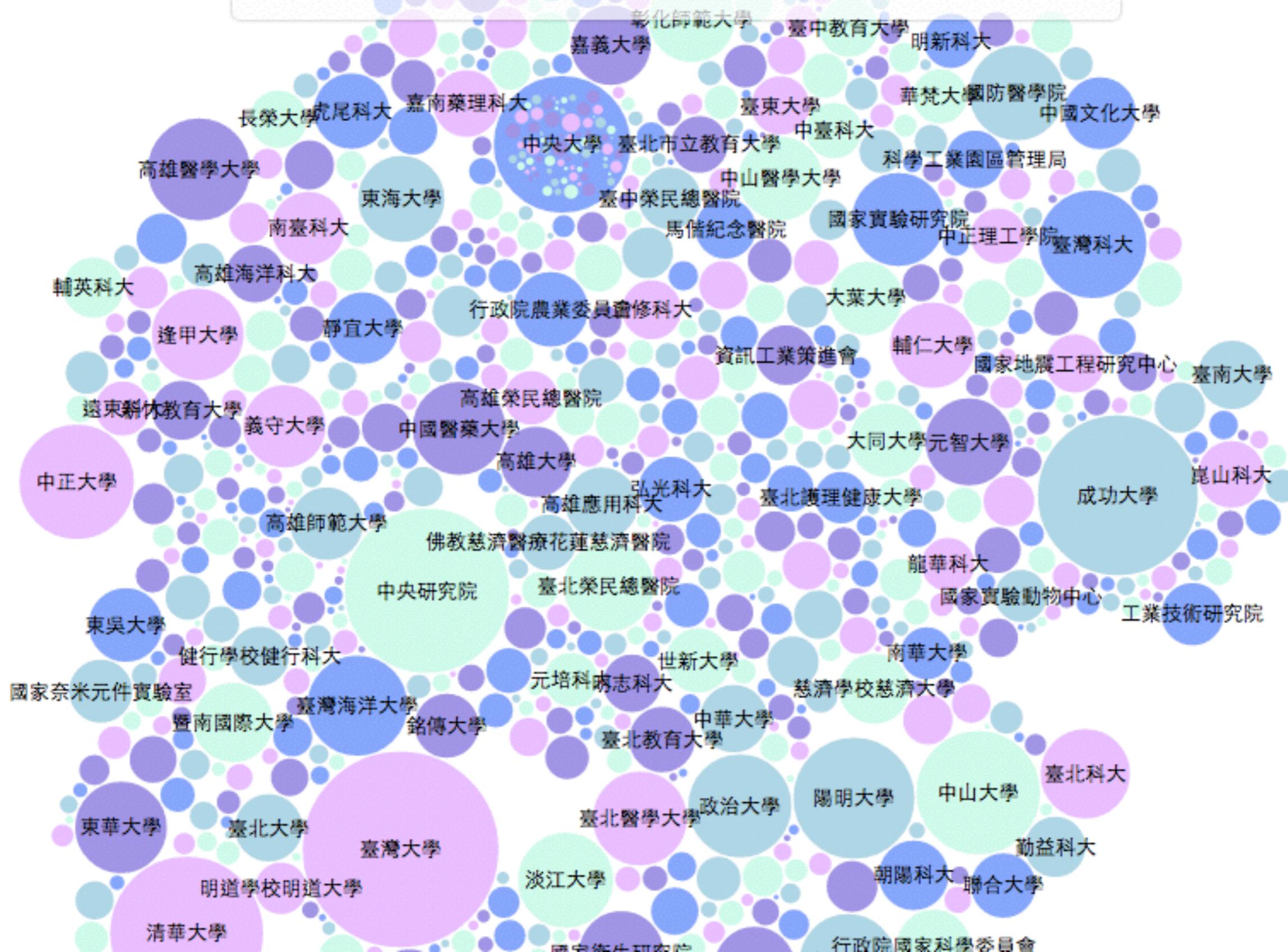
國科會計畫補助金額 - 哪所學校領了最多錢？

中央大學客家語文研究所

萬能學校萬能科大

我要找單位

宜蘭大學

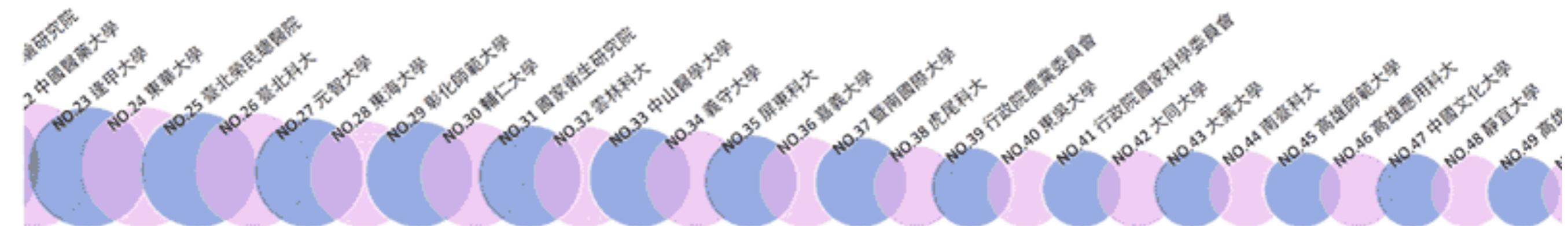


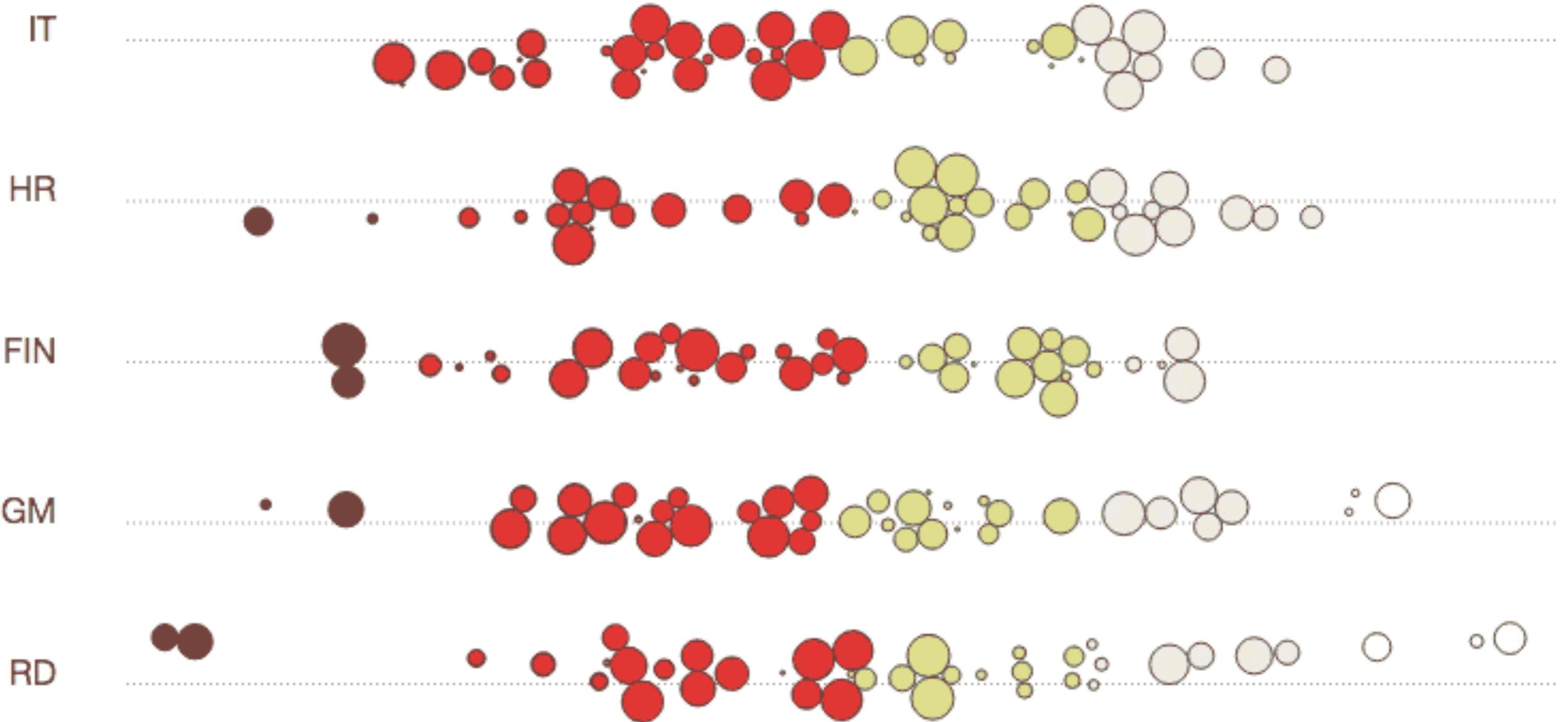
你的學校還在排隊申請國科會嗎？

«

»

展開
收合





X 軸 – 得分

Y 軸 – 部門

顏色 – 分組

半徑 – 薪資

5:53am

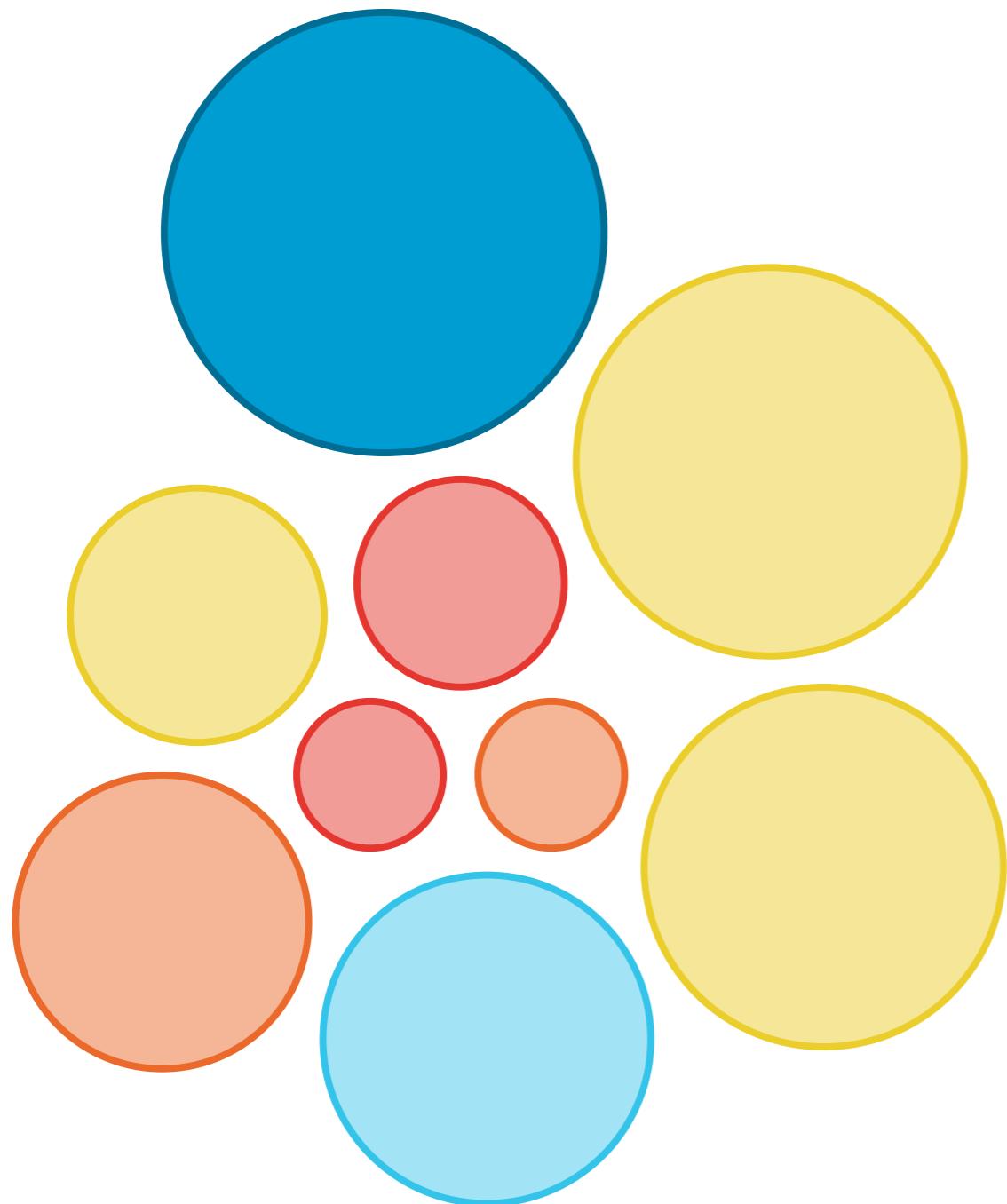
SLOW MEDIUM **FAST**

Most people are still sleeping this early in the morning, but some are already at work or preparing for the day.

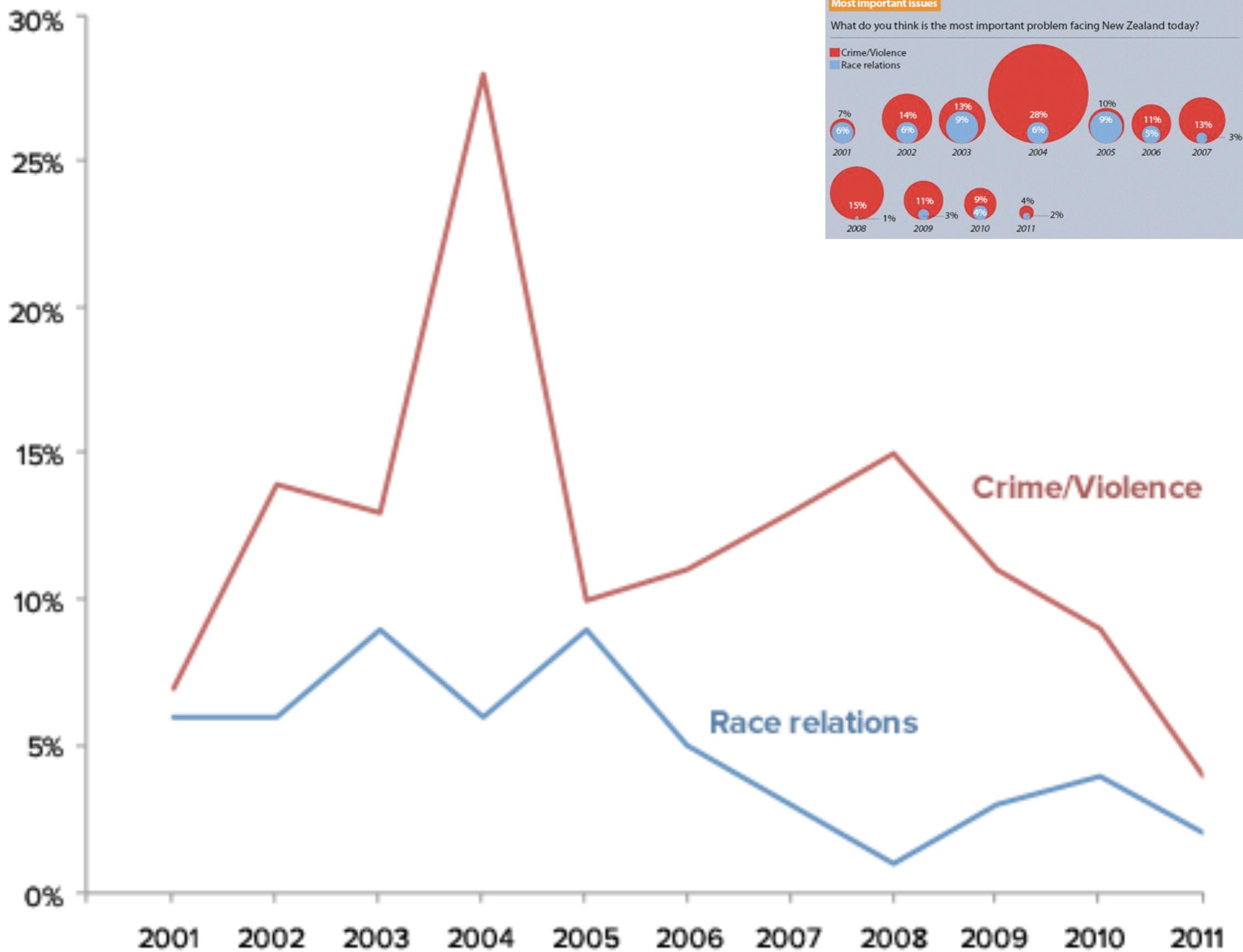


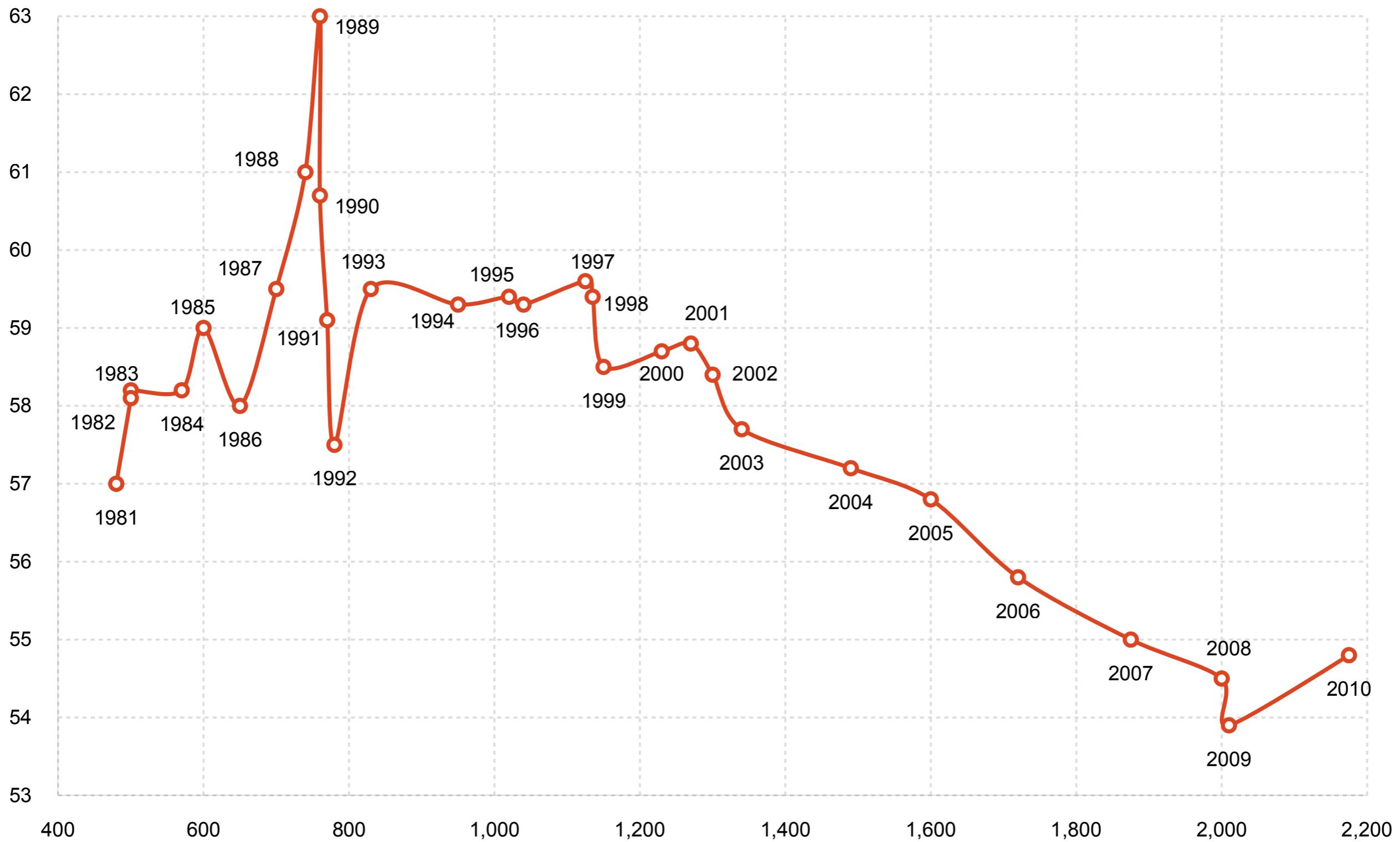
This is a simulation of 1,000 people's average day. It's based on 2014 data from the American Time Use Survey, made way more accessible by the ATUS Extract Builder.

面積圖要點



1. 概略表現資料
2. 適合相對性的比較
3. 數值與面積成正比
4. 避免圓以外的形狀
5. 避免用體積表現數值

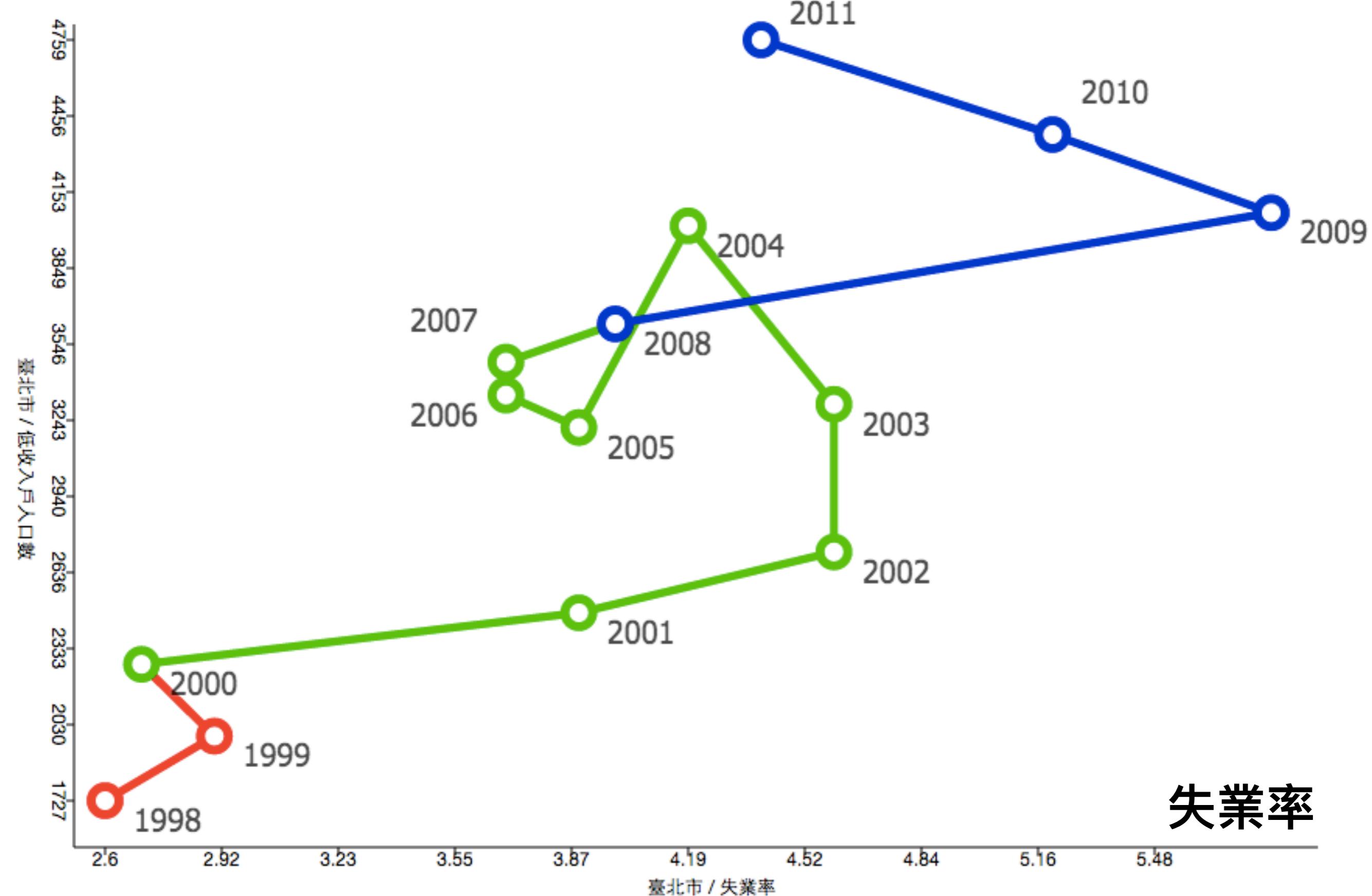




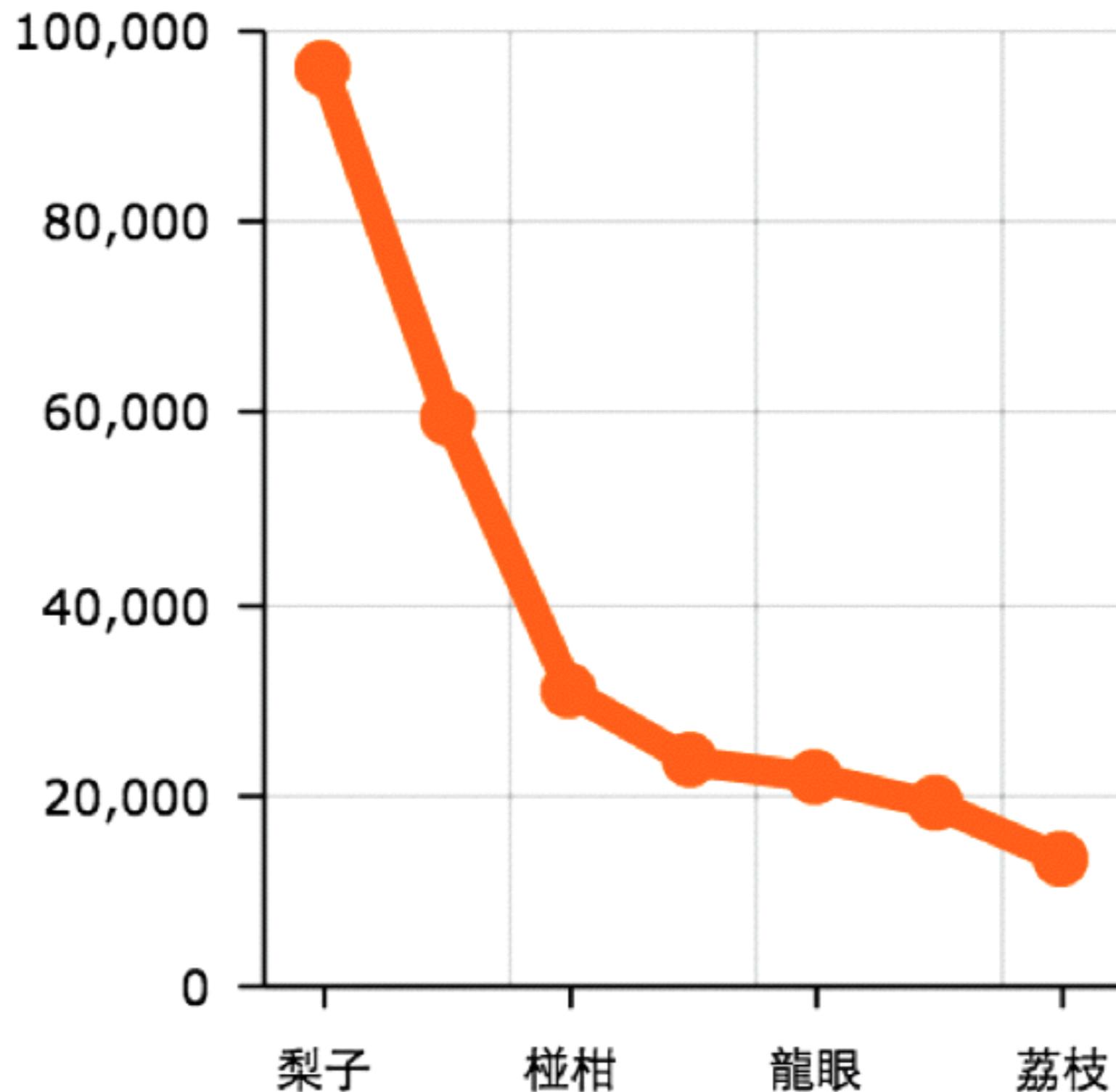
Covariation of inequality and economic growth

Epoca Magazine (remade); data adopted from Functional Art

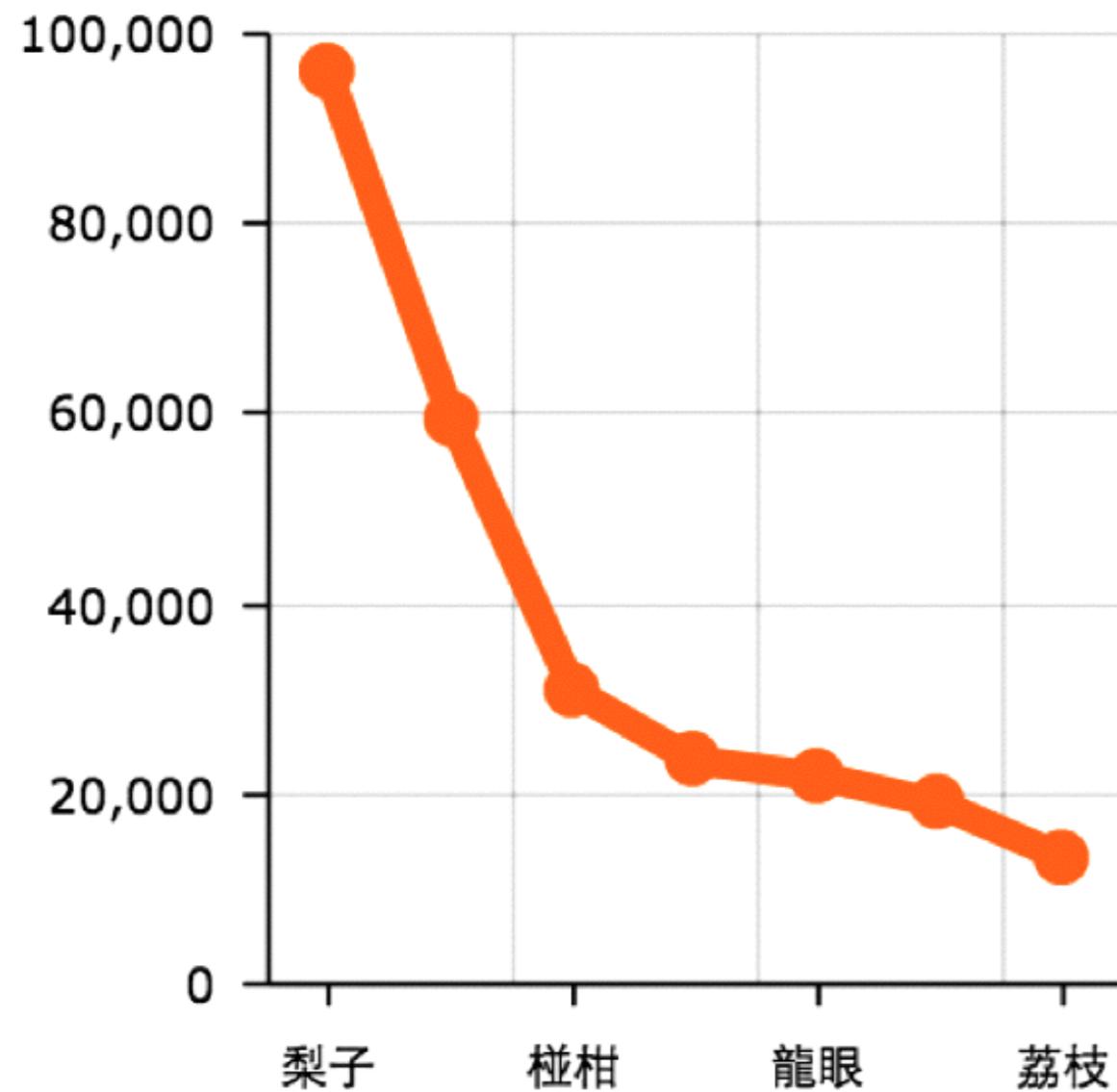
低收入戶數



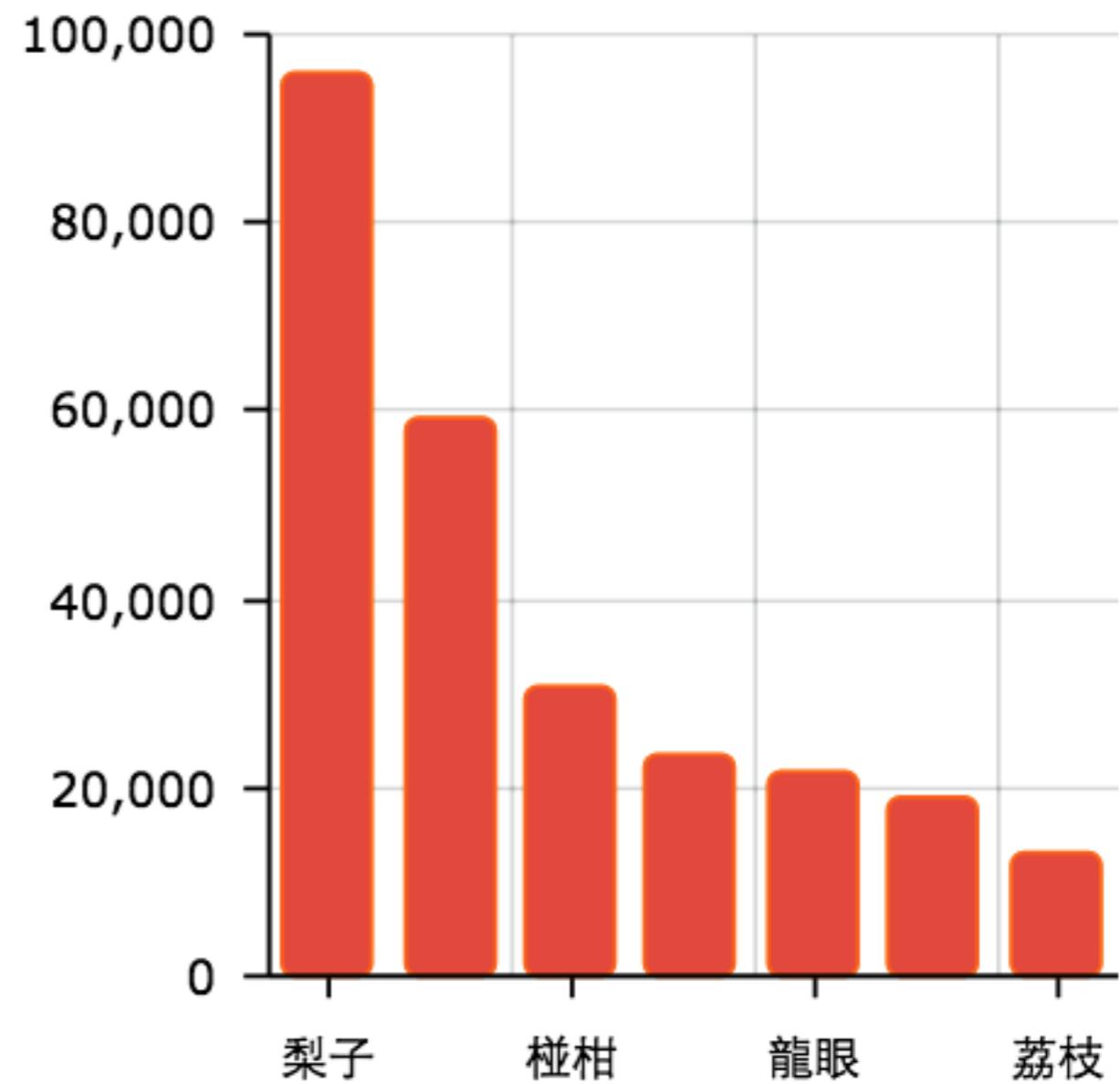
台中市101年度水果產量



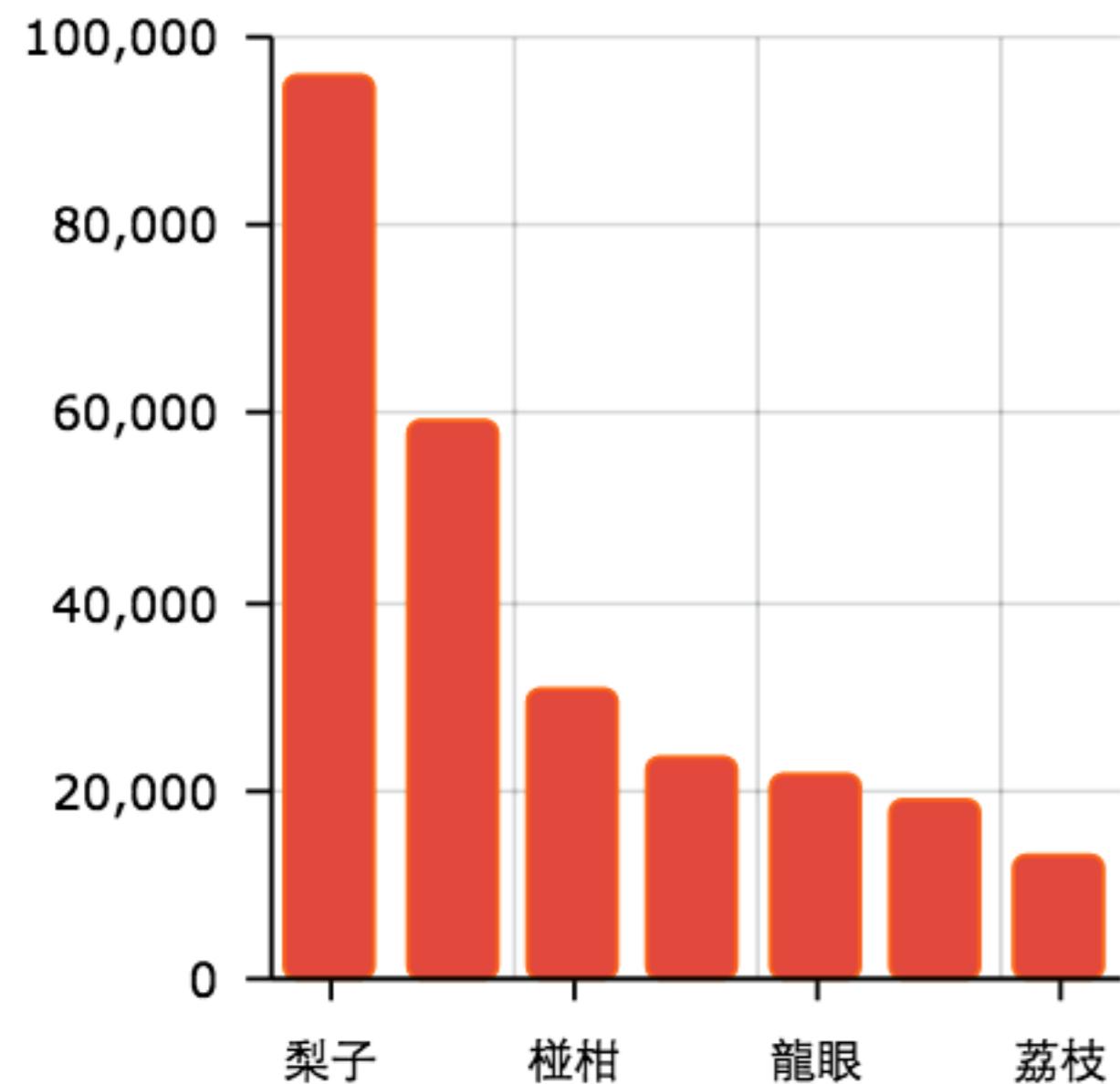
台中市**101**年度水果產量



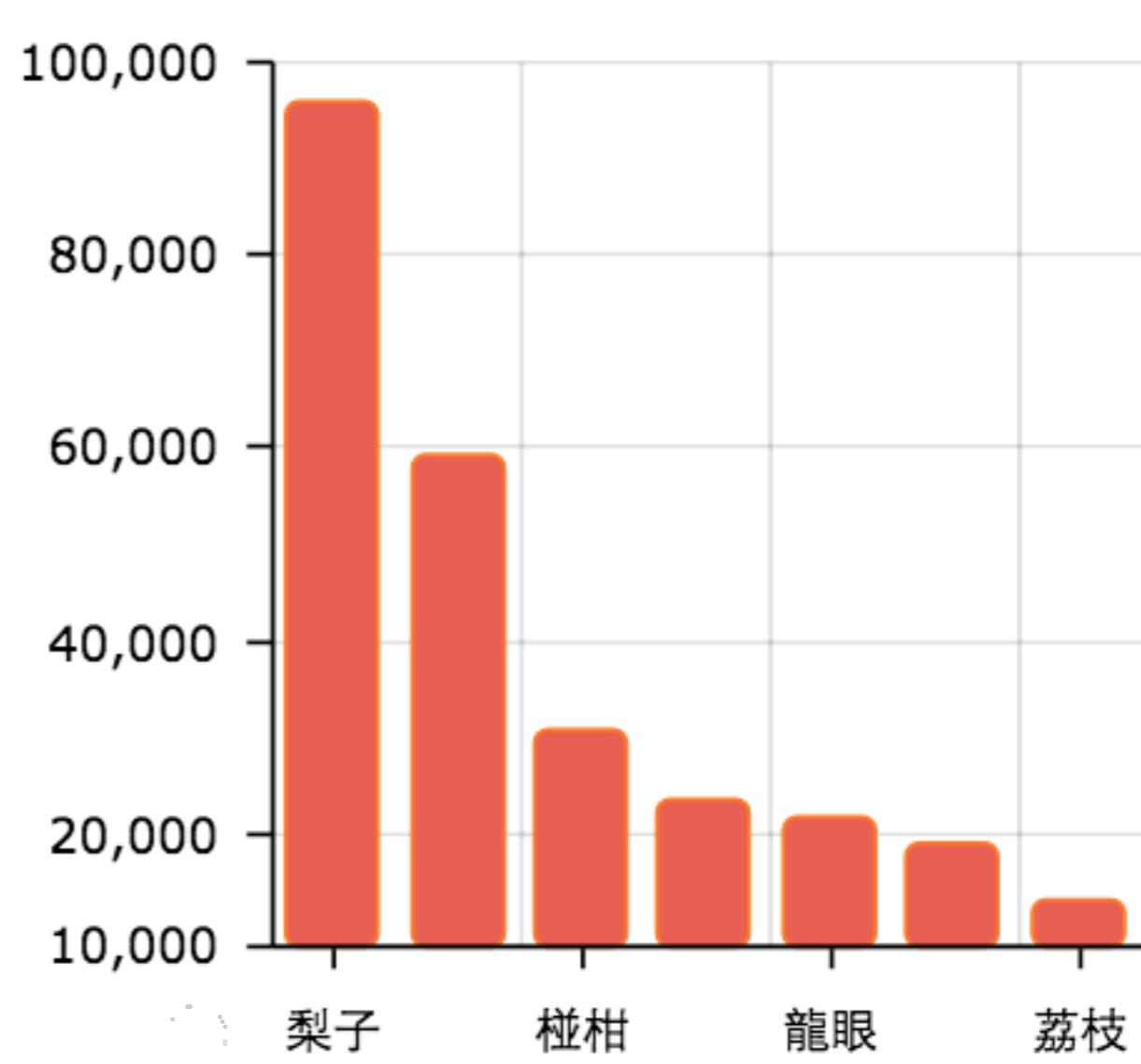
台中市**101**年度水果產量



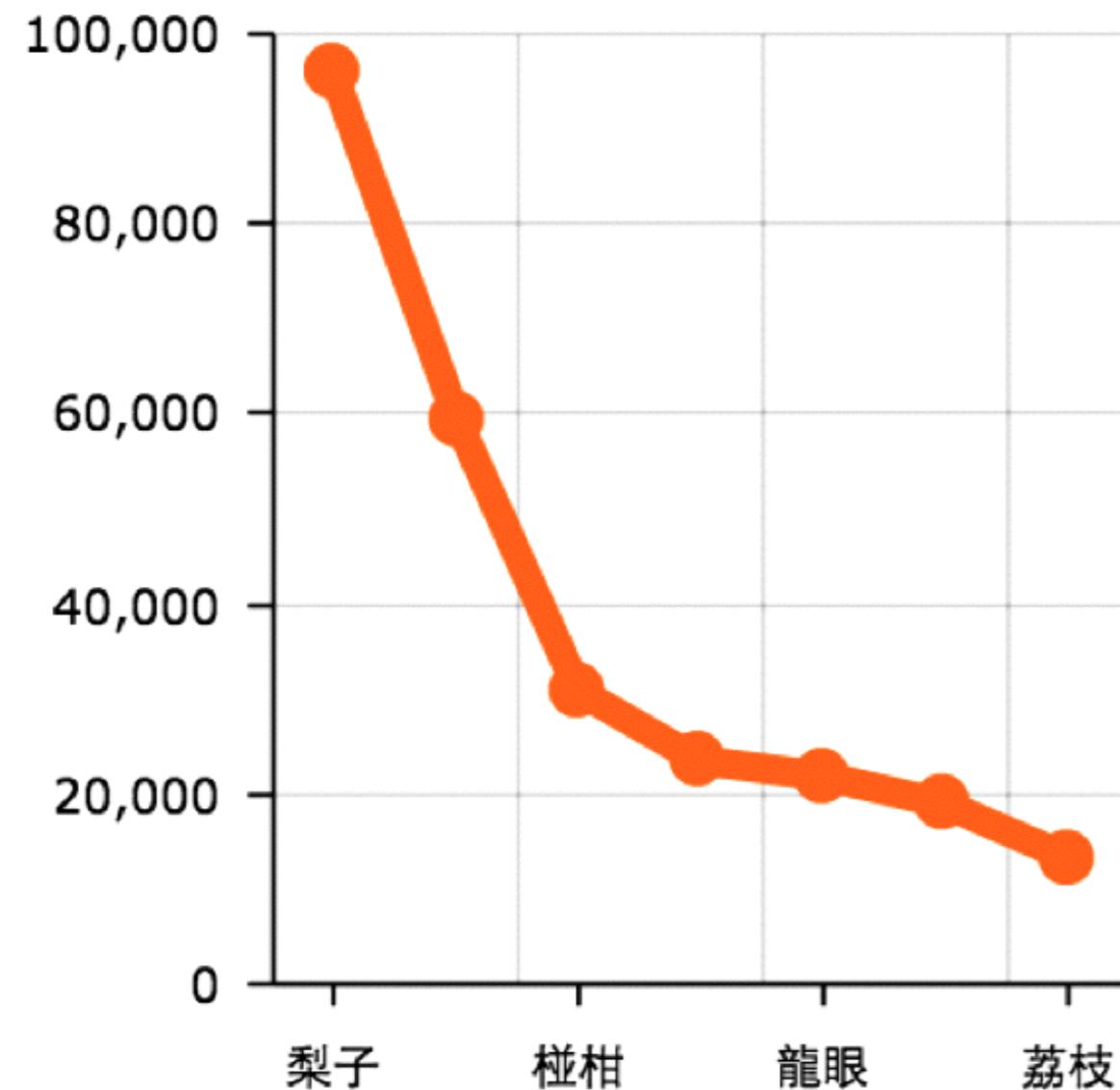
台中市**101**年度水果產量



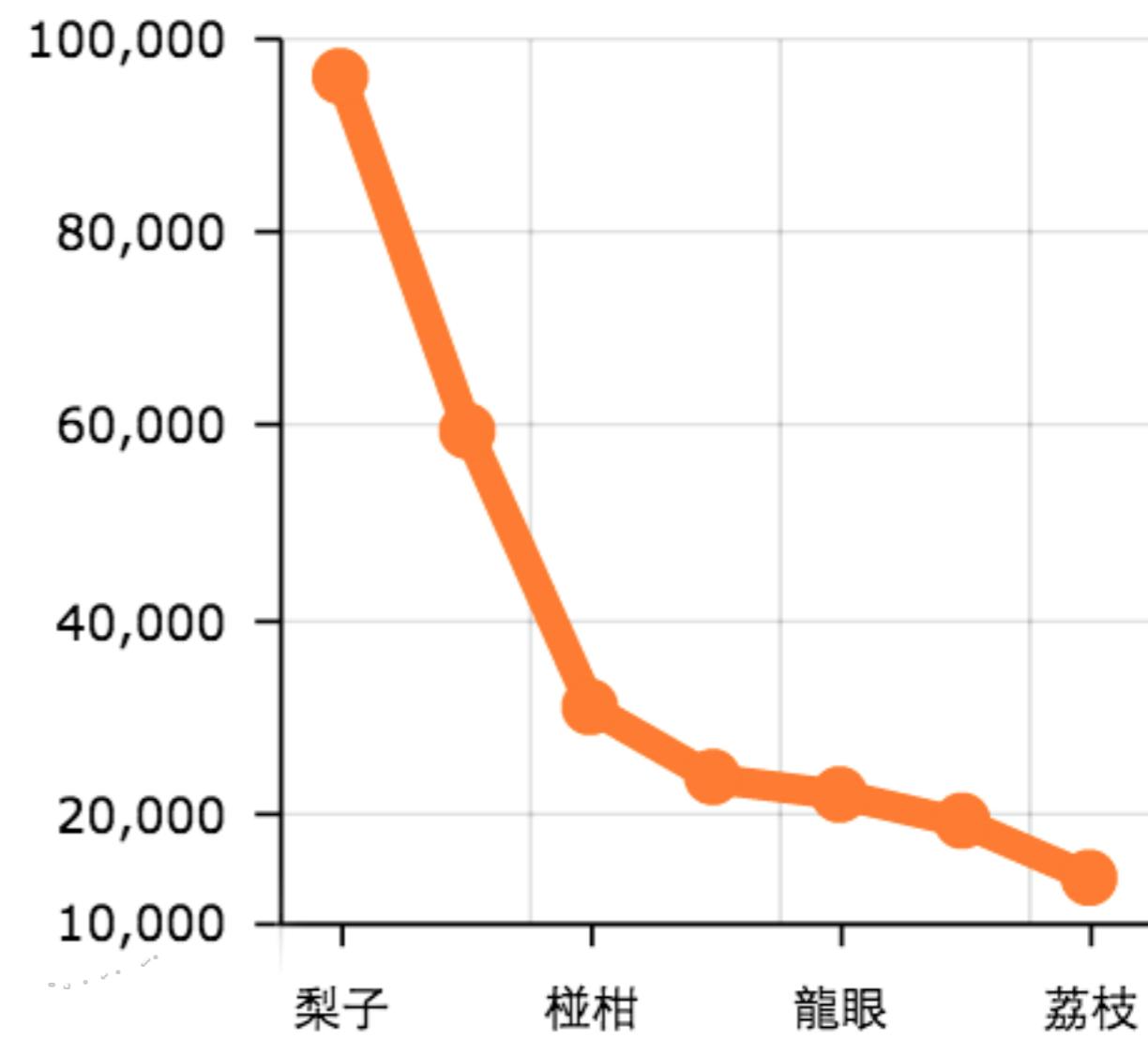
台中市**101**年度水果產量

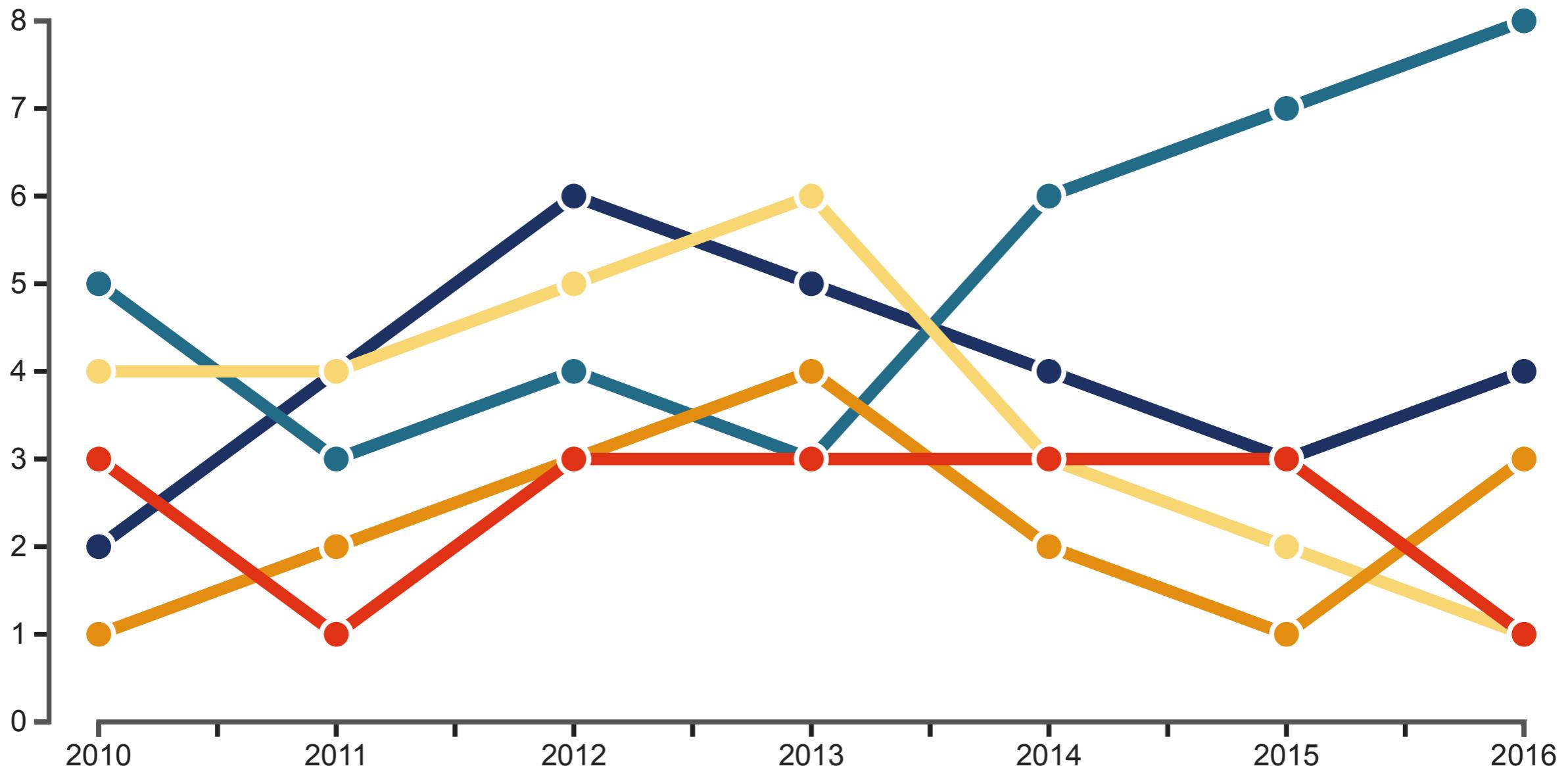


台中市**101**年度水果產量

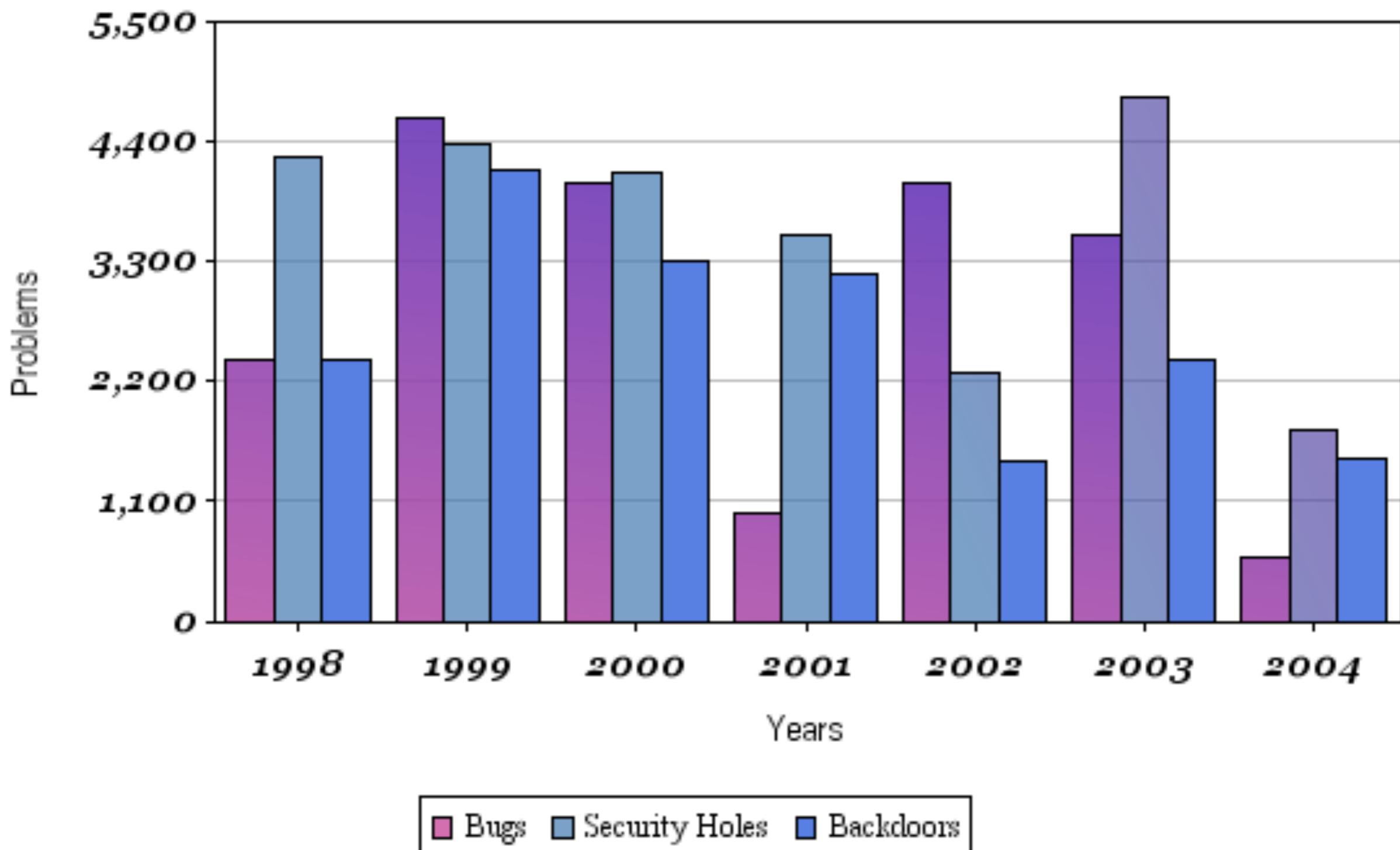


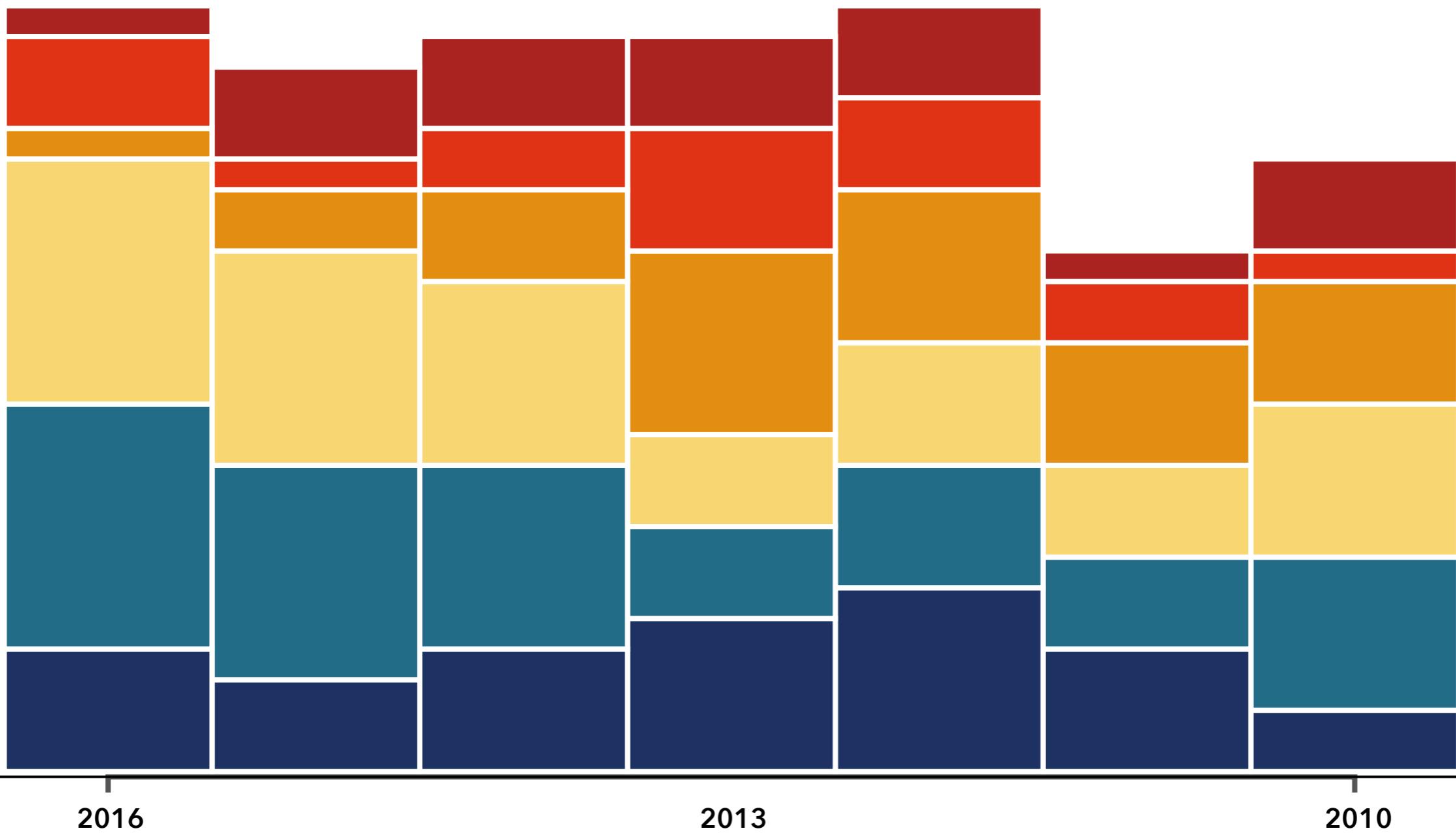
台中市**101**年度水果產量

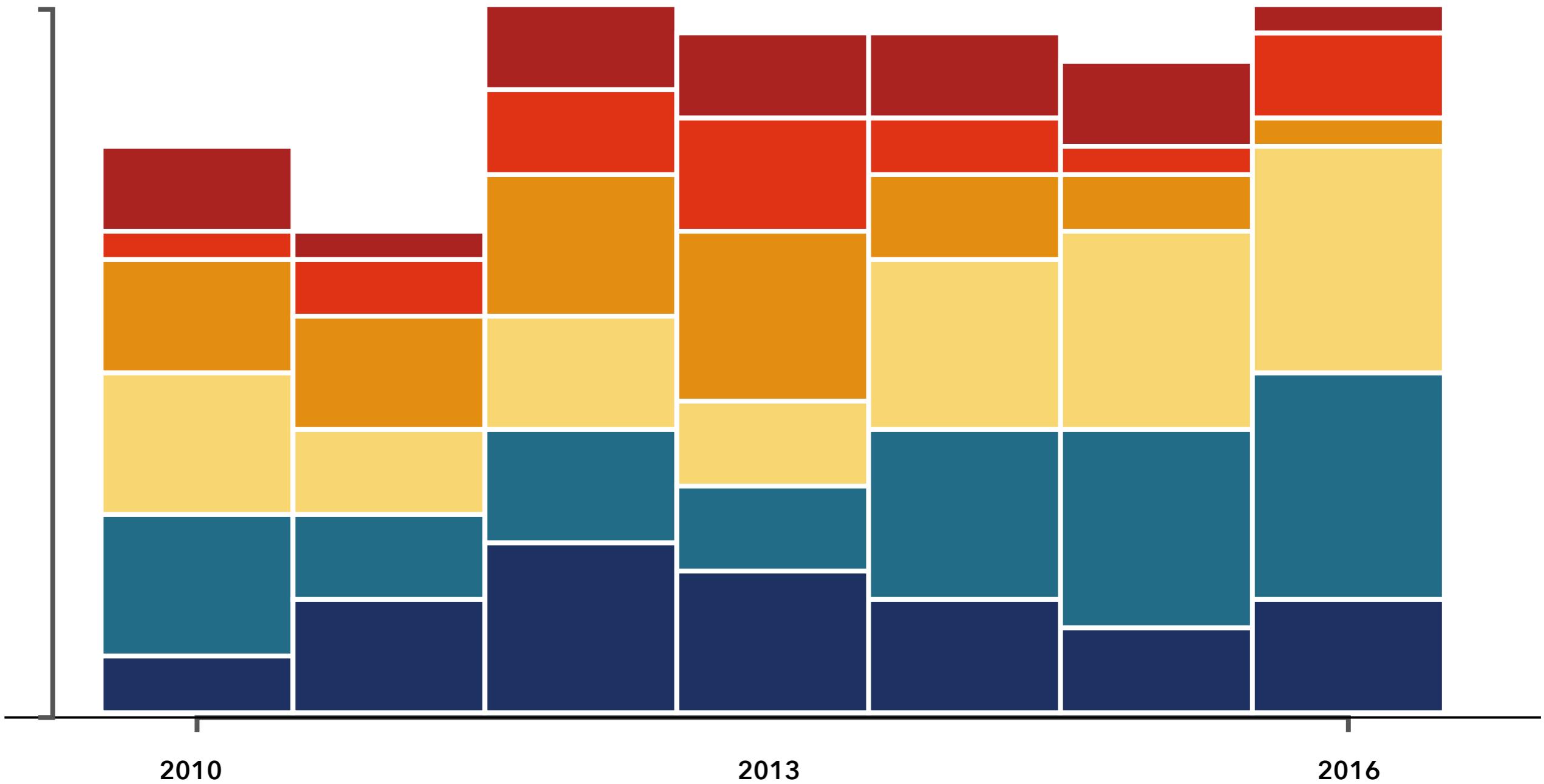




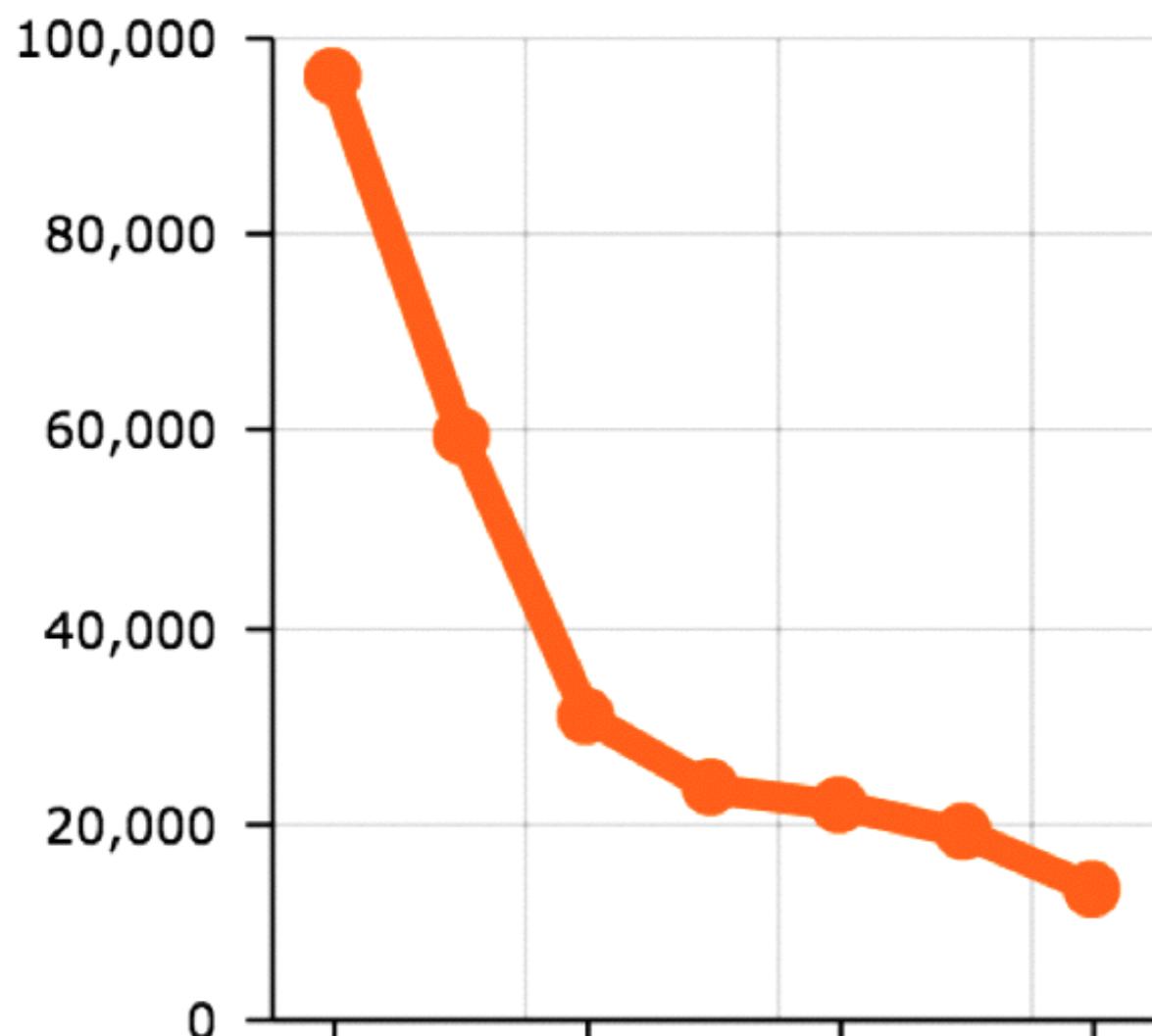
Micro\$oft At Work





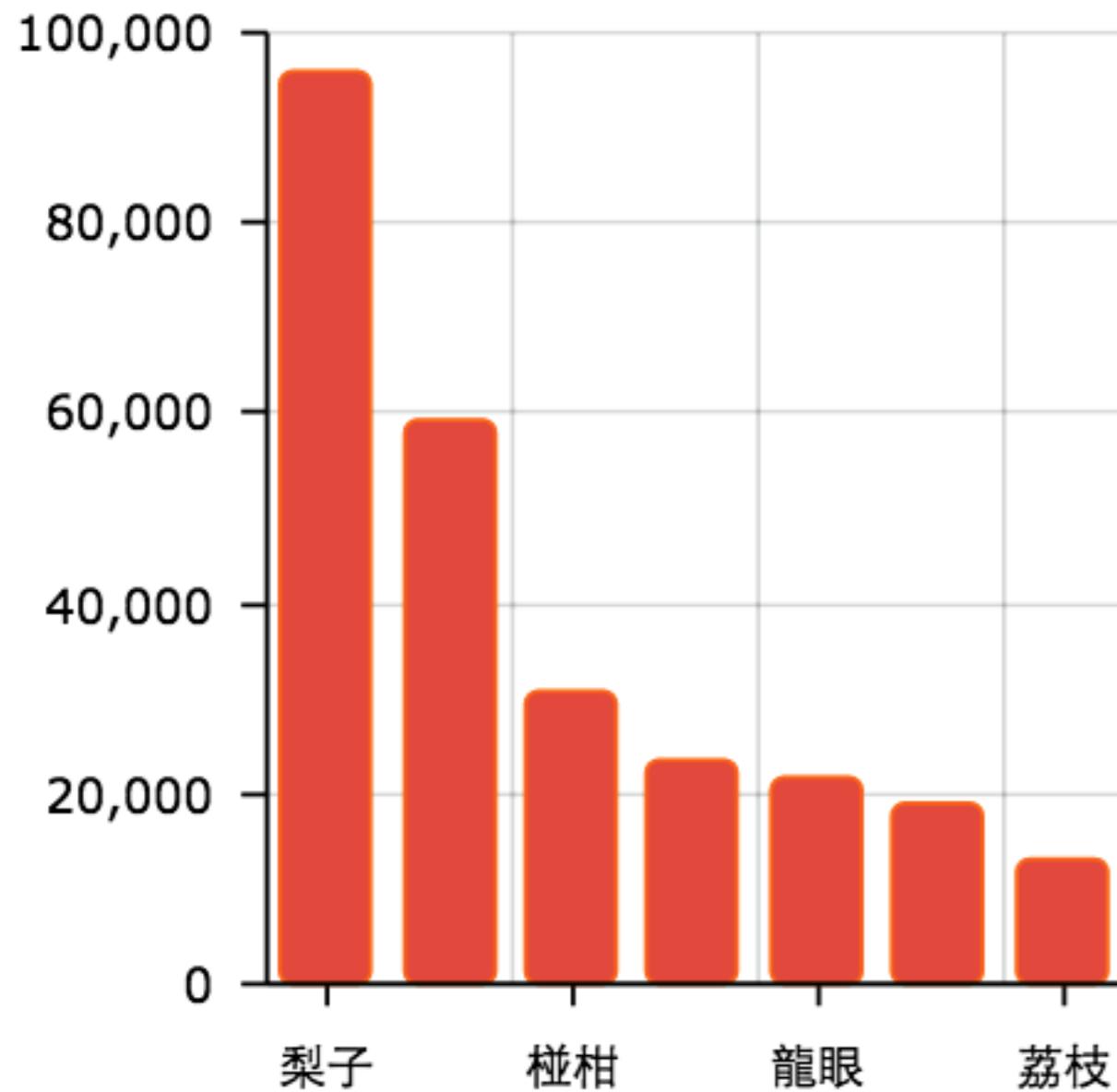


折線圖要點



1. 用以表現趨勢
2. 橫軸左到右為趨勢方向
3. 避免座標裁切
4. 避免用在無序資料
5. 連接散布圖需標明方向
6. 刻度保持一致間距

長條圖要點



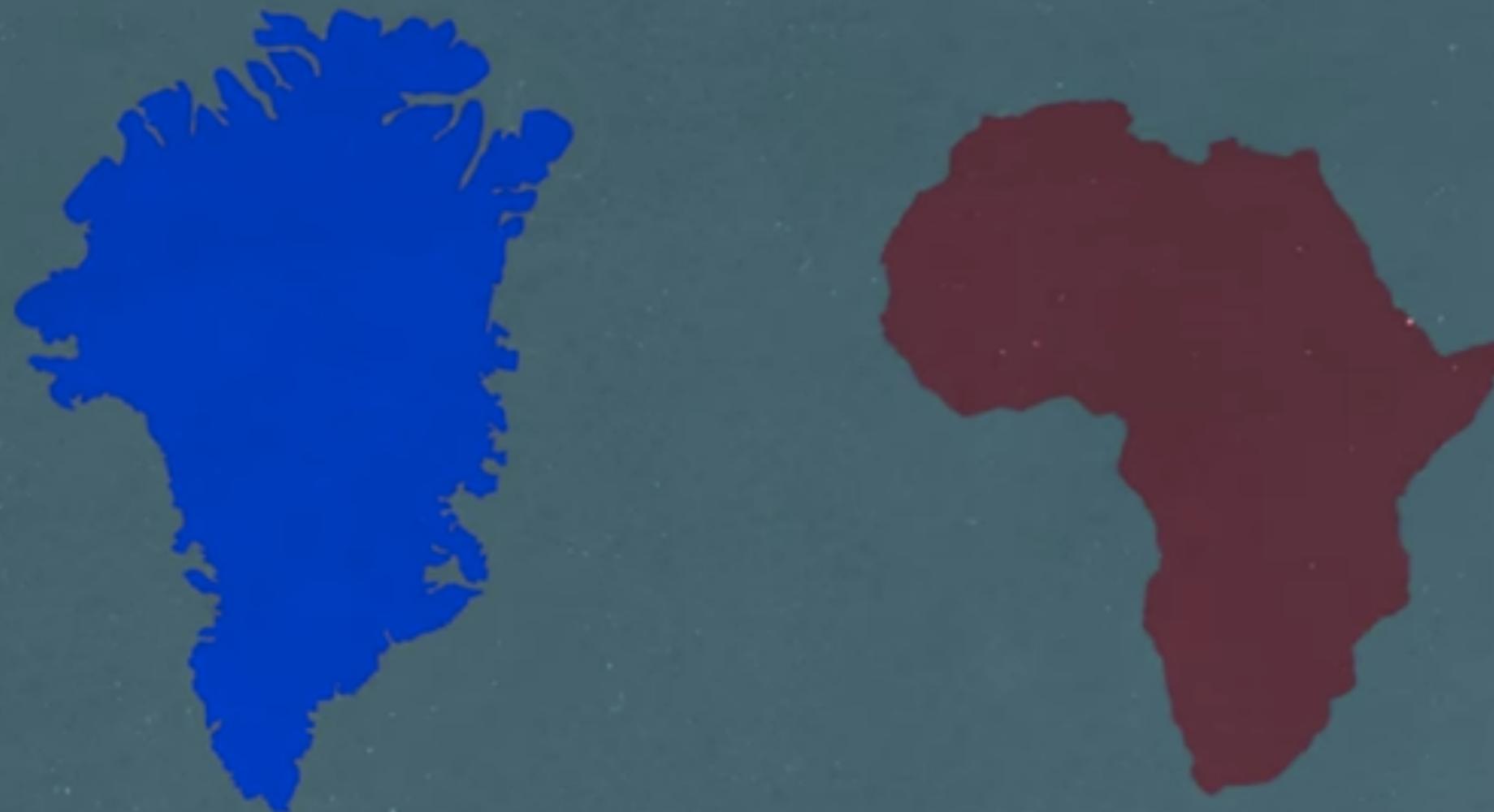
1. 用於無序資料
2. 橫軸左到右為趨勢方向
3. 避免座標裁切
4. 數據不宜過多
5. 資料宜排序後再呈現
6. 刻度保持一致間距



Mercator Projection

Gerardus Mercator, 1569

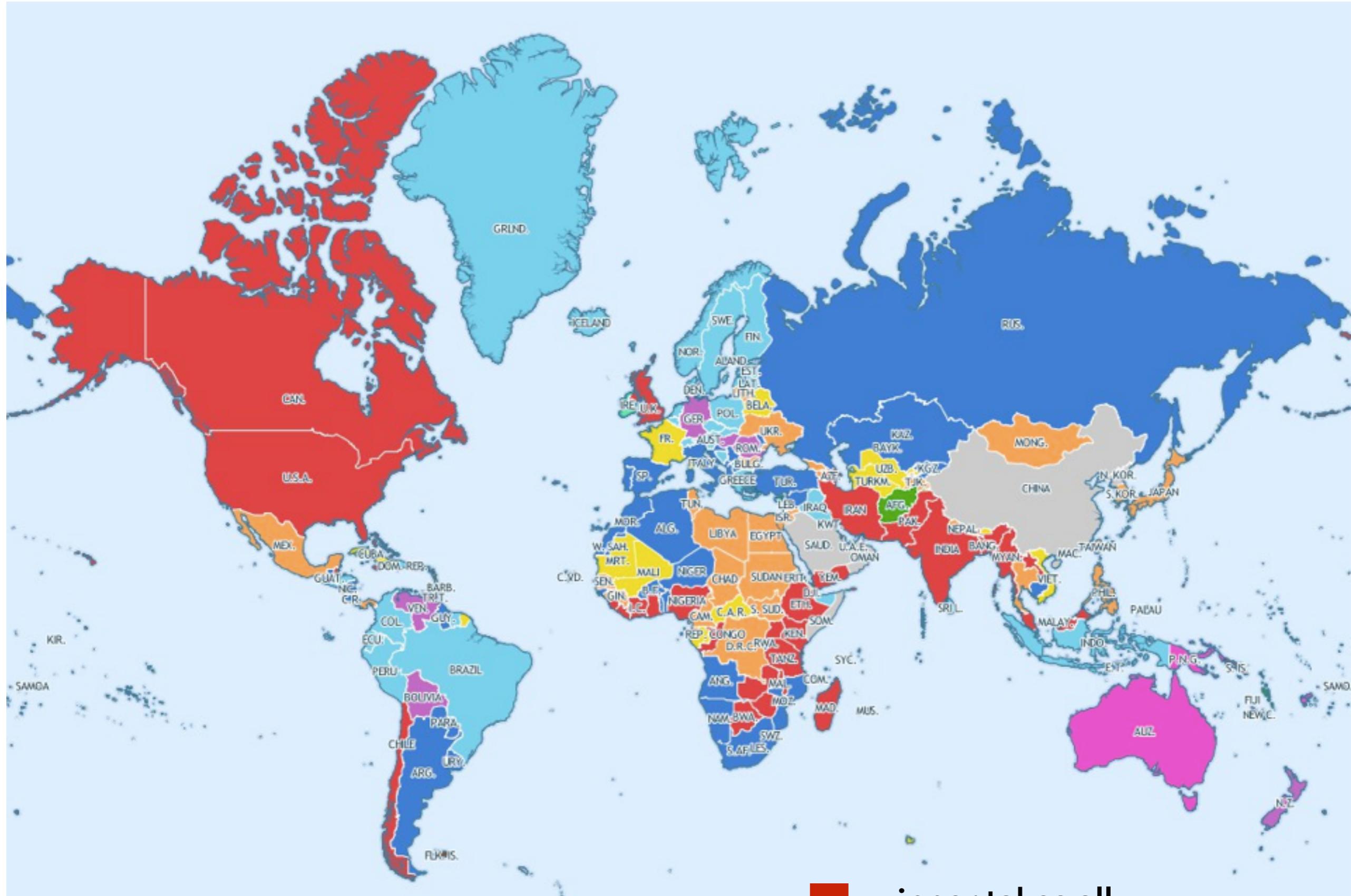
GREENLAND AND AFRICA LOOK ROUGHLY THE SAME SIZE



Maps That Prove You Don't Really Know Earth

BuzzFeed Blue, 2015/02

https://www.youtube.com/watch?v=KUF_Ckv8HbE

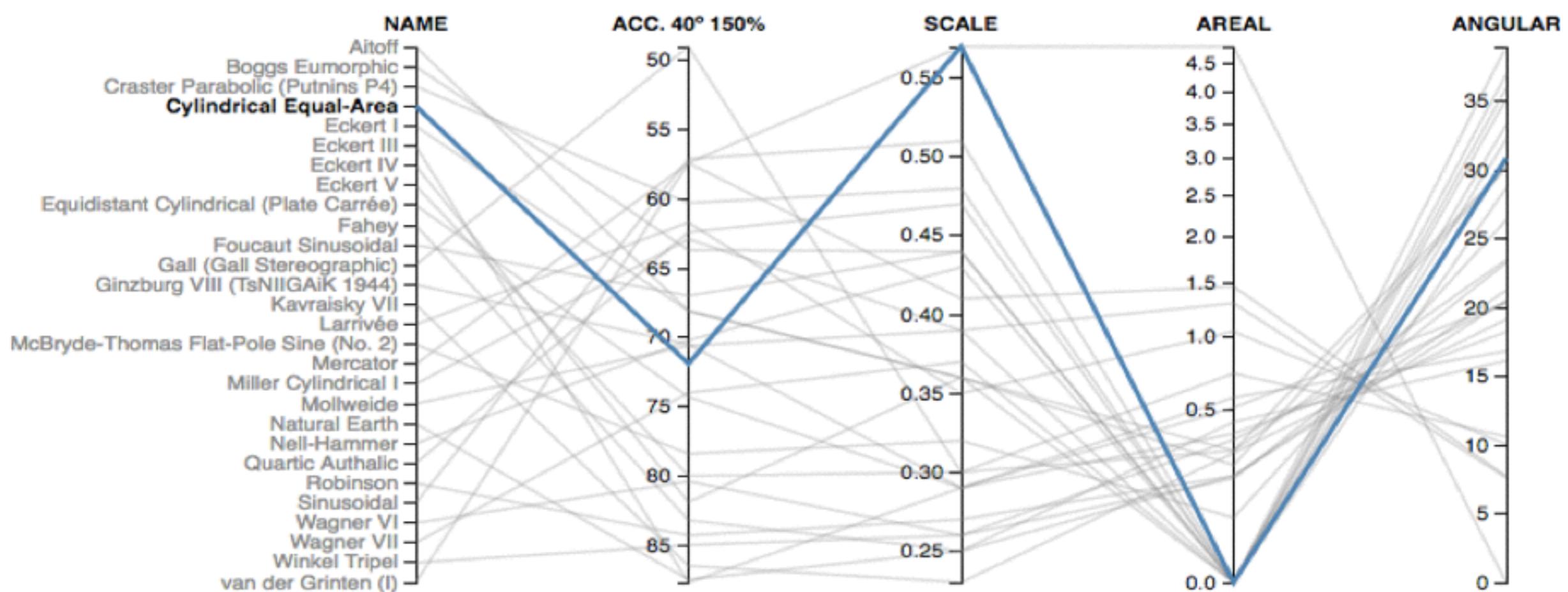
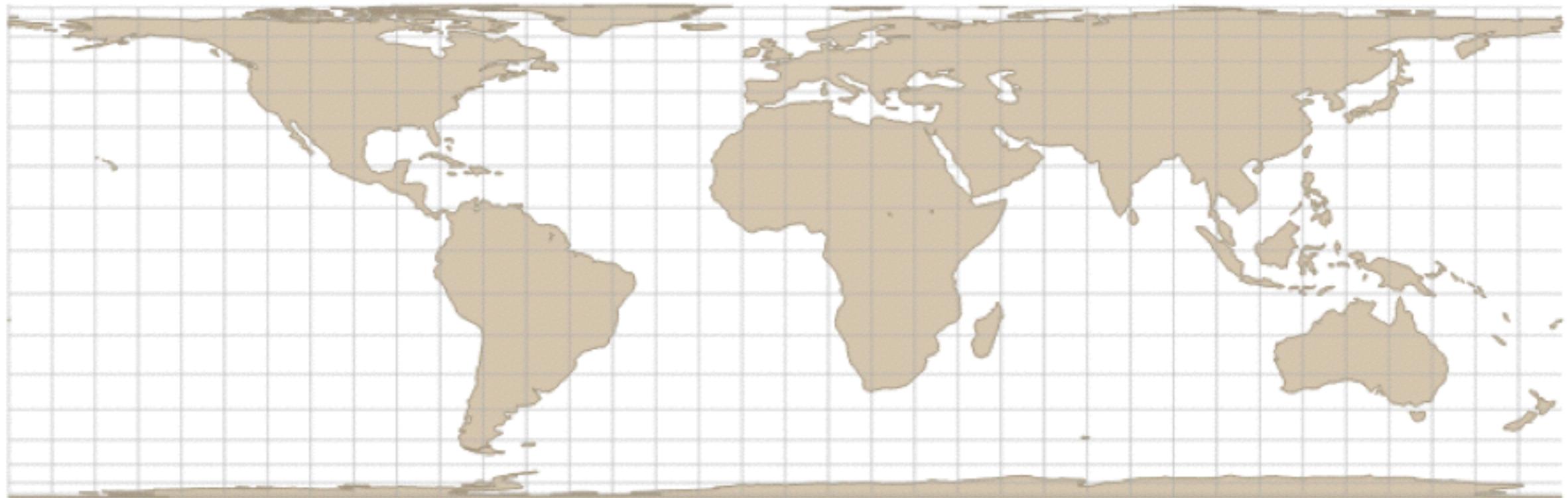


Electoral System of the World

by votefair, http://www.fairvote.org/electoral_systems

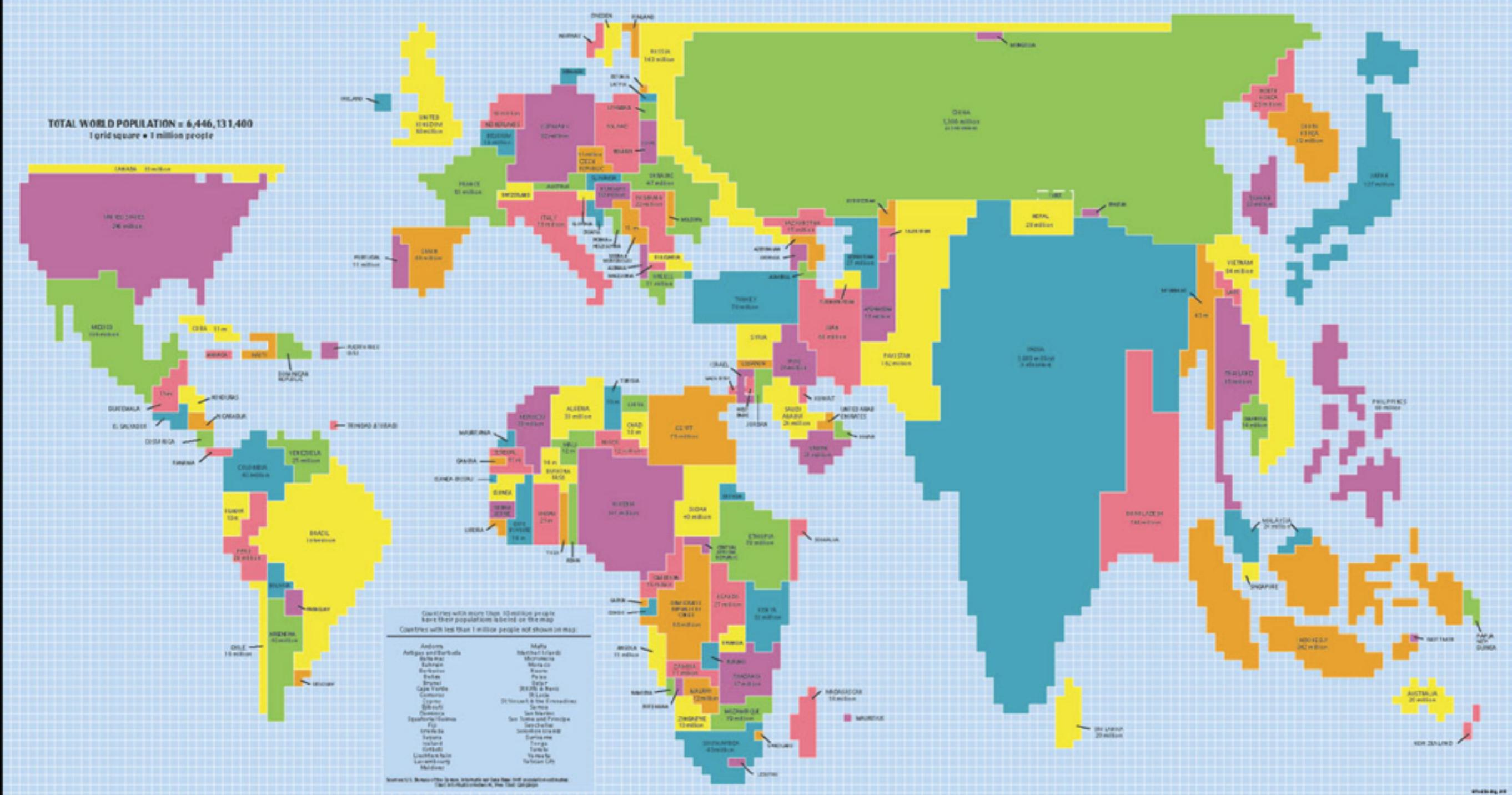
<http://a.tiles.mapbox.com/v3/fairvote.geography-class/page.html#2/49.6/60.1>

- winner takes all**
- open list proportional**
- closed list proportional**



Map Projection Comparison

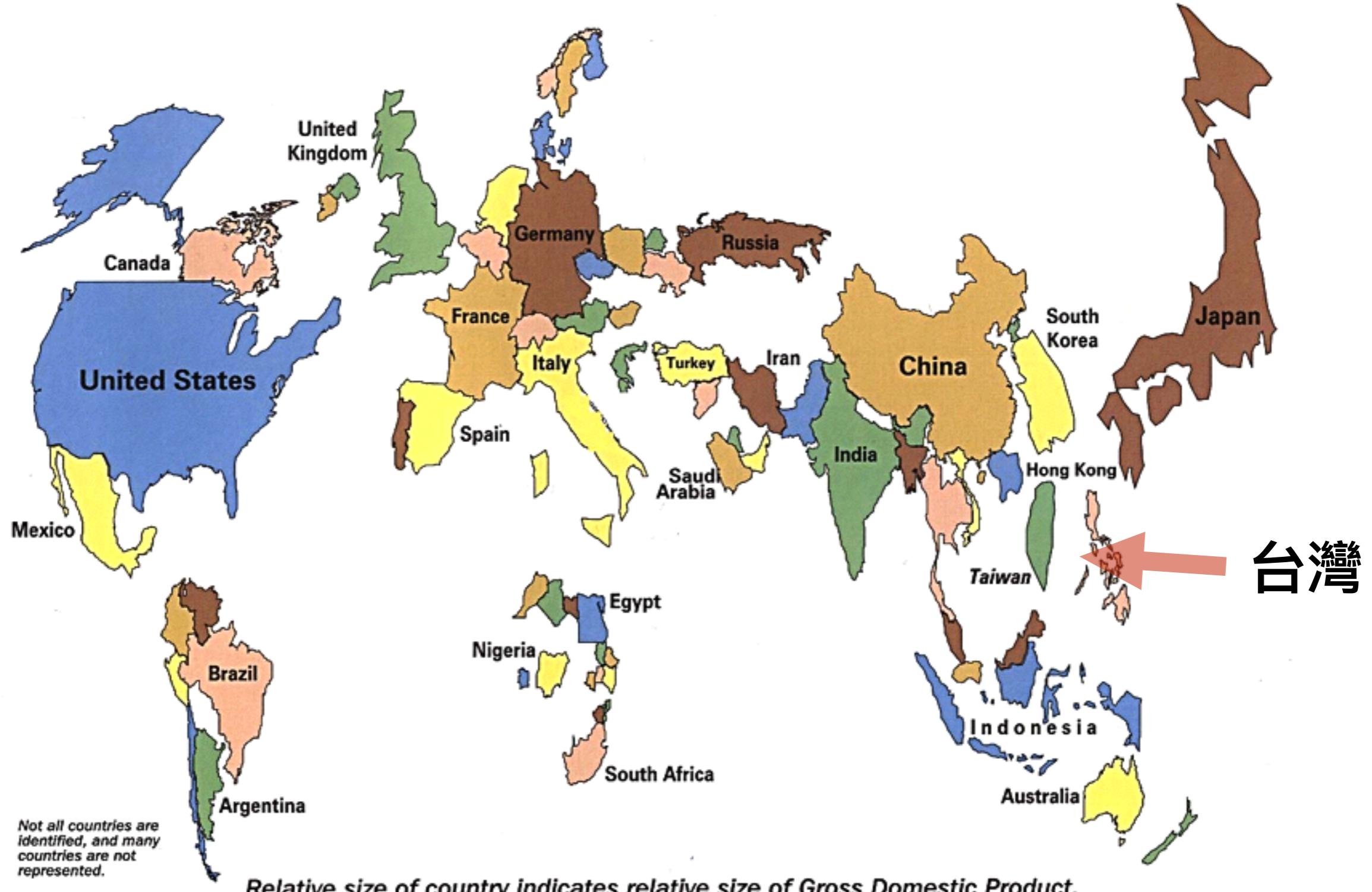
<http://blocks.org/syntagmatic/ba569633d51ebec6ec6e>



World Map Cartogram by Population

<http://rs.resalliance.org/2006/02/14/normalized-global-maps-population-vs-economy/>

Figure 5. Market Size by Gross Domestic Product, 1995



Market Size by GDP, 1995

adopted from "Handbook of International Economic Statistics"

<https://blog.richmond.edu/livesofmaps/2014/11/03/map-of-the-week-market-size-by-gross-domestic-product-1995/>

Overlapping
Non-contiguous



Non-overlapping
Non-contiguous



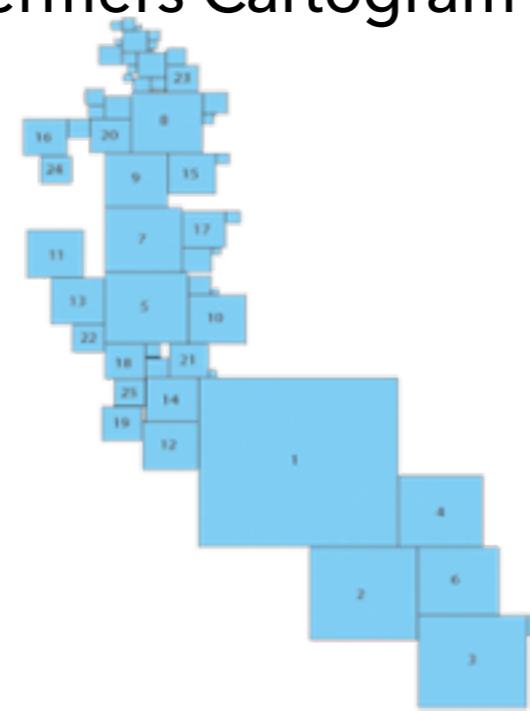
Contiguous



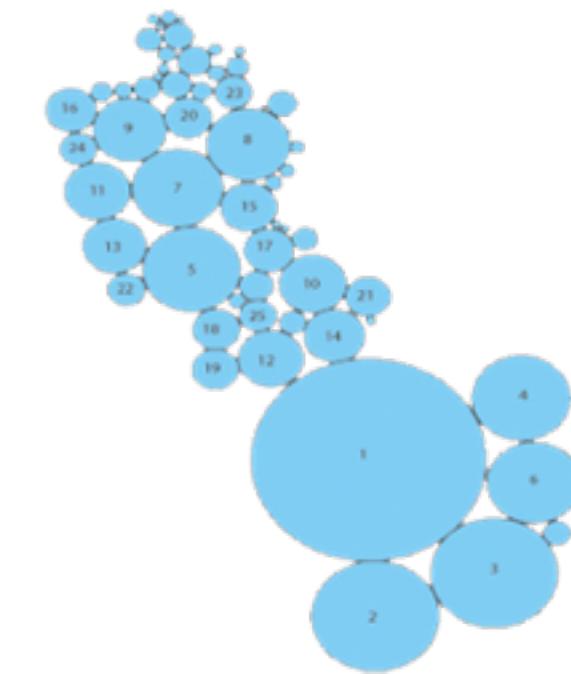
Graduated Symbol Map



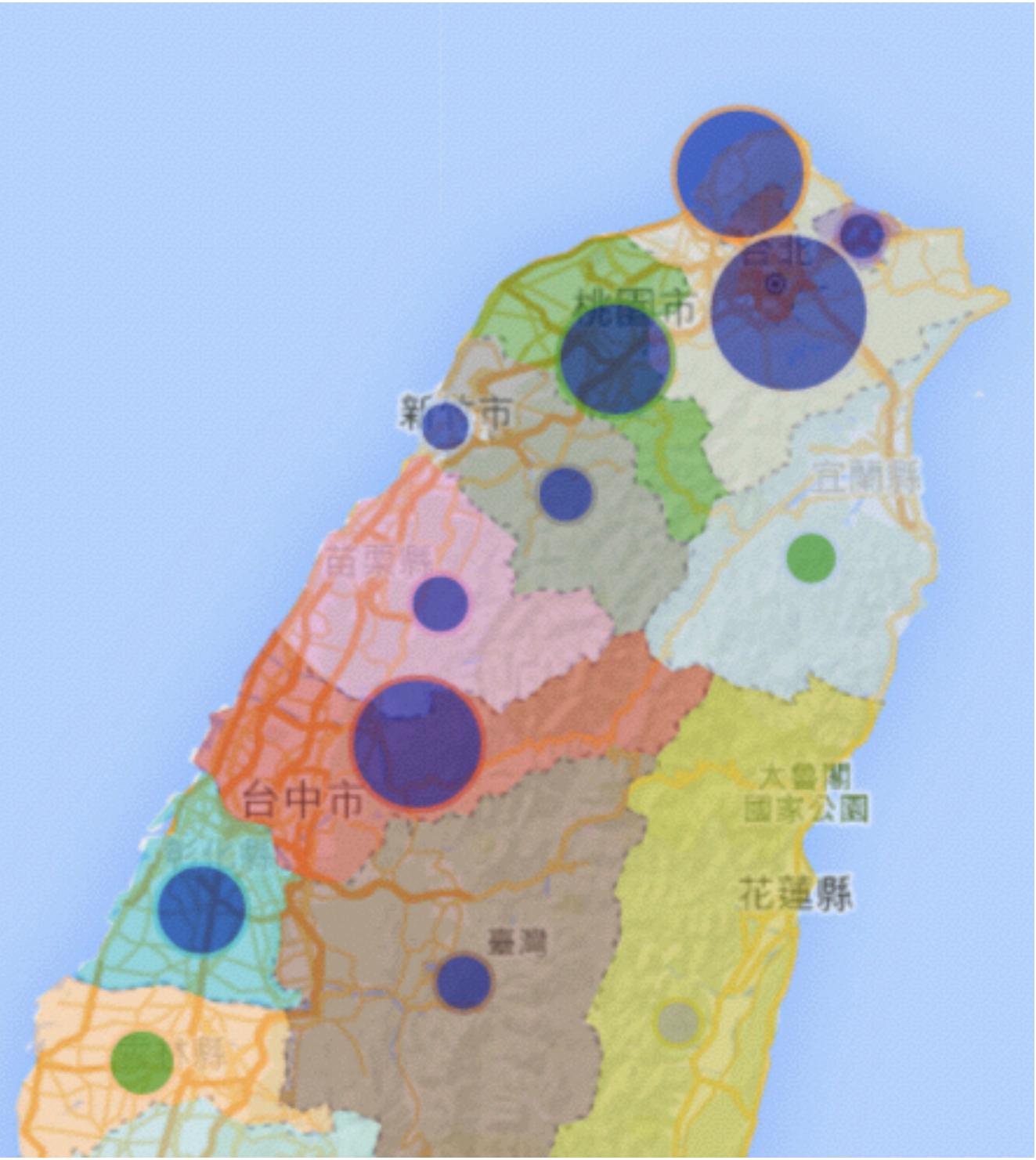
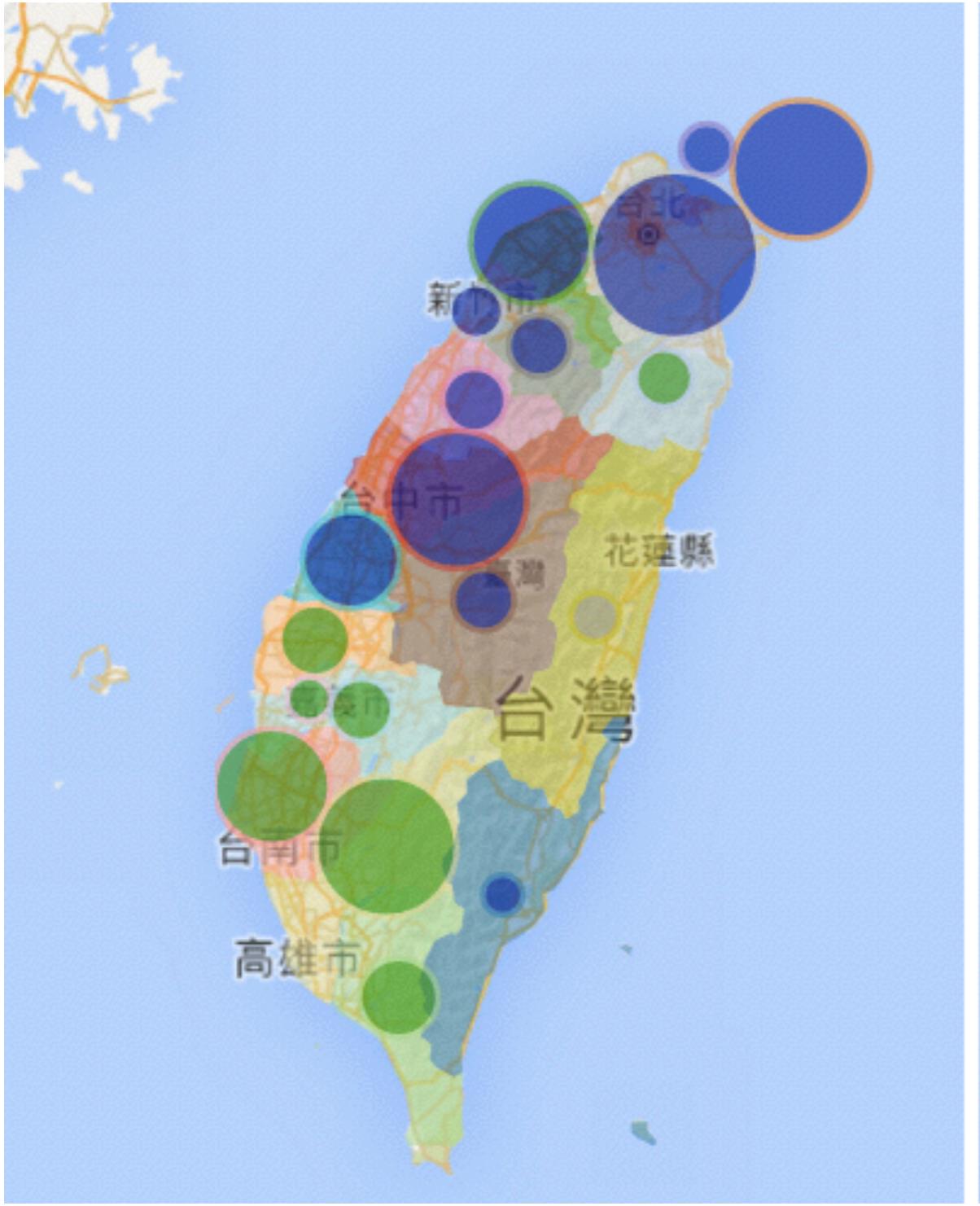
Dermers Cartogram



Dorling Cartogram



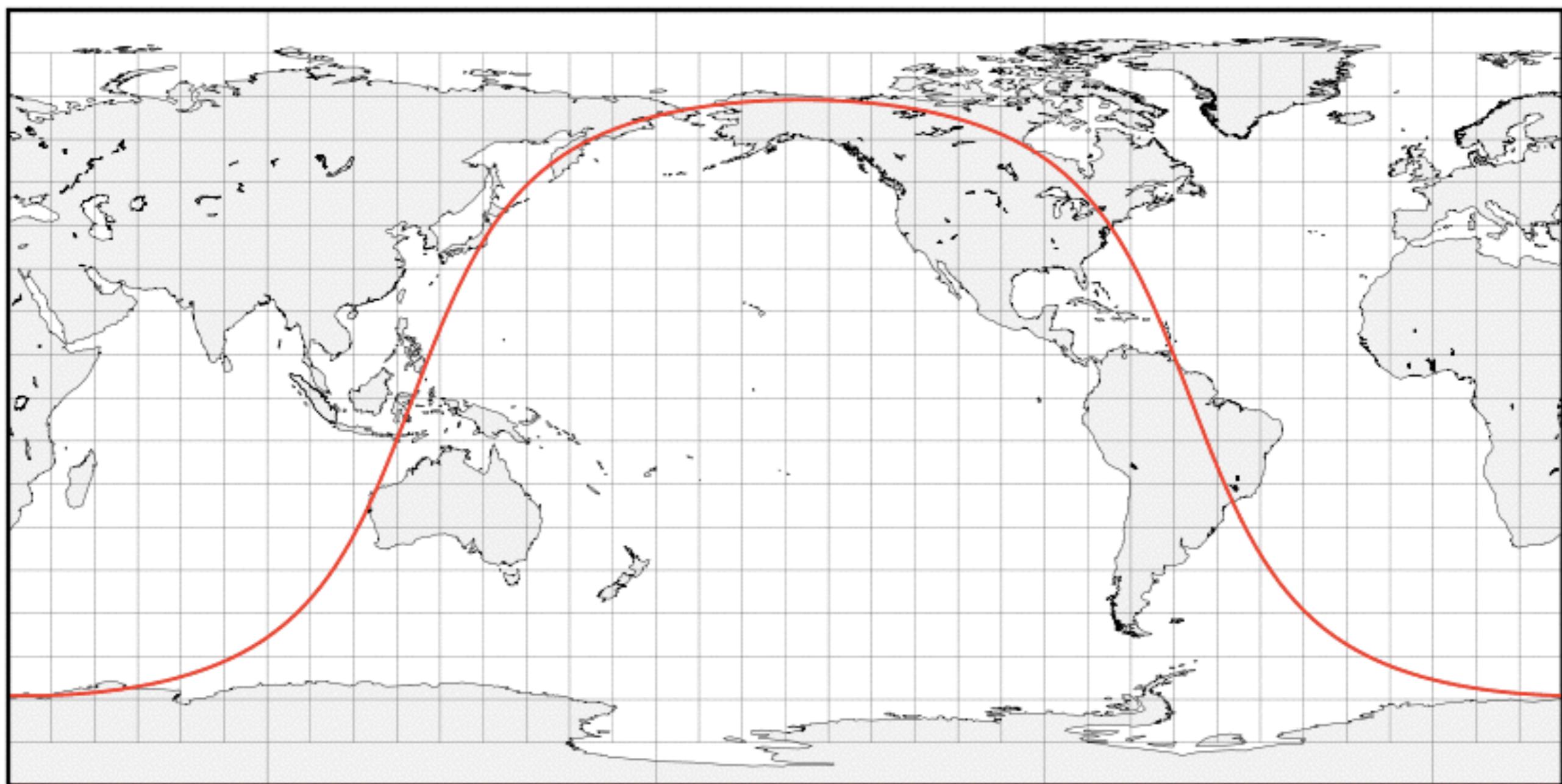
Cartogram Types

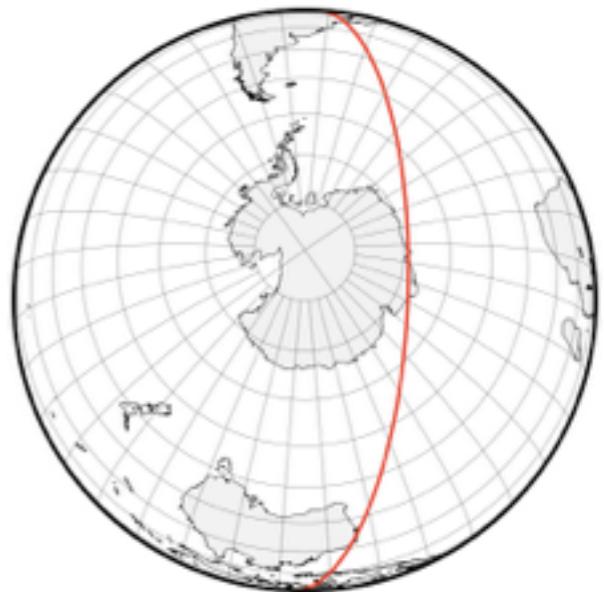
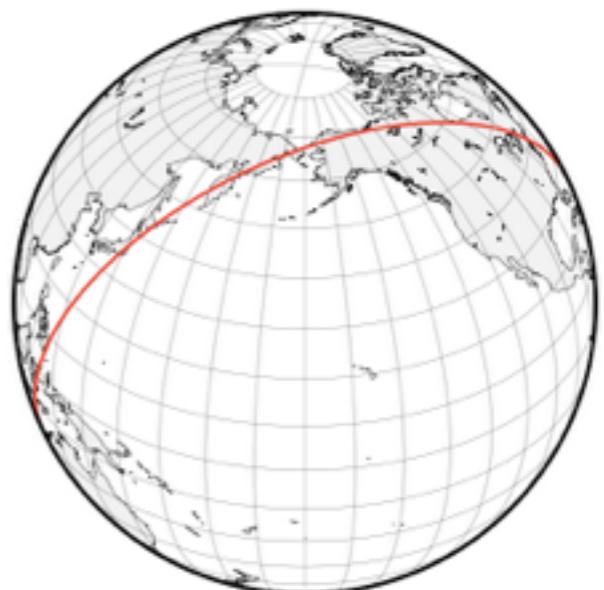
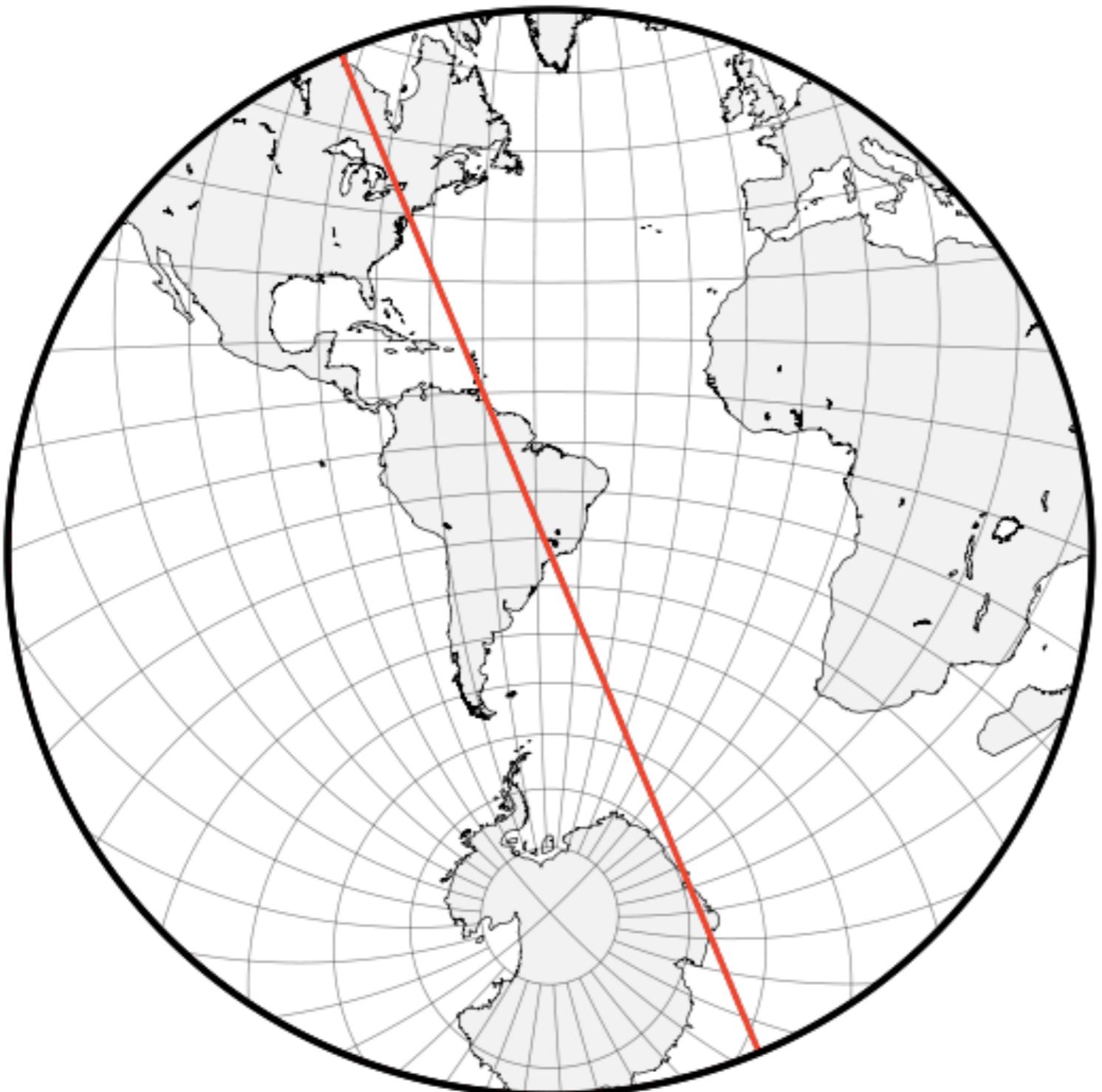


D3js with Map

by zbryikt, <http://zbryikt.github.io/visualize/dorling/>

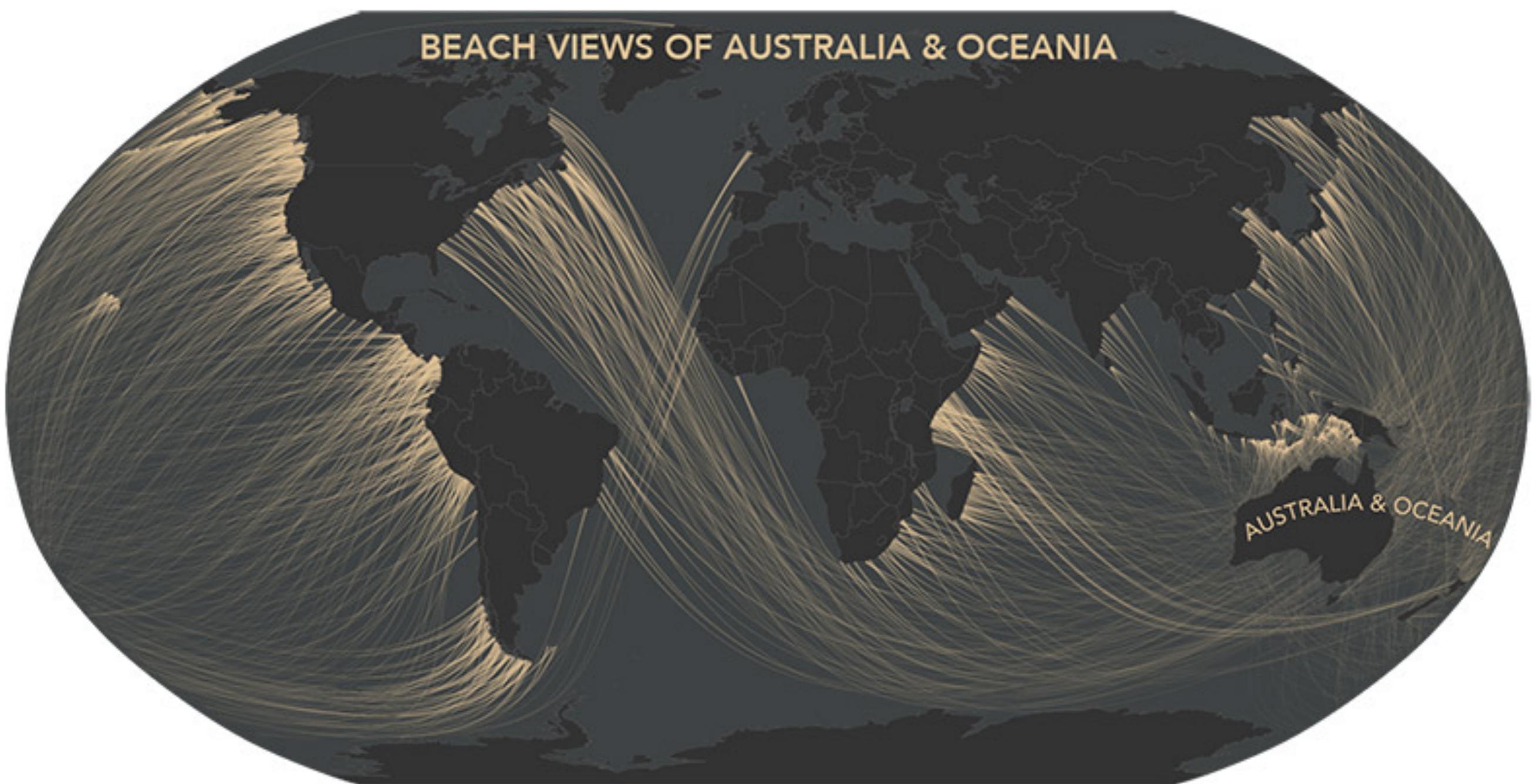
<https://www.safaribooksonline.com/blog/2014/02/11/d3-js-maps/>







BEACH VIEWS OF AUSTRALIA & OCEANIA



Beyond the Sea

By Andy Woodruff on 24 March 2016

<http://andywoodruff.com/blog/beyond-the-sea/>



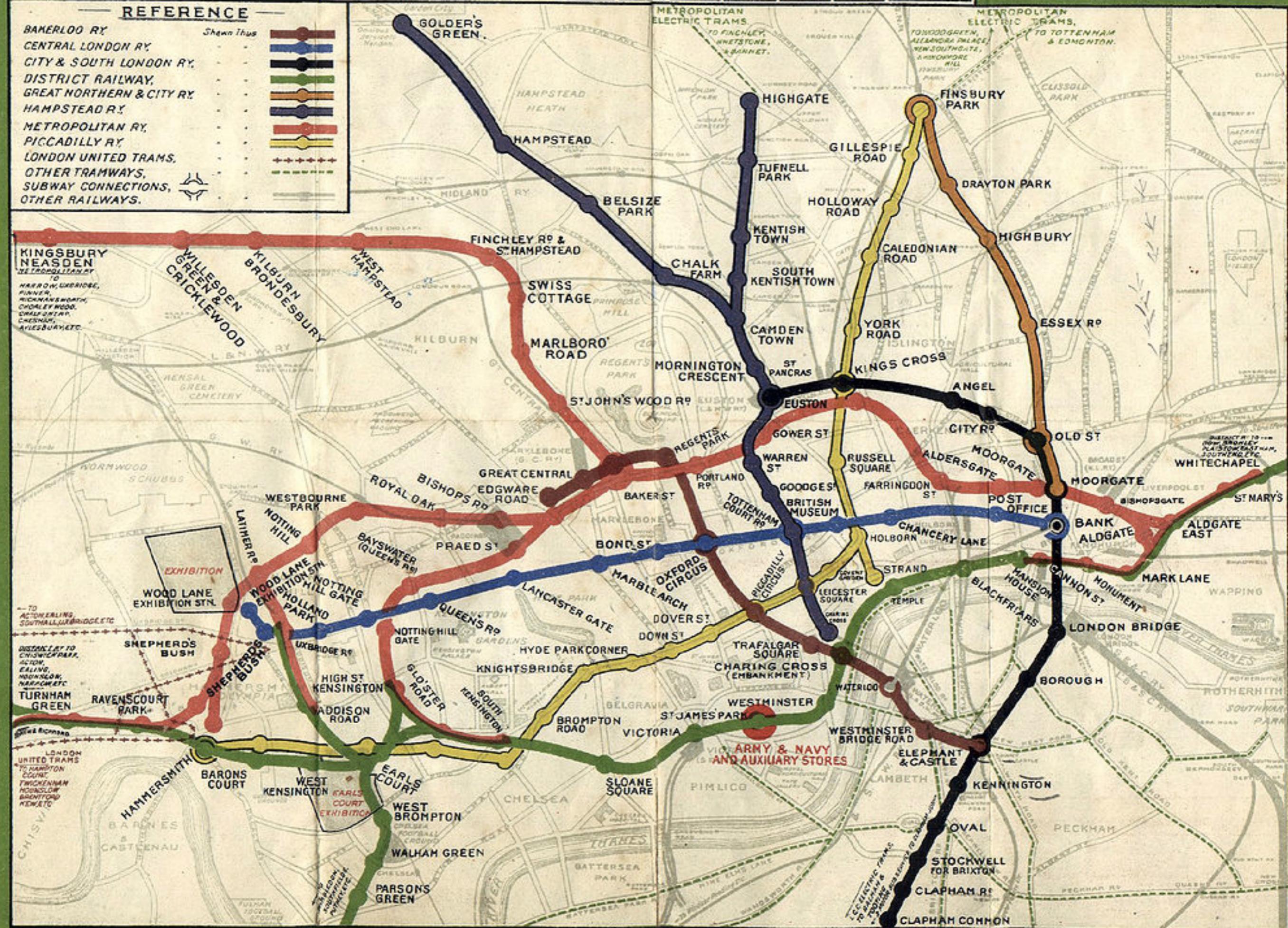


London Underground Map

Henry Beck, 1933. topological map is a type of diagram that has been simplified so that only vital information remains and unnecessary detail has been removed.

REFERENCE

BAKERLOO RY.
CENTRAL LONDON RY.
CITY & SOUTH LONDON RY.
DISTRICT RAILWAY.
GREAT NORTHERN & CITY RY.
HAMPSTEAD RY.
METROPOLITAN RY.
PICCADILLY RY.
LONDON UNITED TRAMS.
OTHER TRAMWAYS.
SUBWAY CONNECTIONS.
OTHER RAILWAYS.





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台北捷運路網圖

This map illustrates the locations and dates of accidents along the Taipei MRT system from 2014 to 2015. The map shows the Red, Blue, and Brown lines.

Accident Dates:

- Red Line: 2014/06/06 (復興崙), 2014/06/08 (奇岩), 2014/08/02 (石牌), 2014/08/20 (中山), 2014/07/20 (中山), 2014/05/22 (臺北車站), 2014/07/03 (台大醫院), 2015/05/31 (圓山), 2015/06/24 (雙連), 2015/04/17 (大安), 2015/05/08 (松江南京), 2015/04/06 (三重國中), 2015/01/08 (忠義), 2014/02/17 (淡水), 2015/02/17 (紅樹林).
- Blue Line: 2014/06/08 (石牌), 2014/08/02 (明德), 2015/04/17 (大安).
- Brown Line: 2015/05/08 (松江南京).
- Other: 2014/07/20 (臺北車站) marked with a red 'X2'.

统计信息: 521 ~ 2015/07/20 計 4 死 34 傷

地圖視覺化要點



1. 注意投影法與扭曲狀況
2. 考慮資料與面積的關係
3. 考量情境適度的簡化

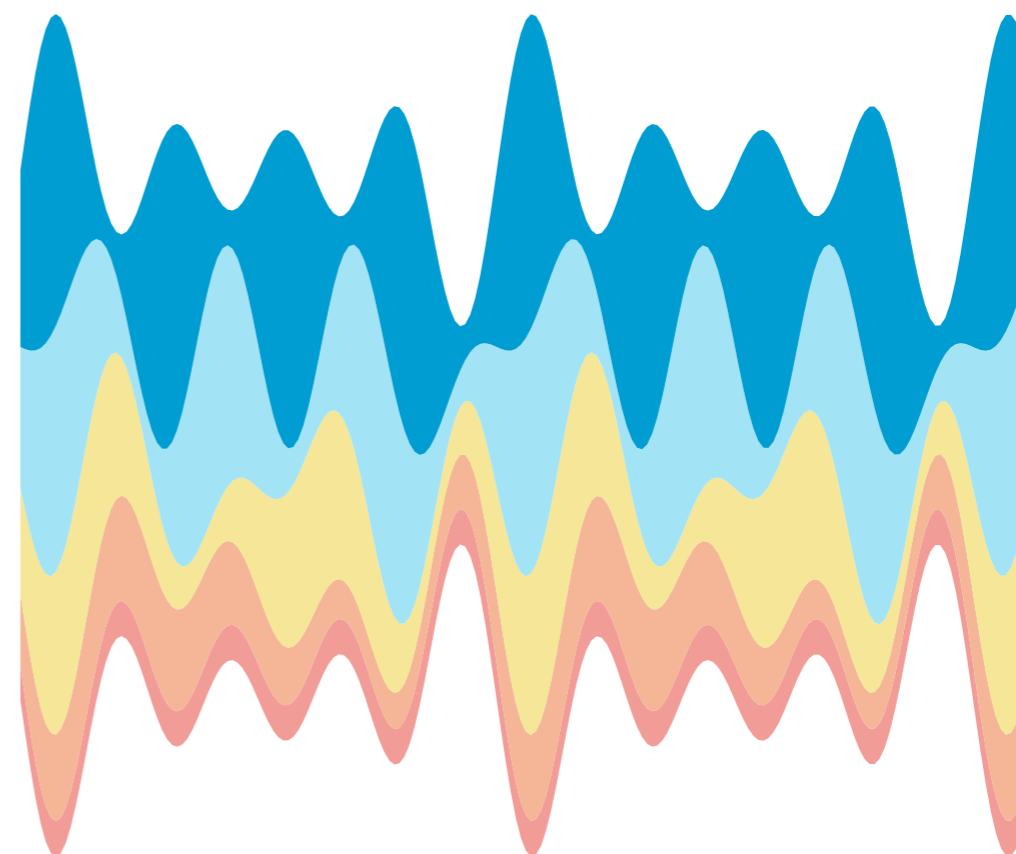
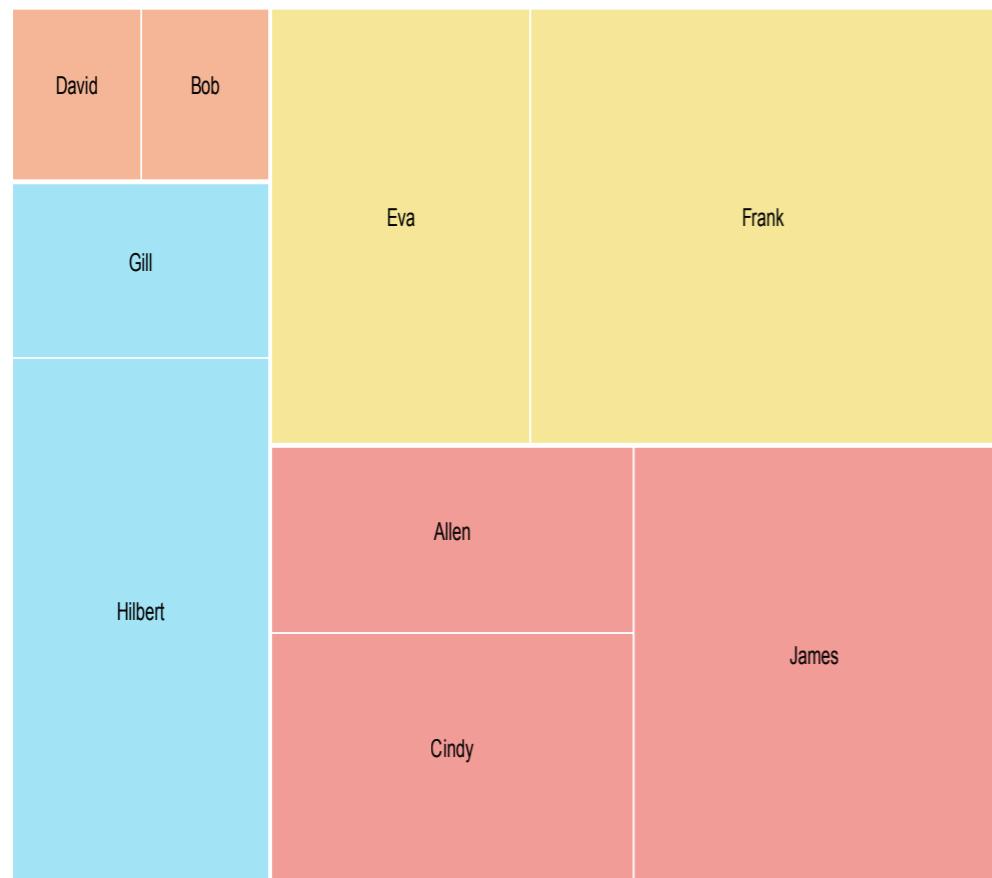
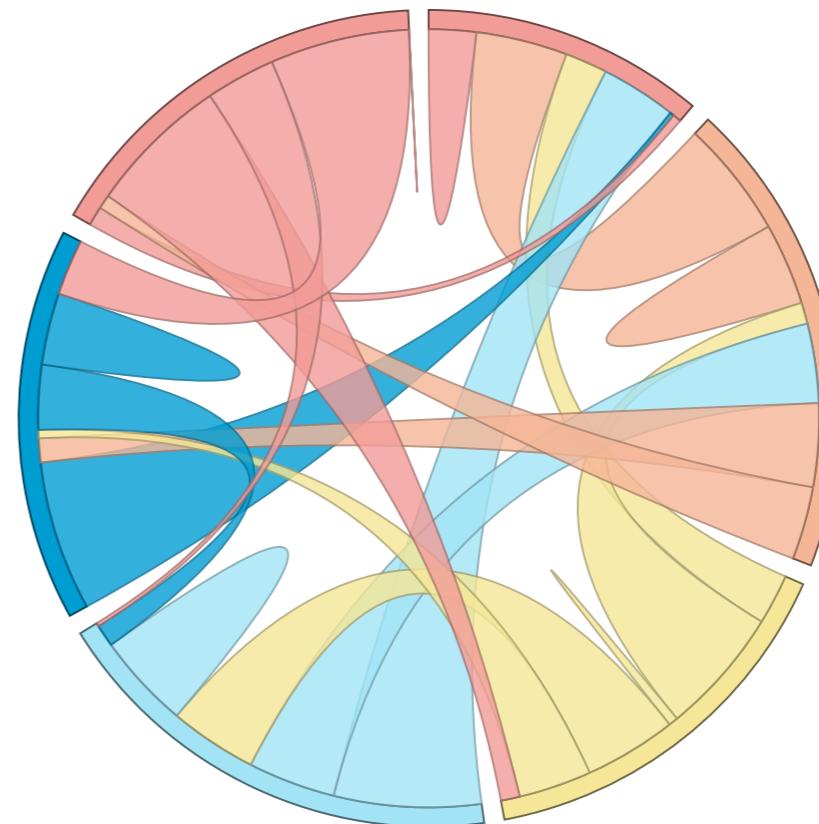
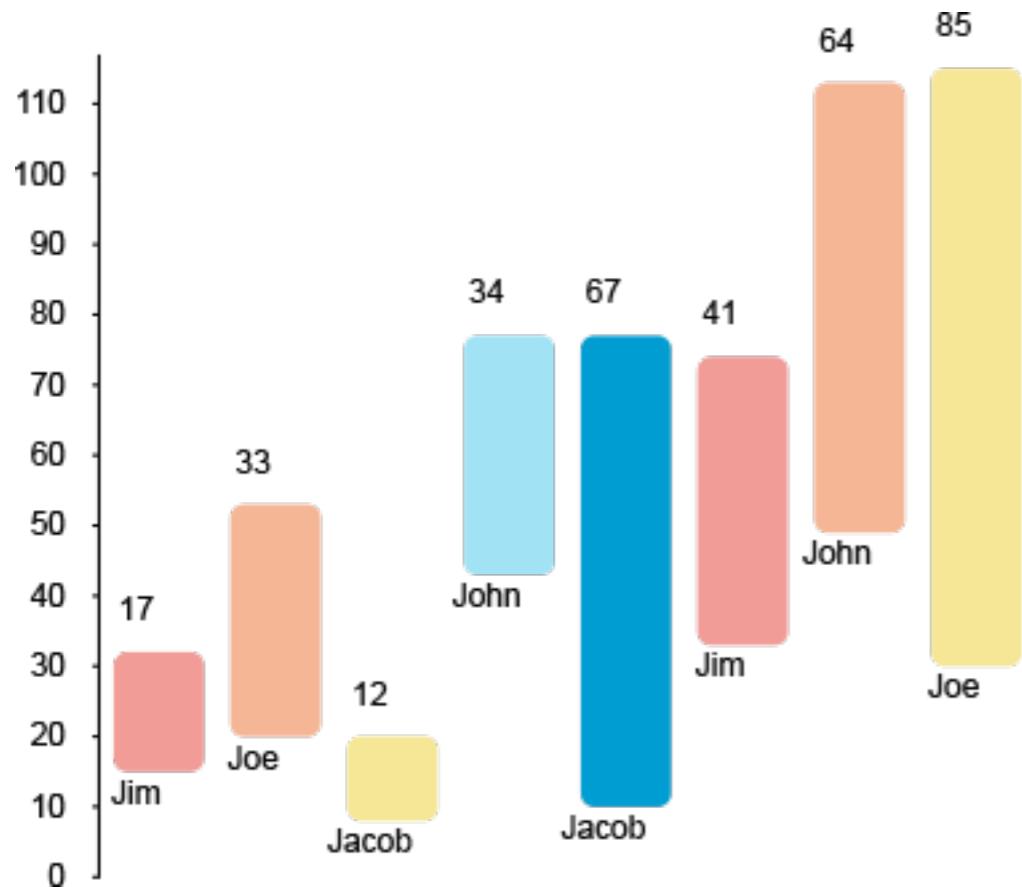
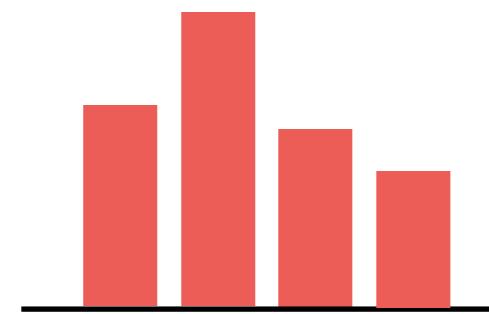
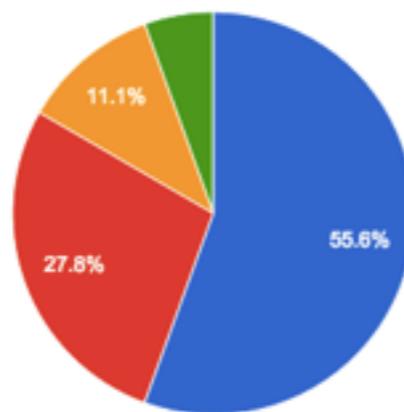


Chart Type for Different Purpose

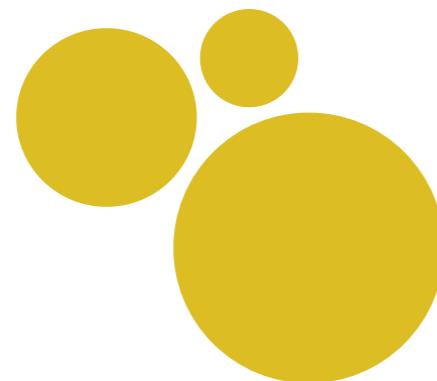
Accurately
Comparison



Bar, Line, Length

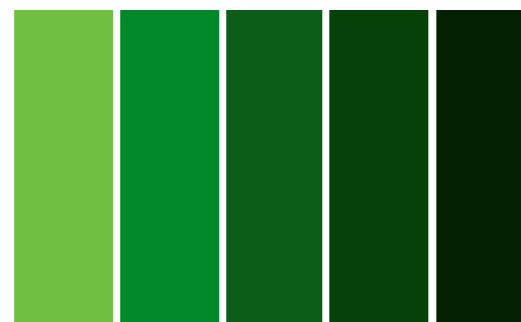


Angle, Pie, Direction



Area, Volume

Relative
Relationship



Shading, Hue, Saturation

圓餅圖要點

1. 表現整體與部份之比例
2. 橫軸左到右為趨勢方向
3. 總和為 100%
4. 從 12 點鐘方向開始
5. 順時針繞圓排序
6. 數量不宜多，2 ~ 7 為佳
7. 不適合跨圖表比較

折線圖要點

1. 用以表現趨勢
2. 橫軸左到右為趨勢方向
3. 避免座標裁切
4. 避免用在無序資料
5. 連接散布圖需標明方向
6. 刻度保持一致間距

面積圖要點

1. 概略表現資料
2. 適合相對性的比較
3. 數值與面積成正比
4. 避免圓以外的形狀
5. 避免用體積表現數值

長條圖要點

1. 用於無序資料
2. 避免座標裁切
3. 數據不宜過多
4. 資料宜排序後再呈現
5. 刻度保持一致間距

地圖要點

1. 注意投影法與扭曲狀況
2. 考慮資料與面積的關係
3. 考量情境適度的簡化

大原則

避免使用立體圖表

考慮更簡潔的呈現方式

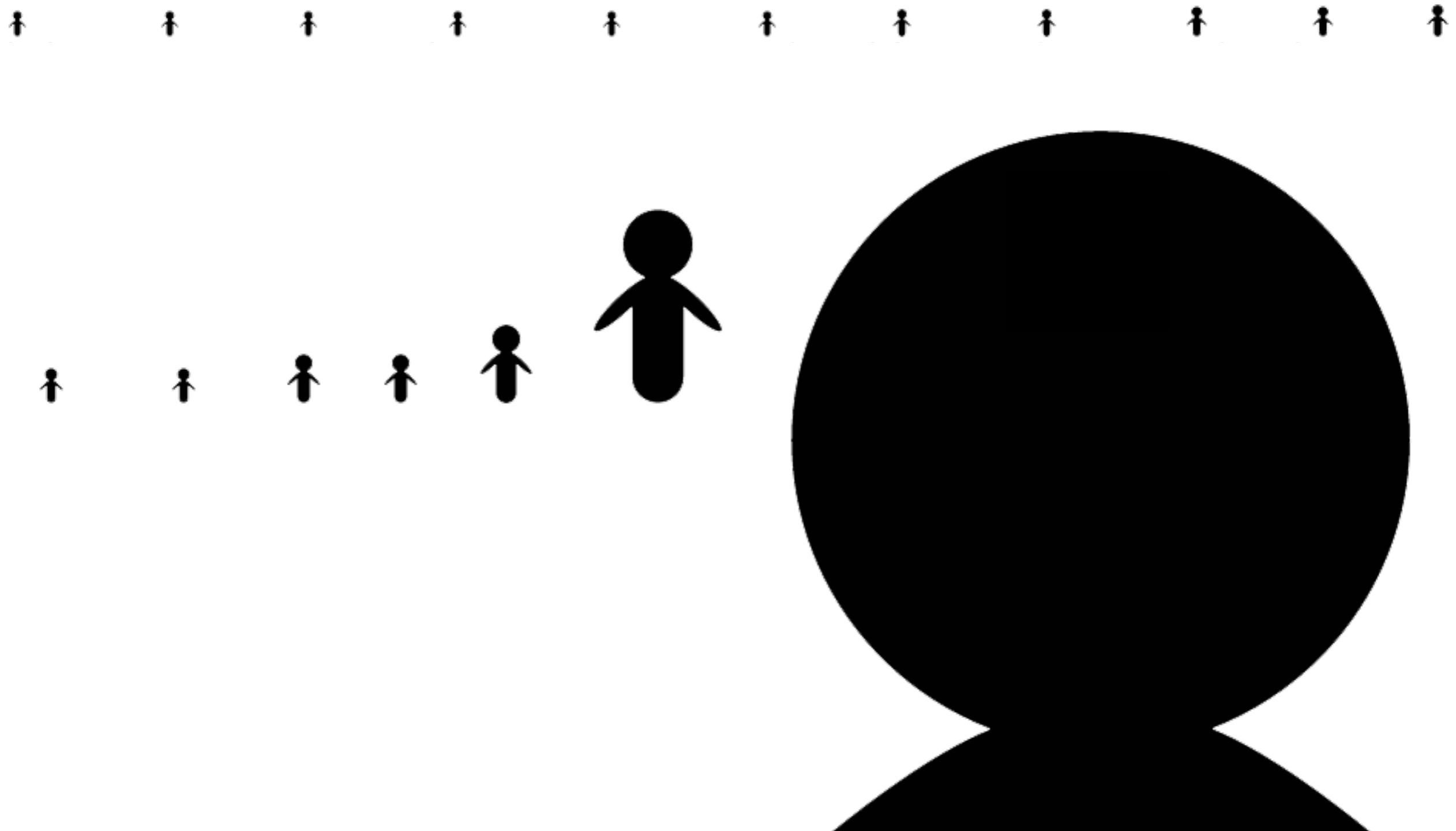
凡事總有例外



How the Media can manipulate our viewpoint

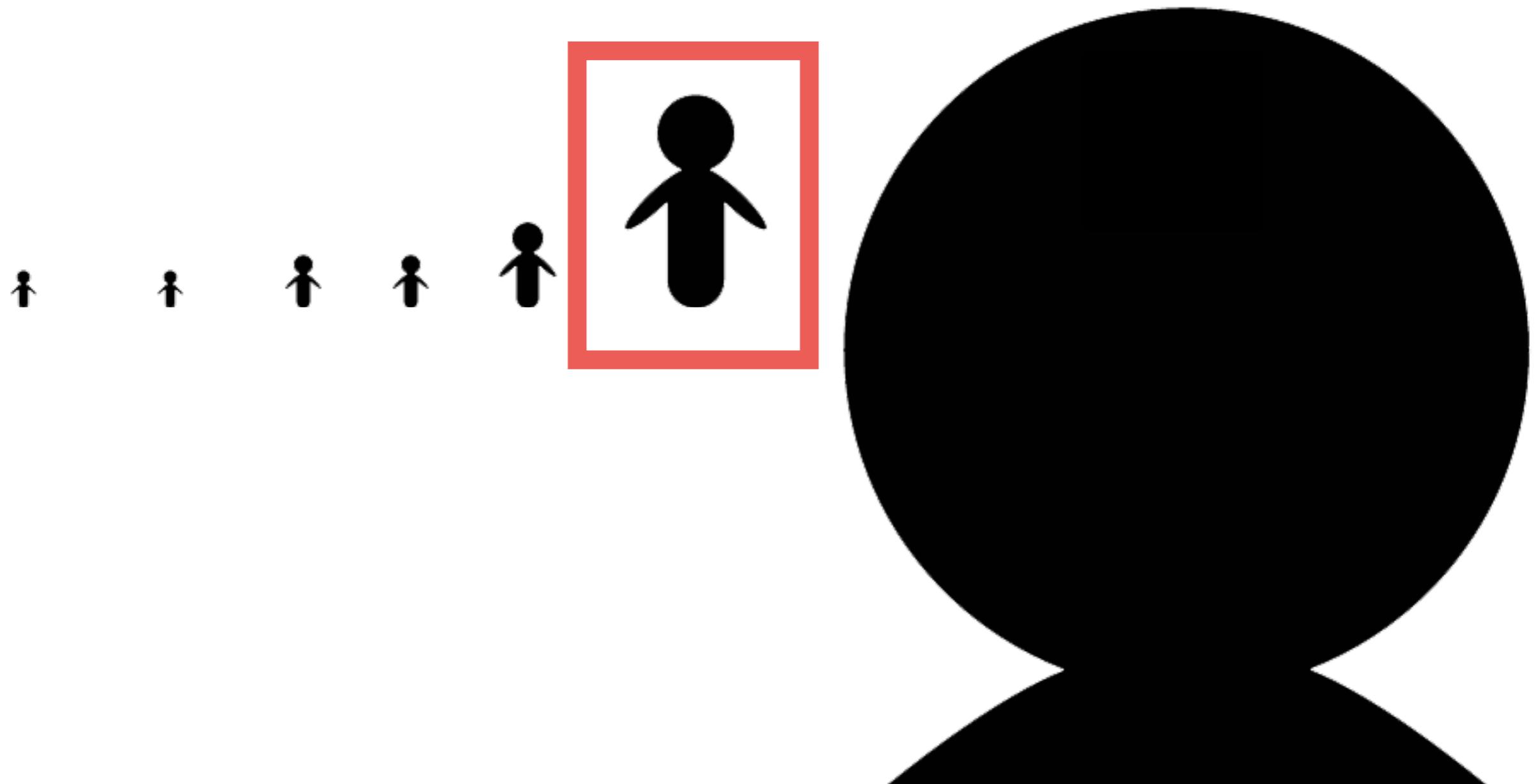
moedict

18 位主要開發者



moedict

18 位主要開發者



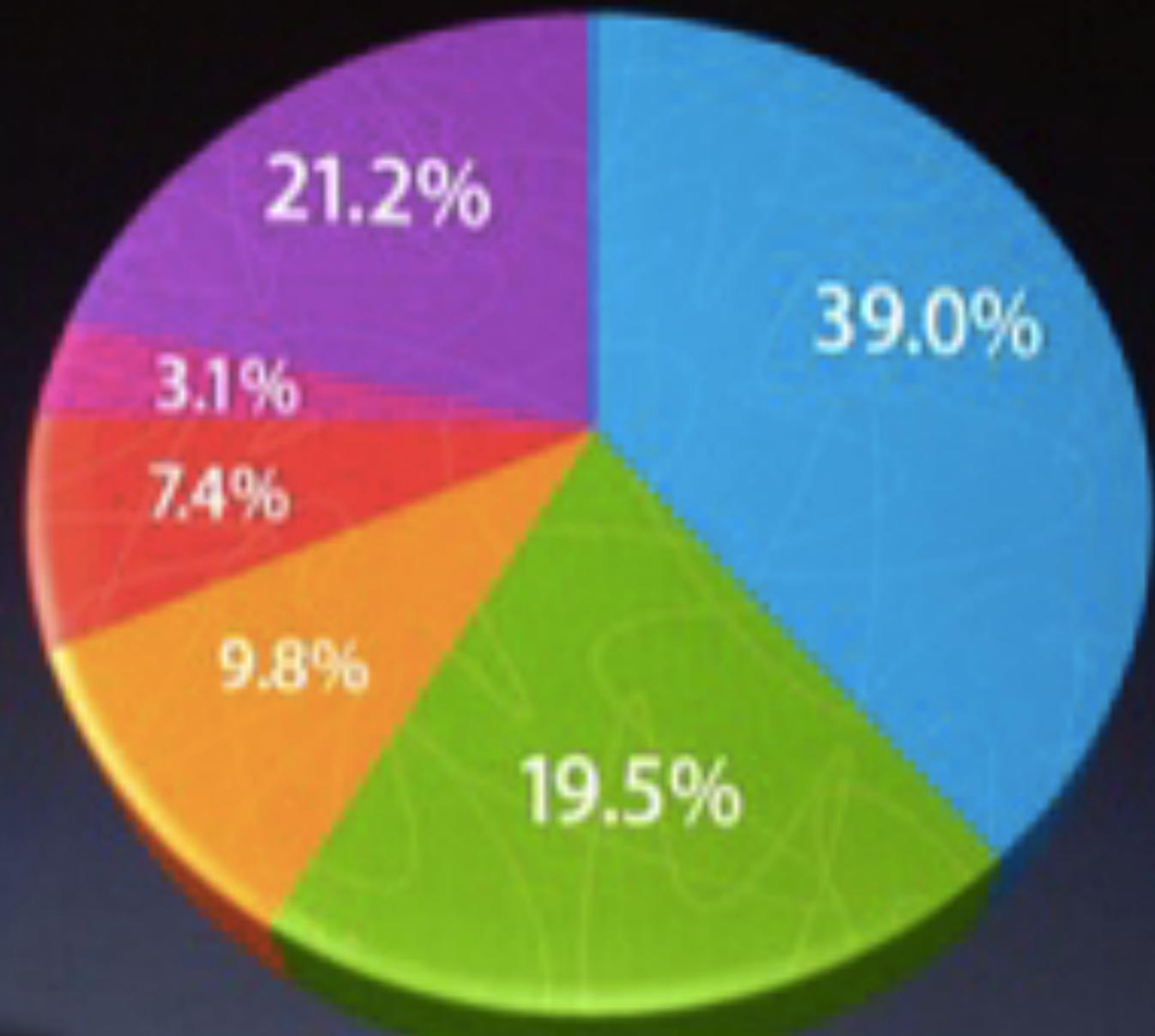
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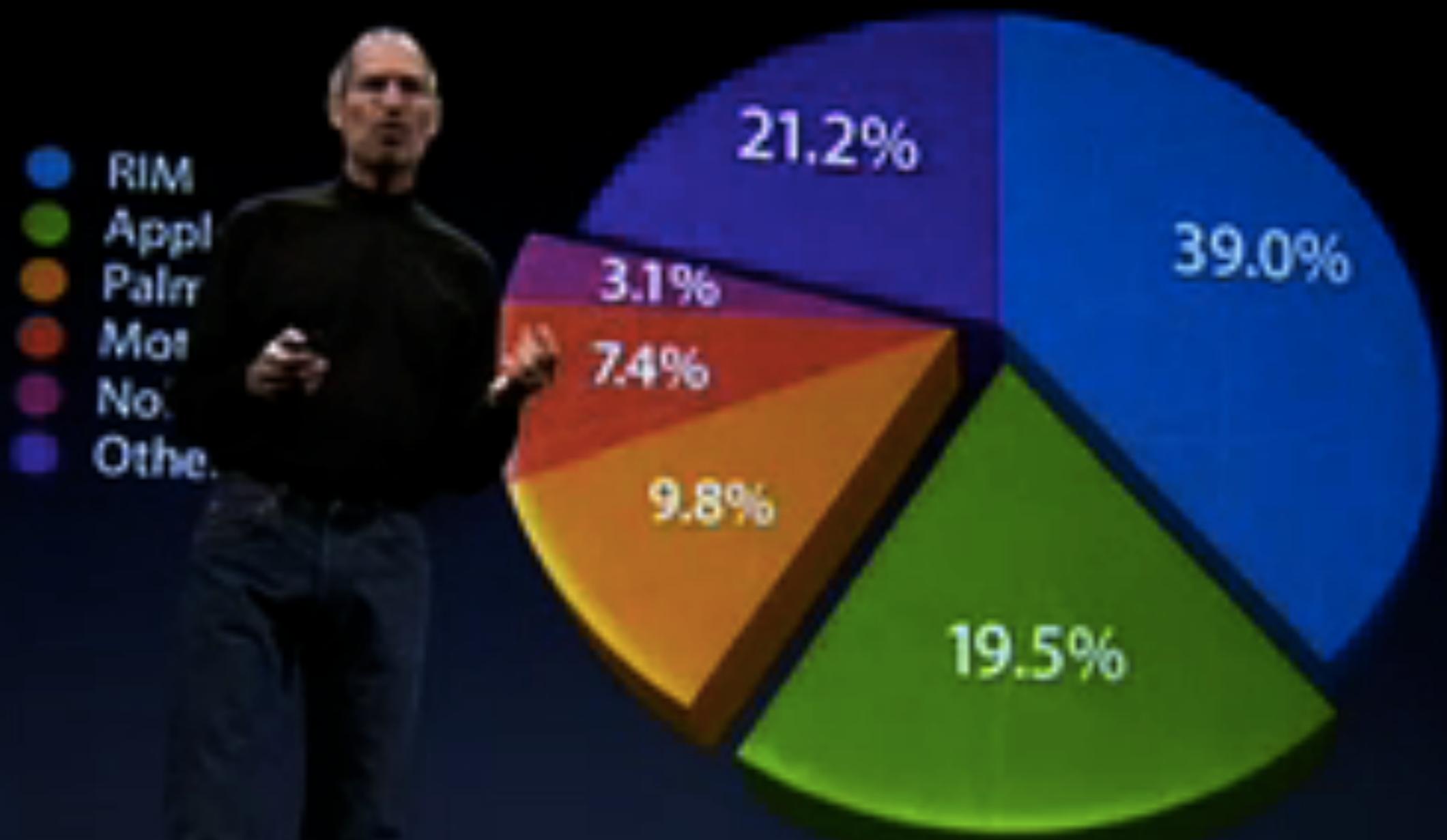
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U.S. SmartPhone Marketshare

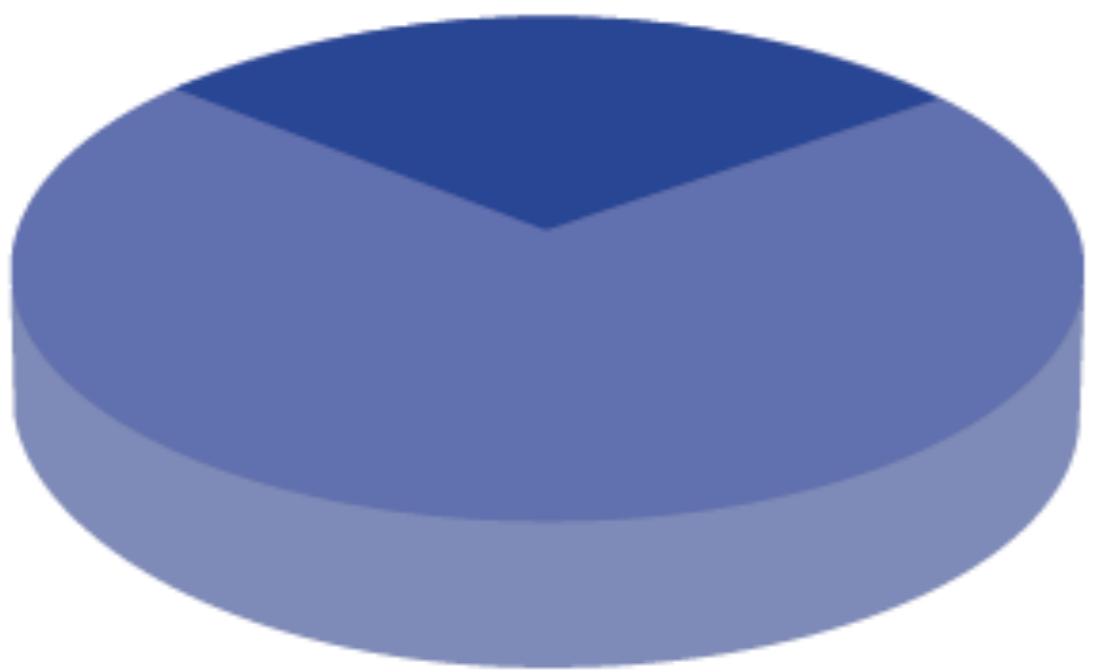
- RIM
- Apple
- Palm
- Motorola
- Nokia
- Other



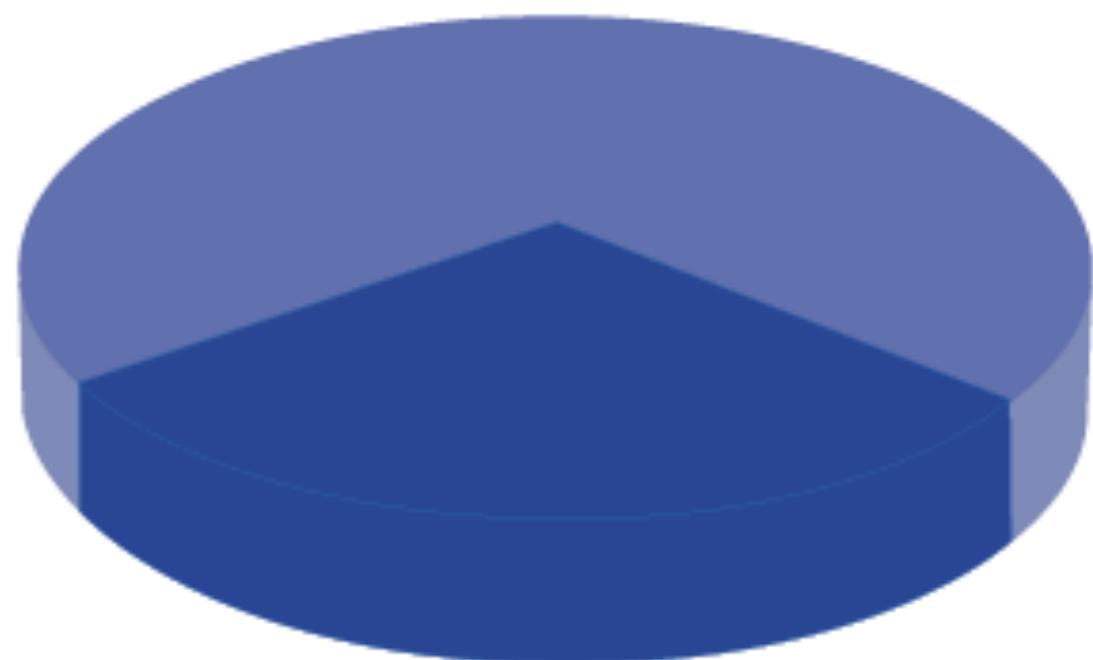
U.S. SmartPhone Marketshare



Source: Gartner for iPhone 3G

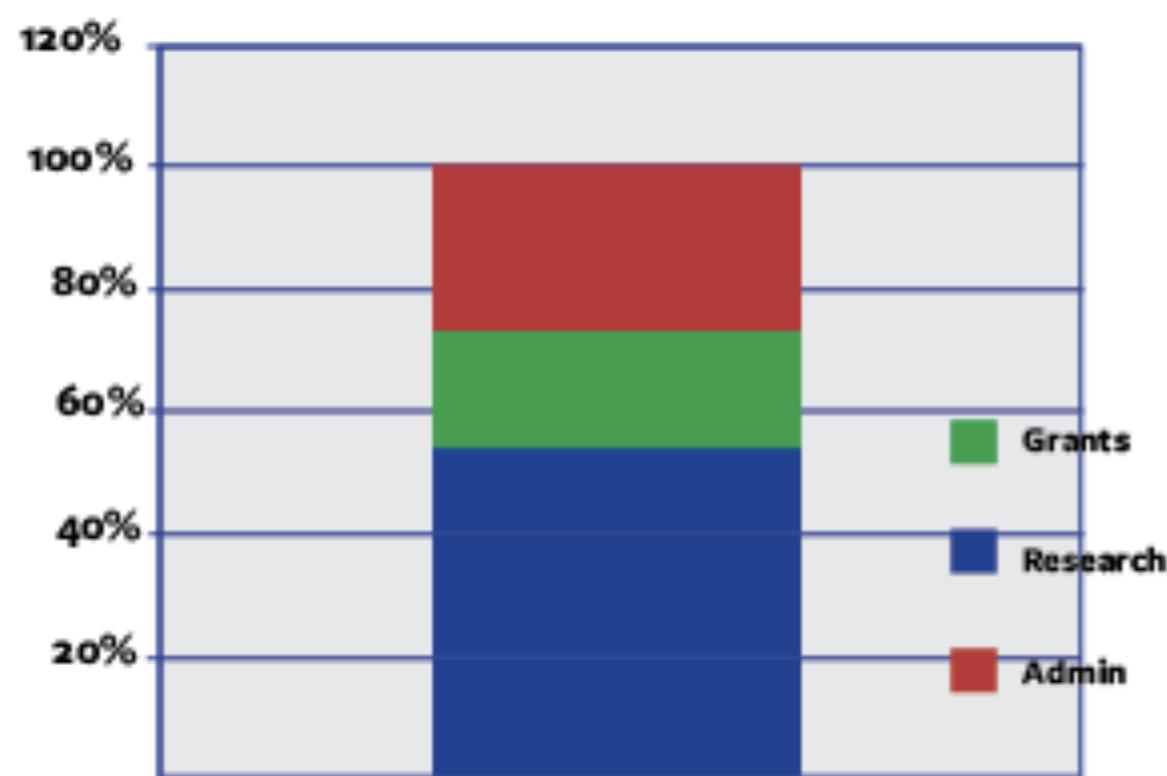


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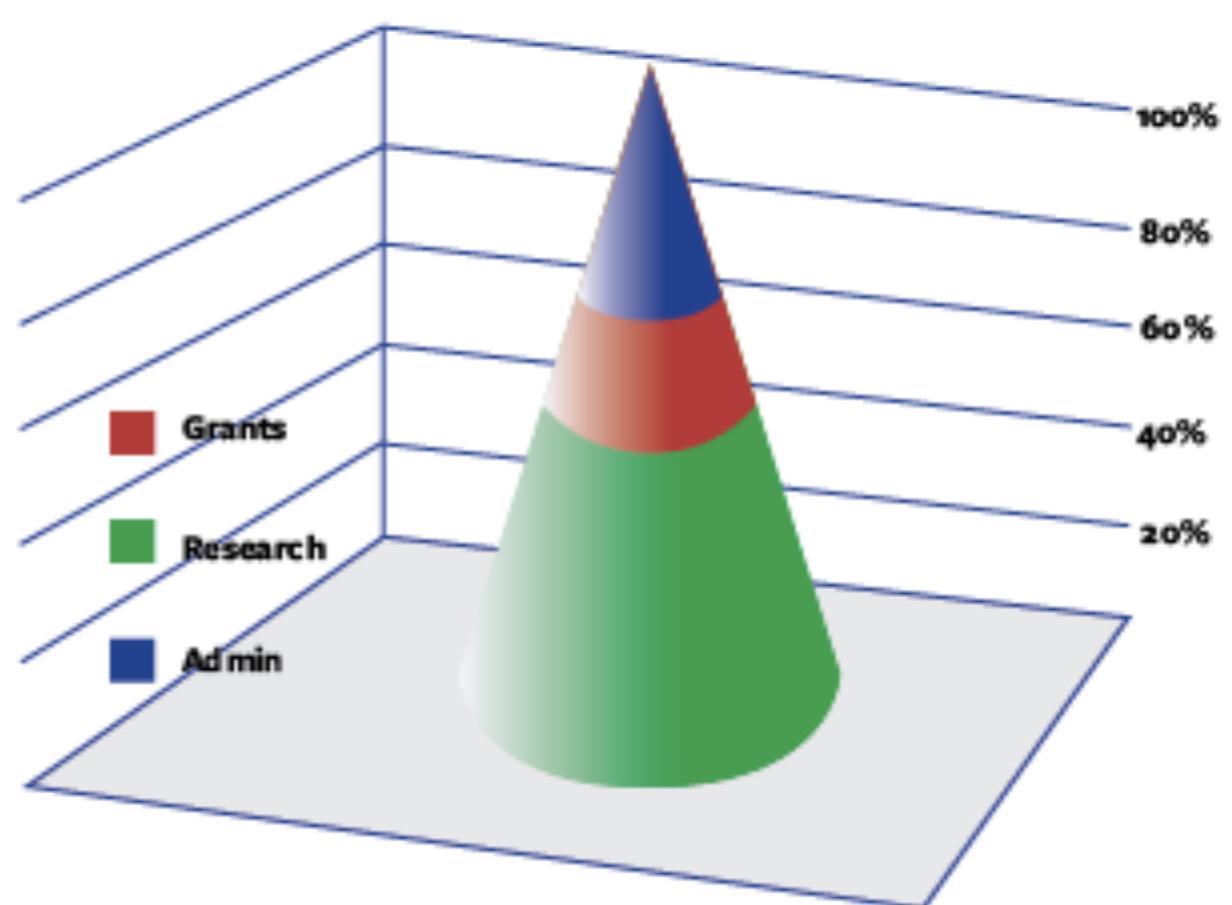


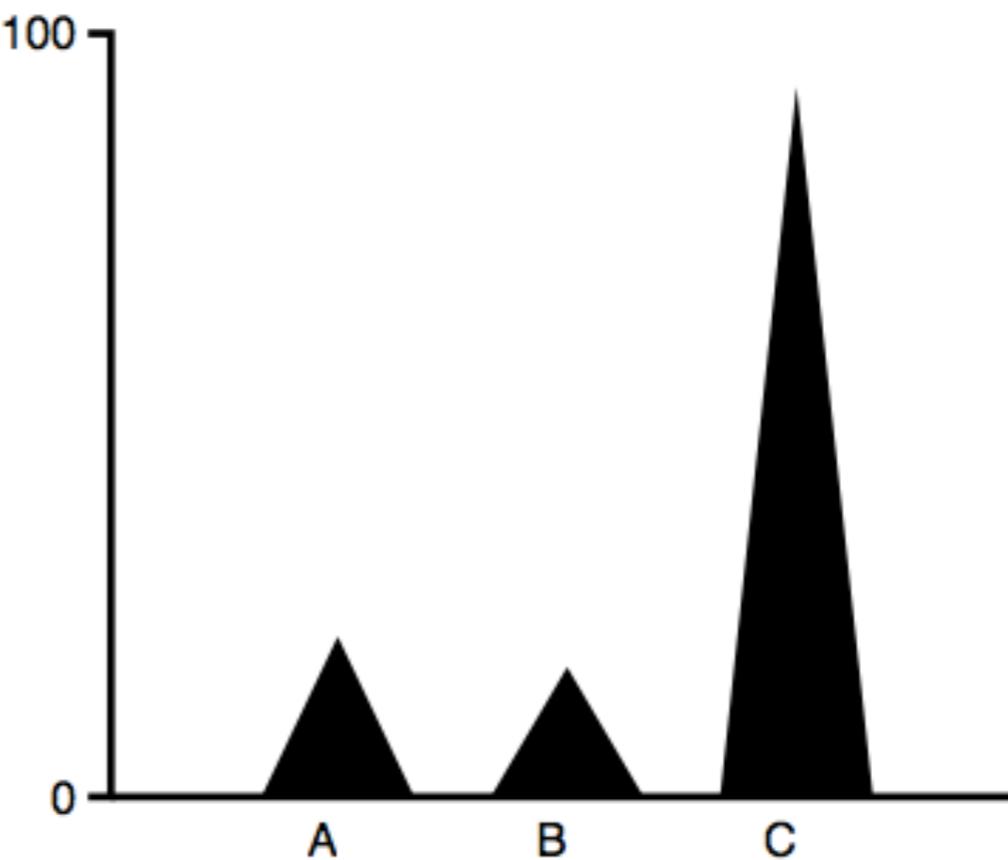
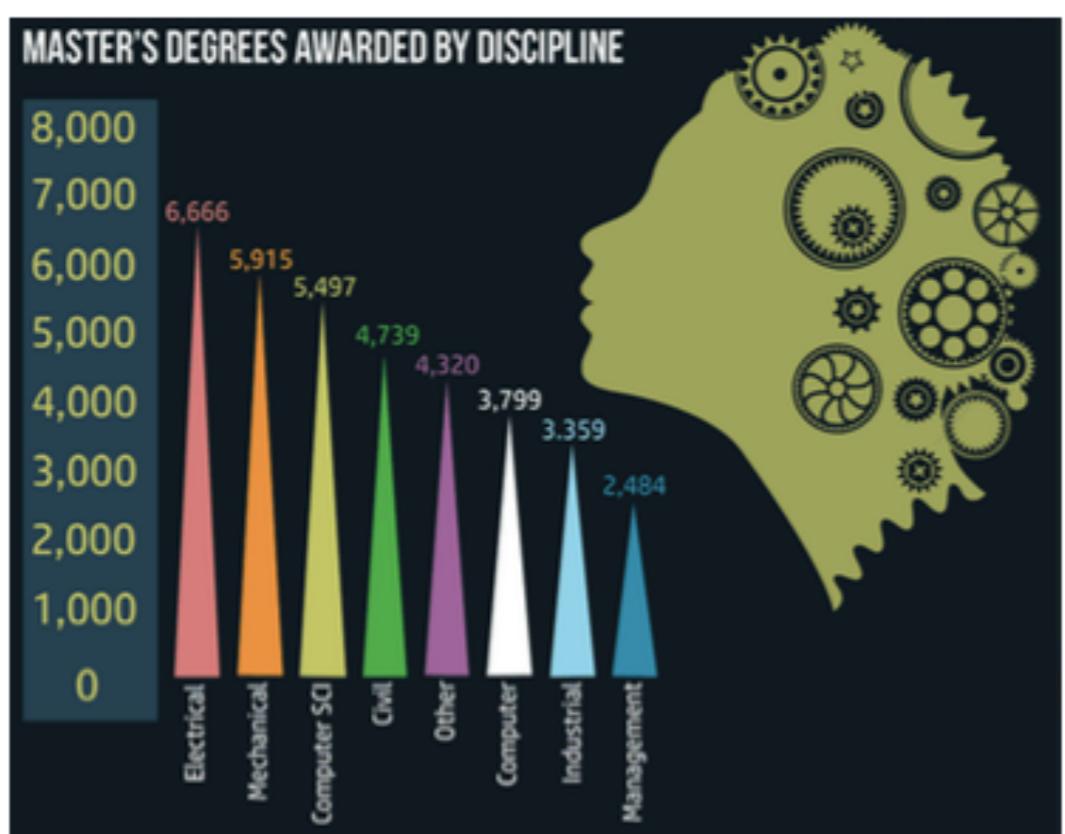
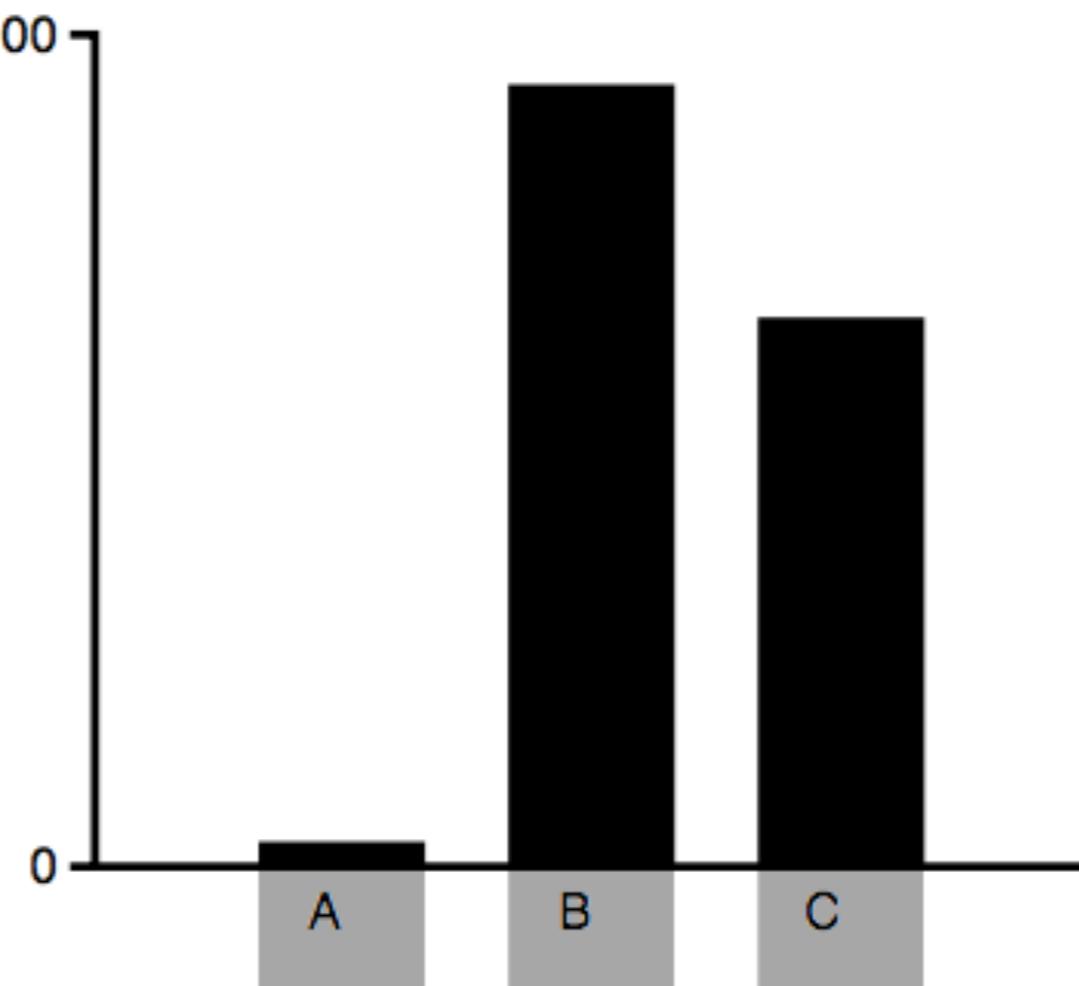
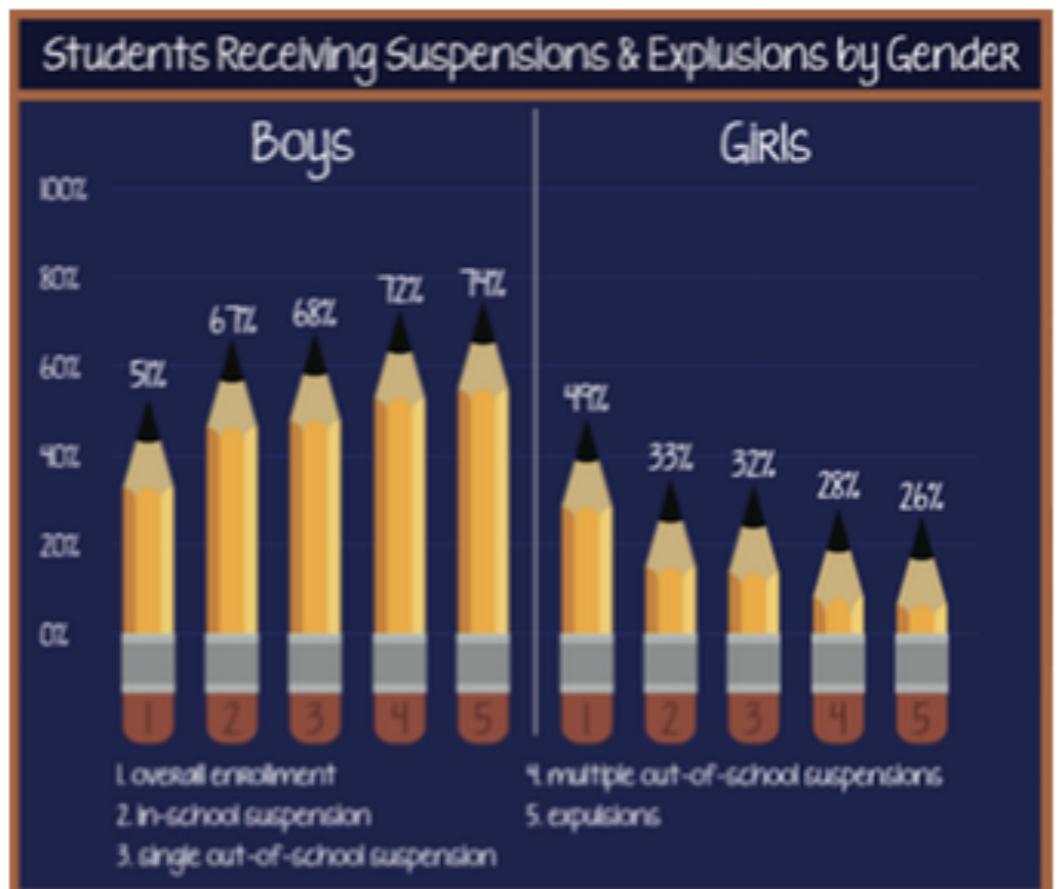
█ Labor █ Other

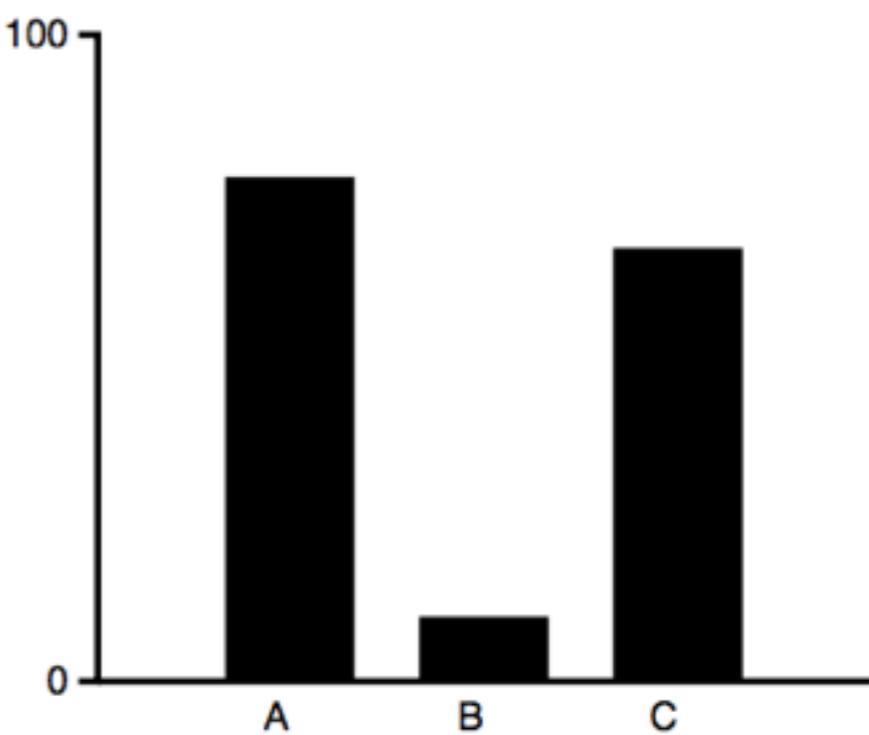
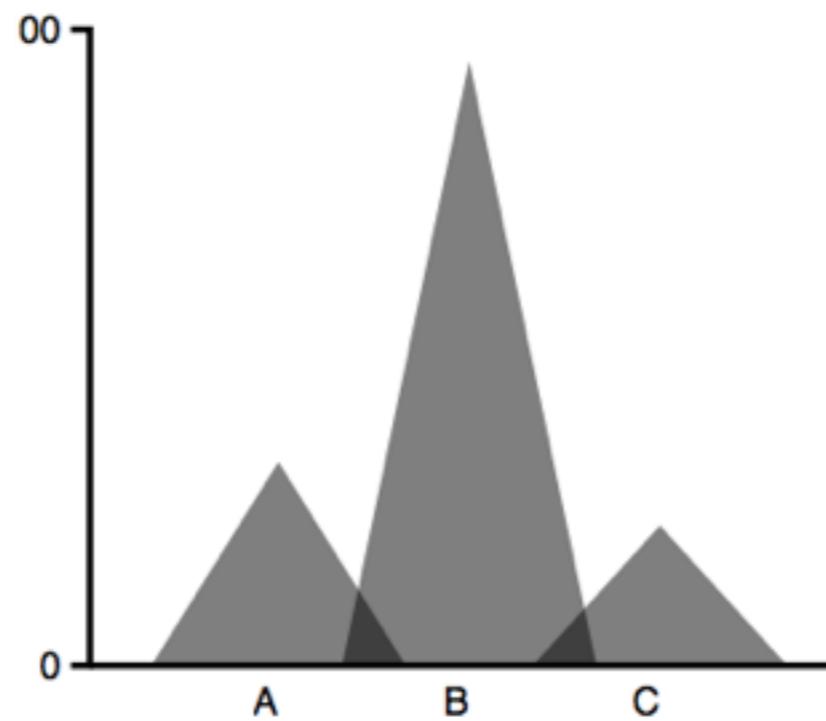
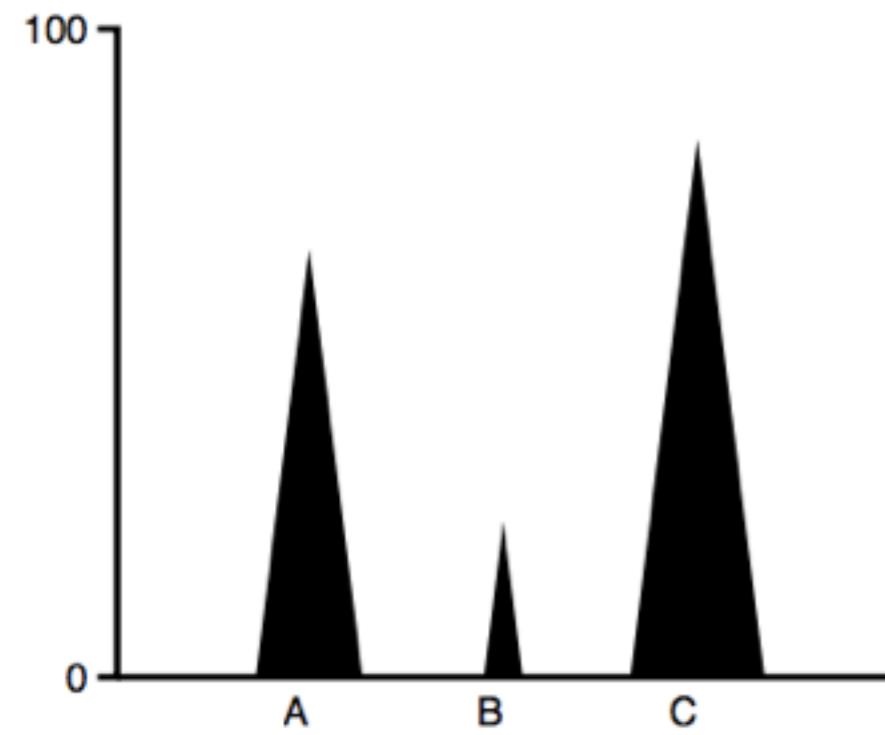
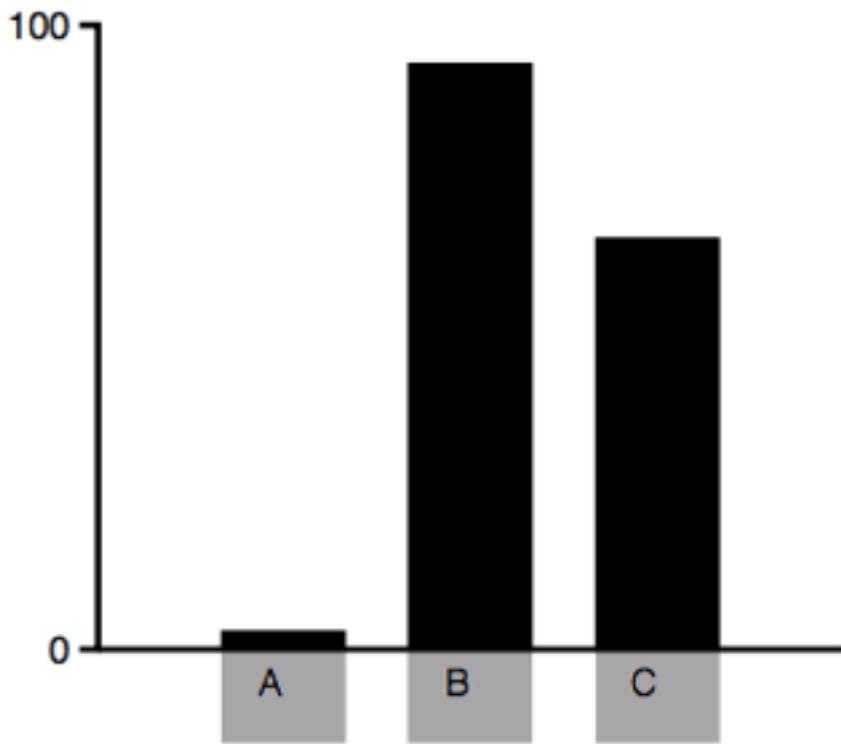
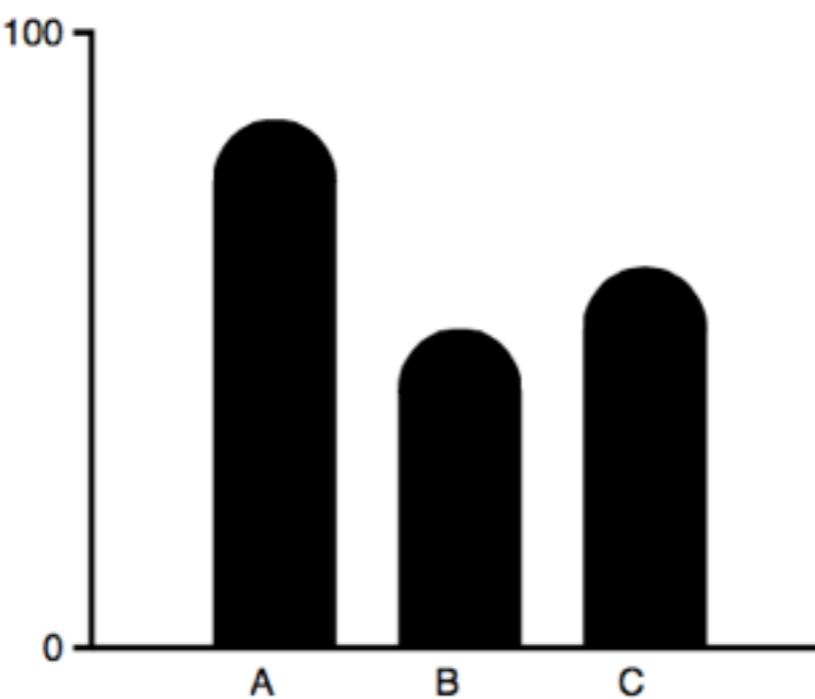
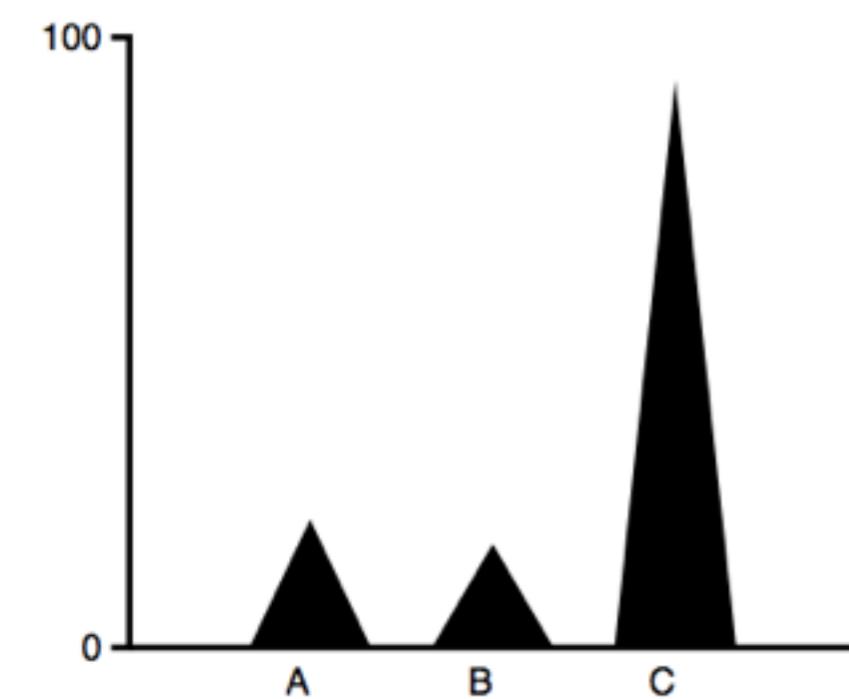
Administration Takes 27% of each dollar

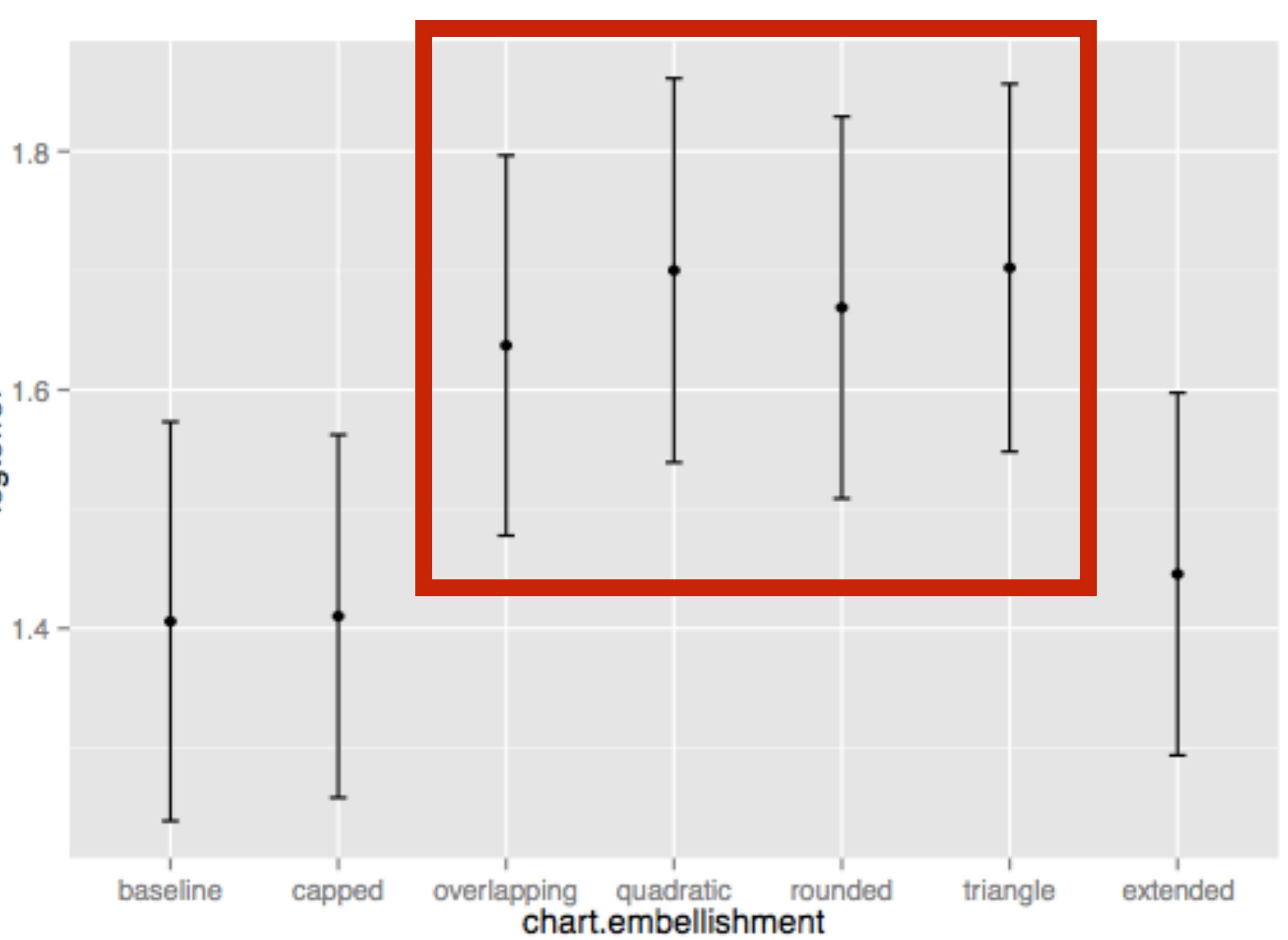


Administration Expenses are Minimal









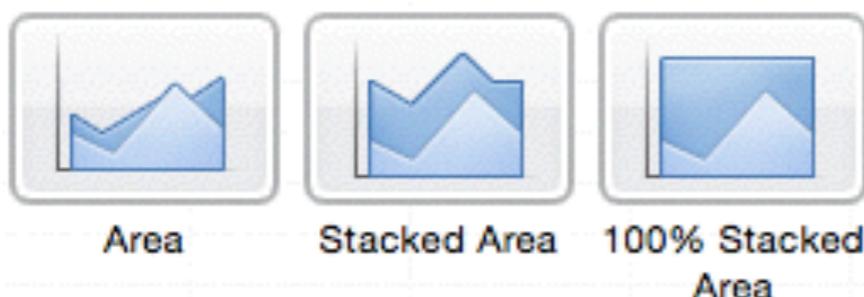
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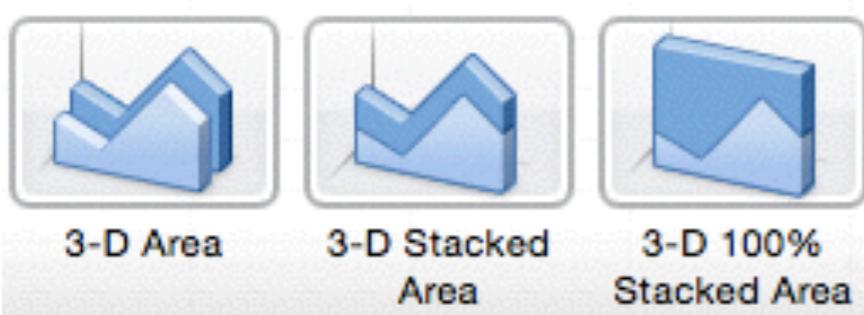
3-D Pie



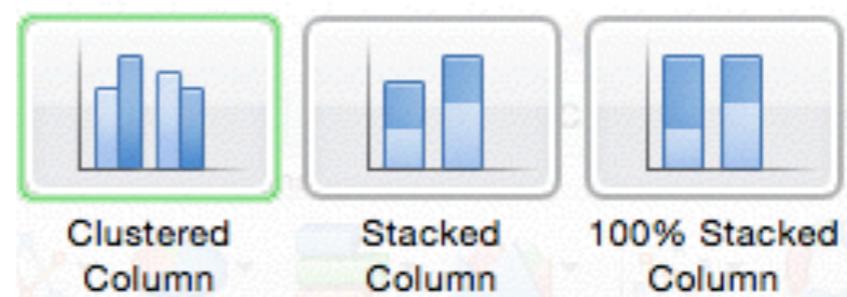
2-D Area



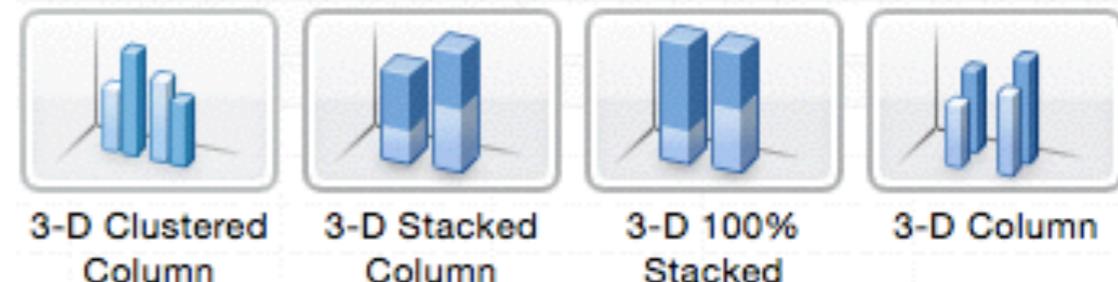
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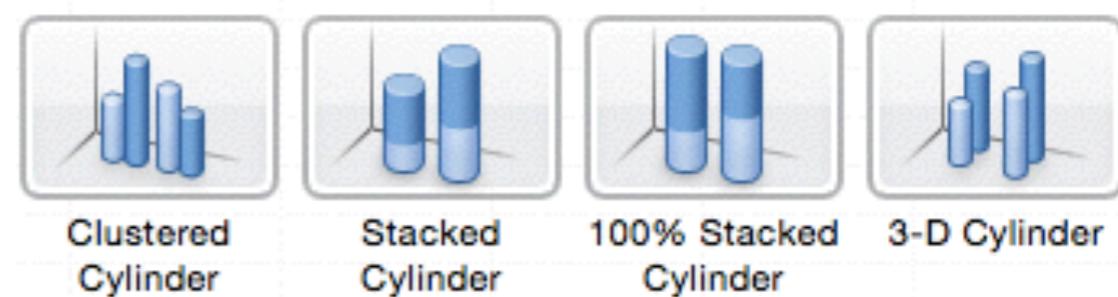
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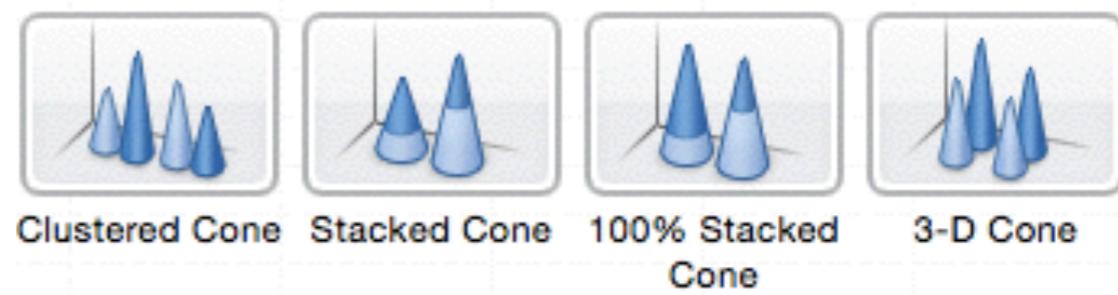
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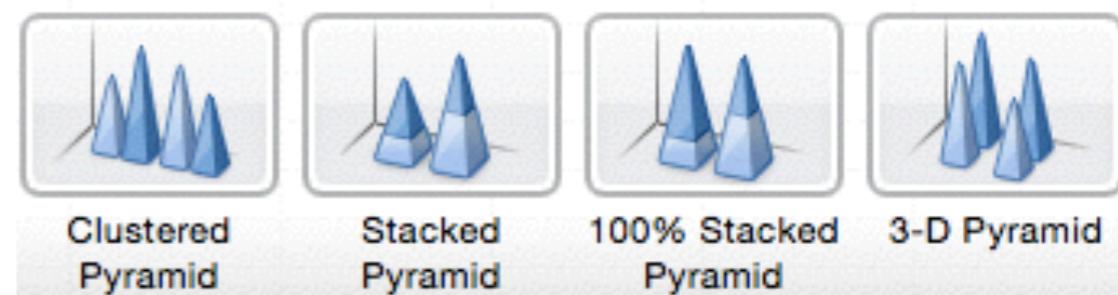
Cylinder



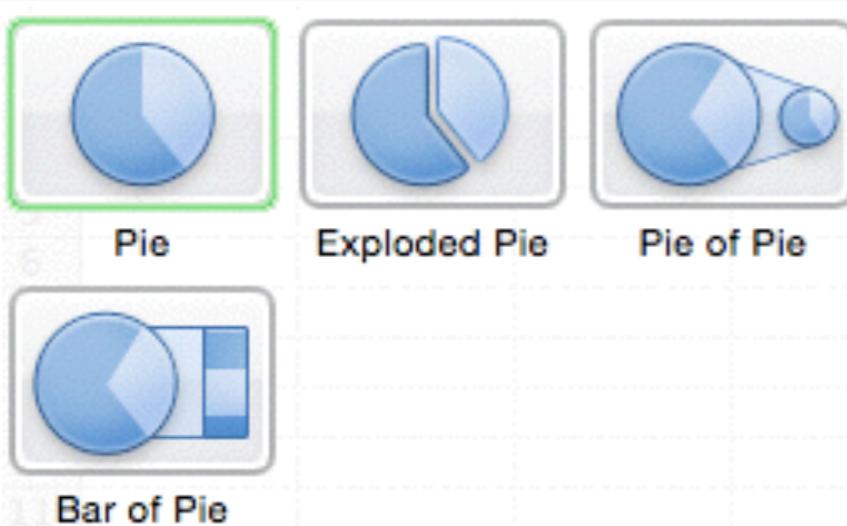
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Pyramid



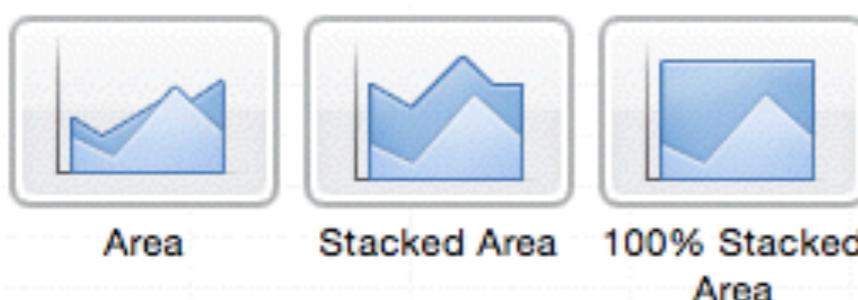
2-D Pie



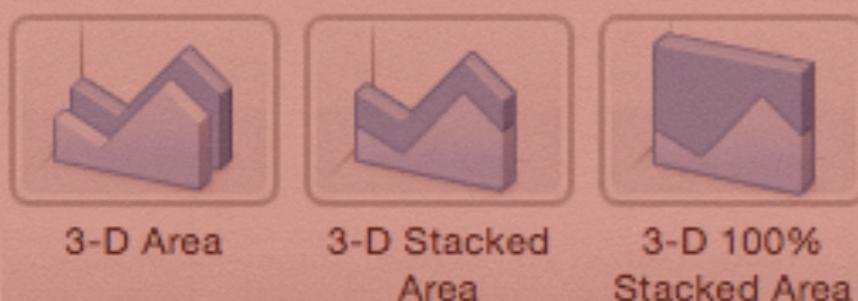
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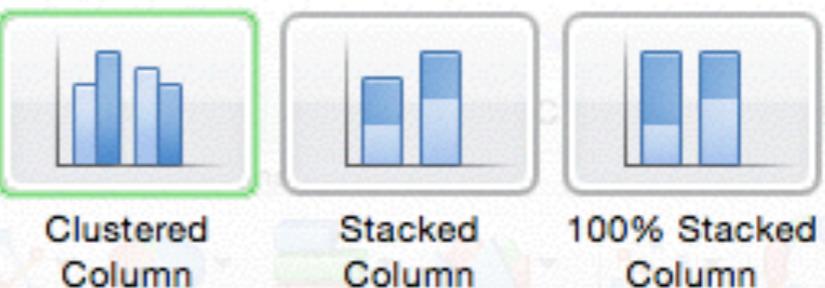
2-D Area



3-D Area



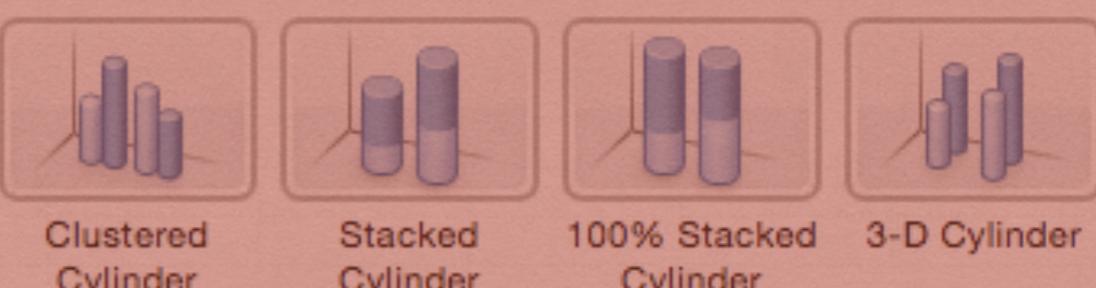
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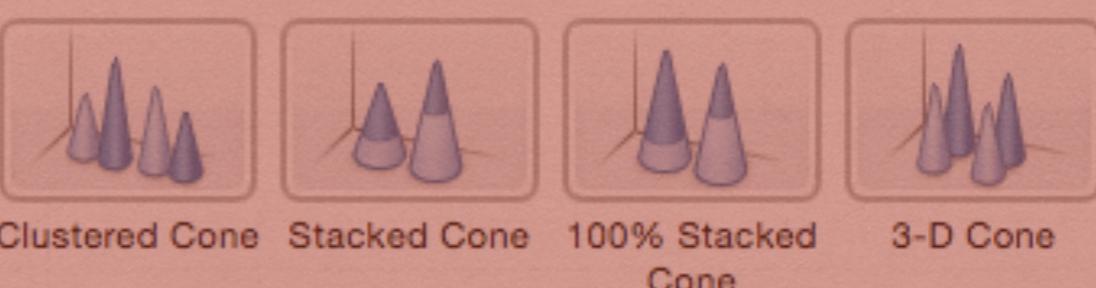
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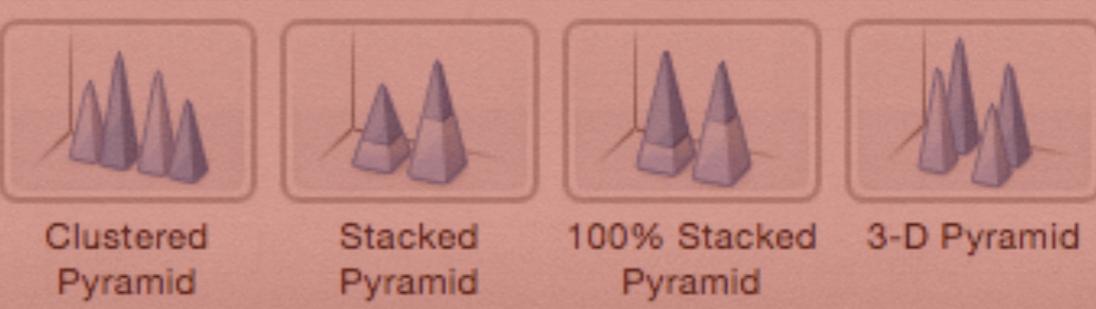
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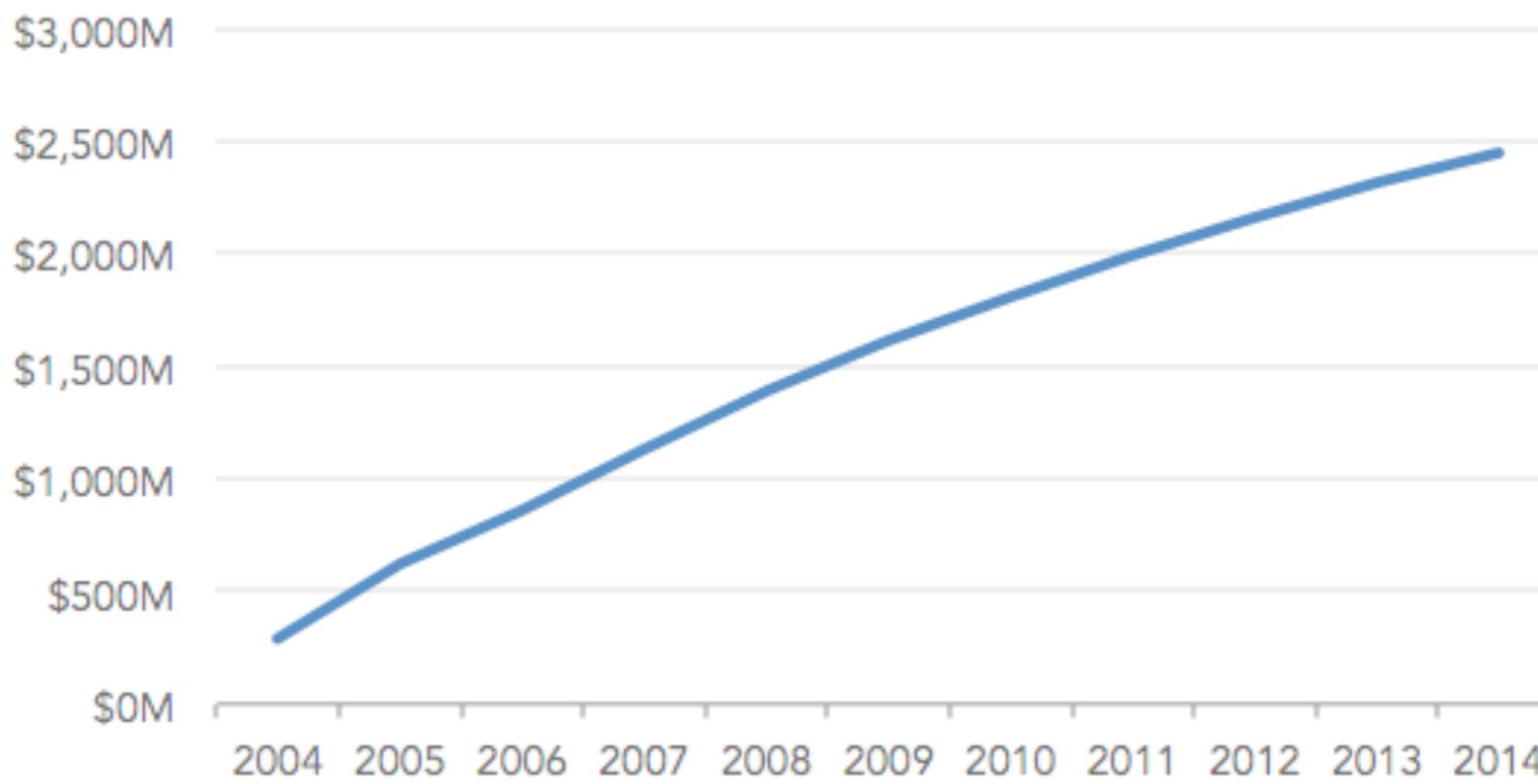
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Pyramid



Cumulative Annual Revenue

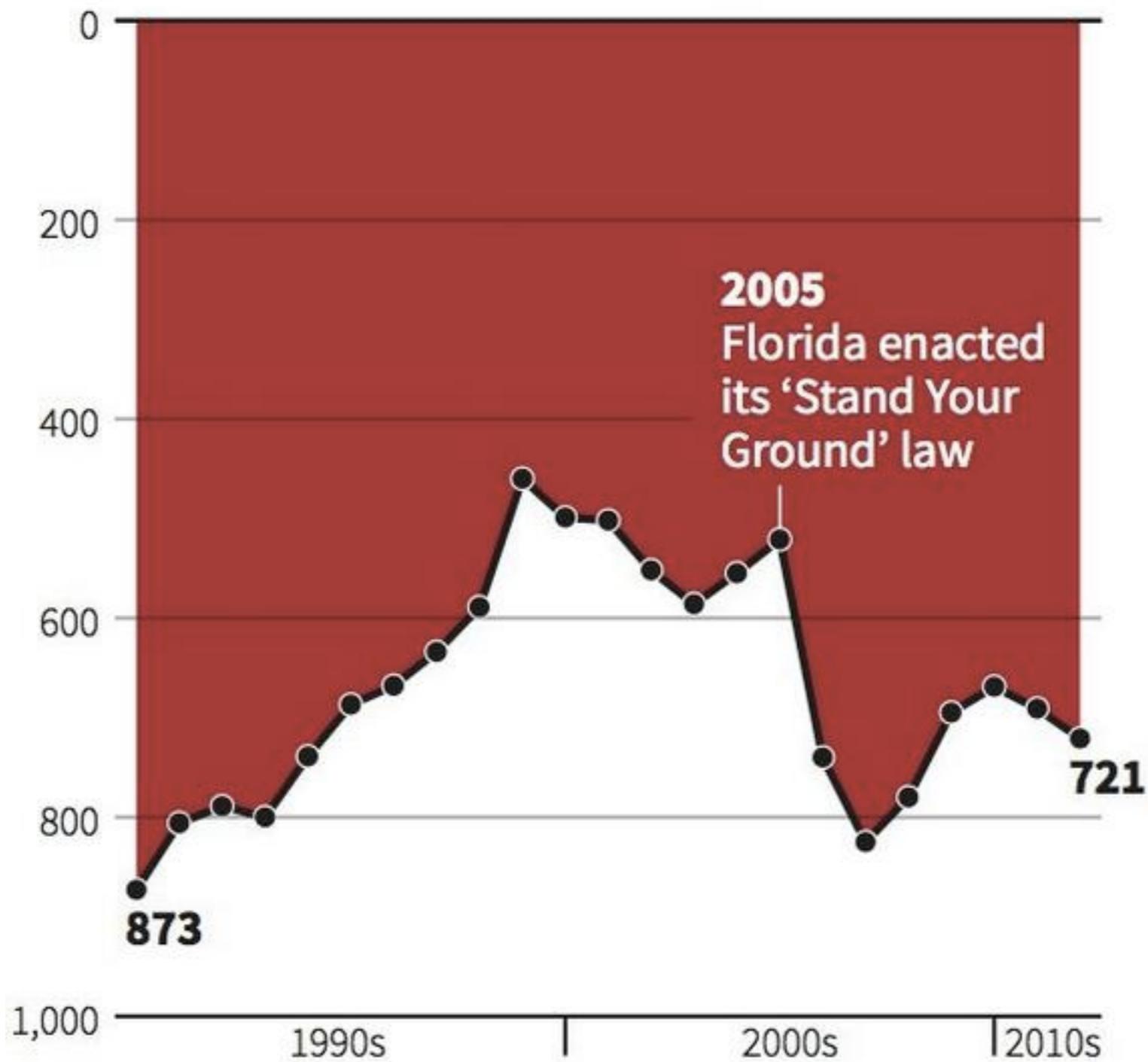


Annual Revenue



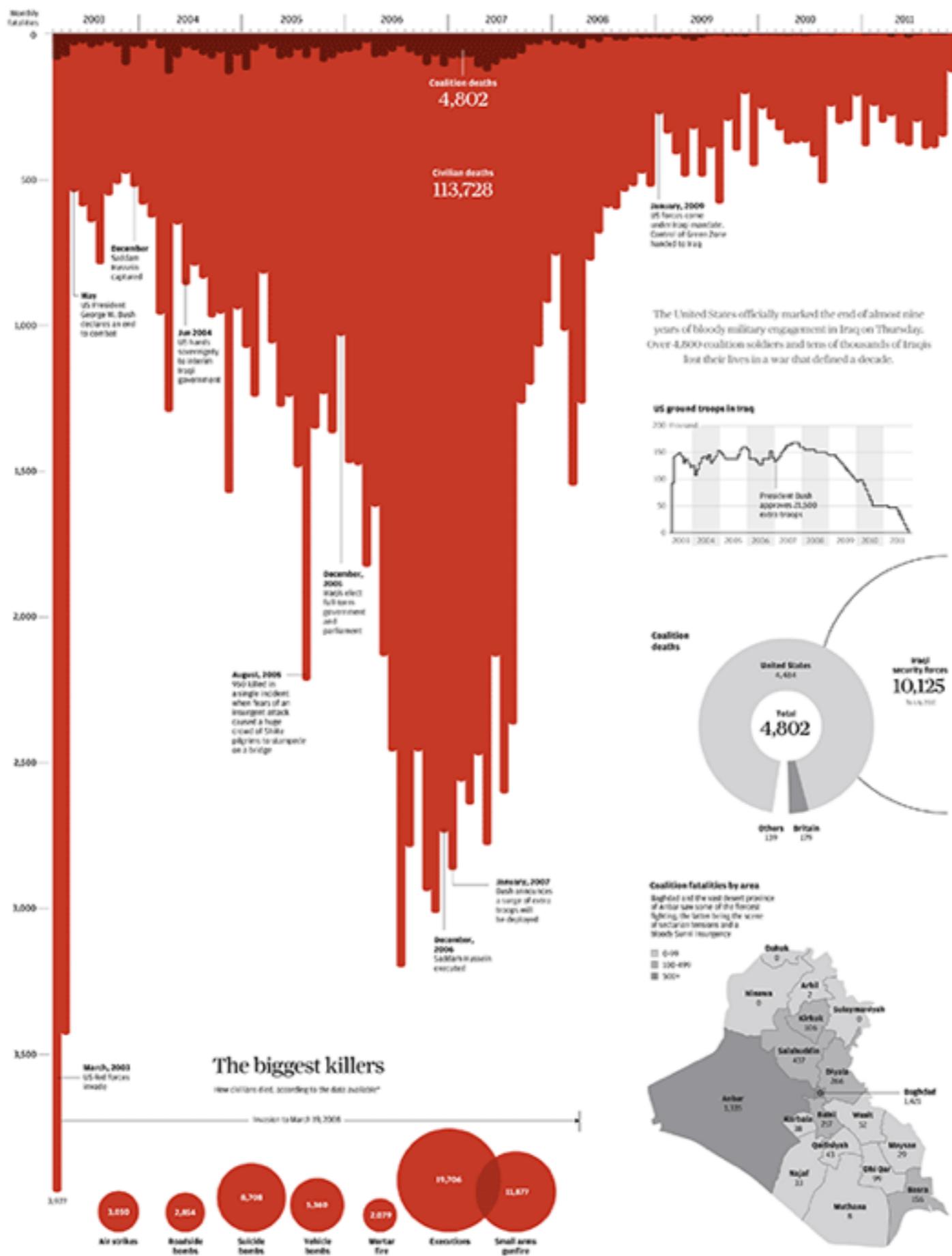
Gun deaths in Florida

Number of murders committed using firearms

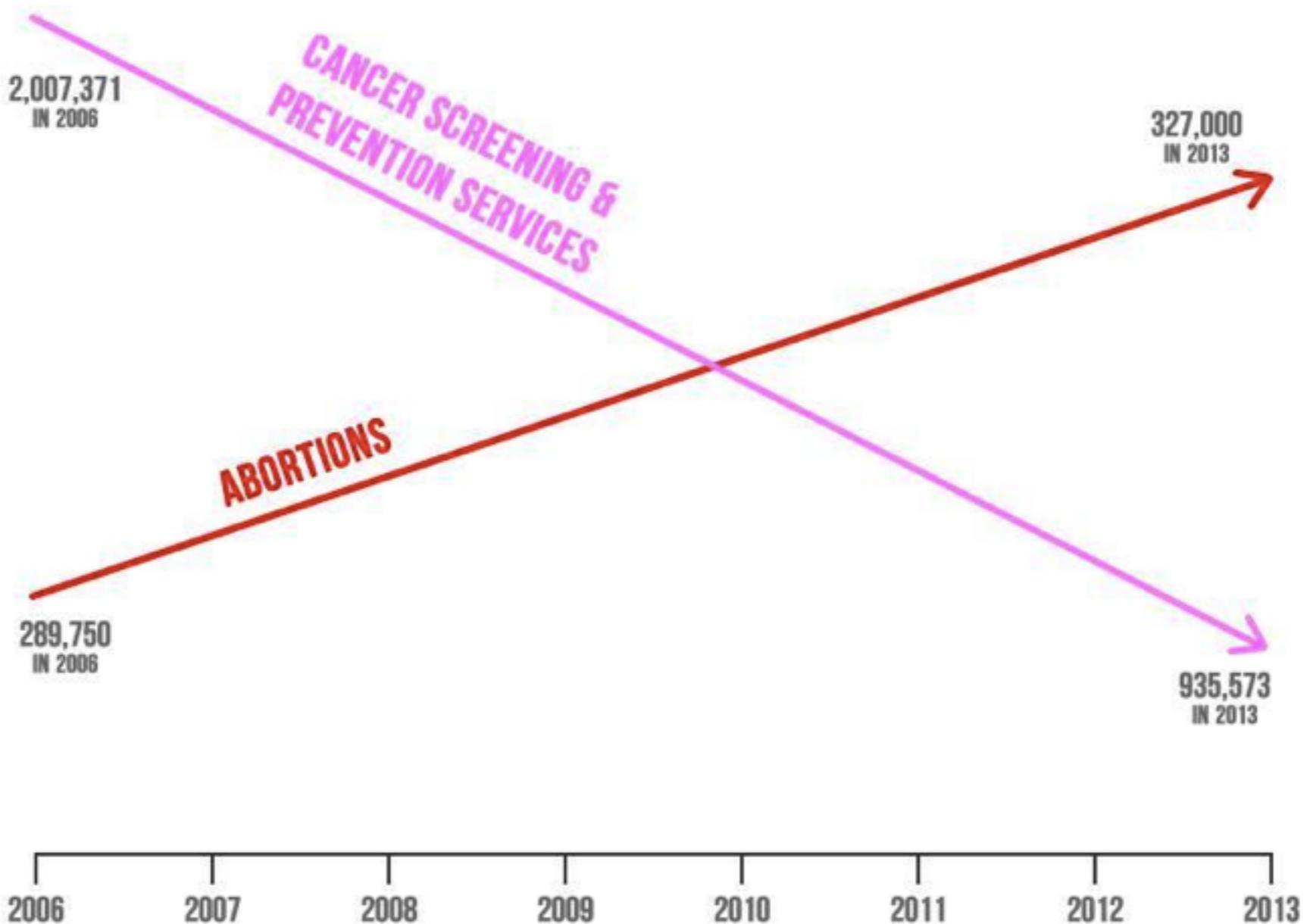


Source: Florida Department of Law Enforcement

Iraq's bloody toll

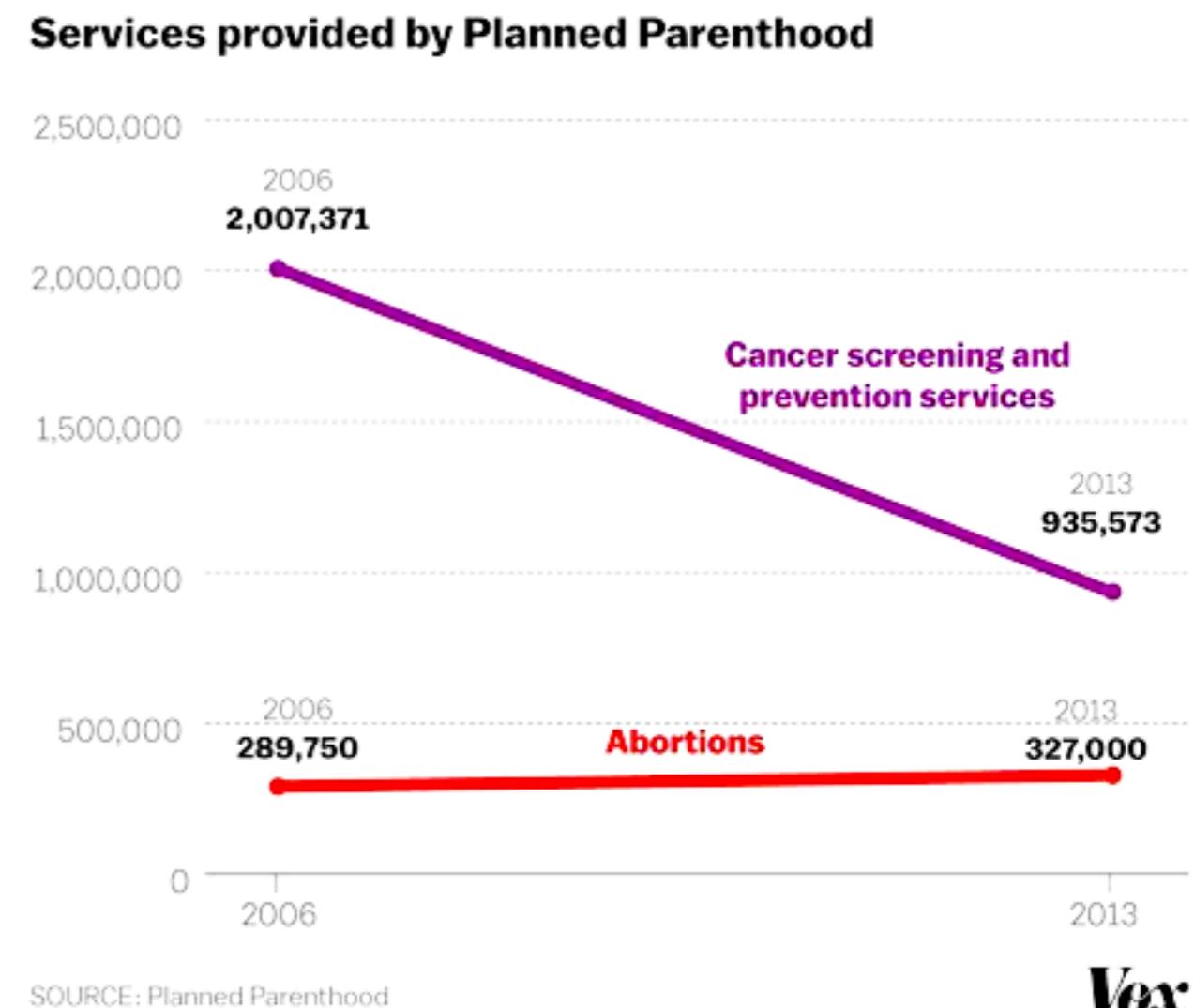
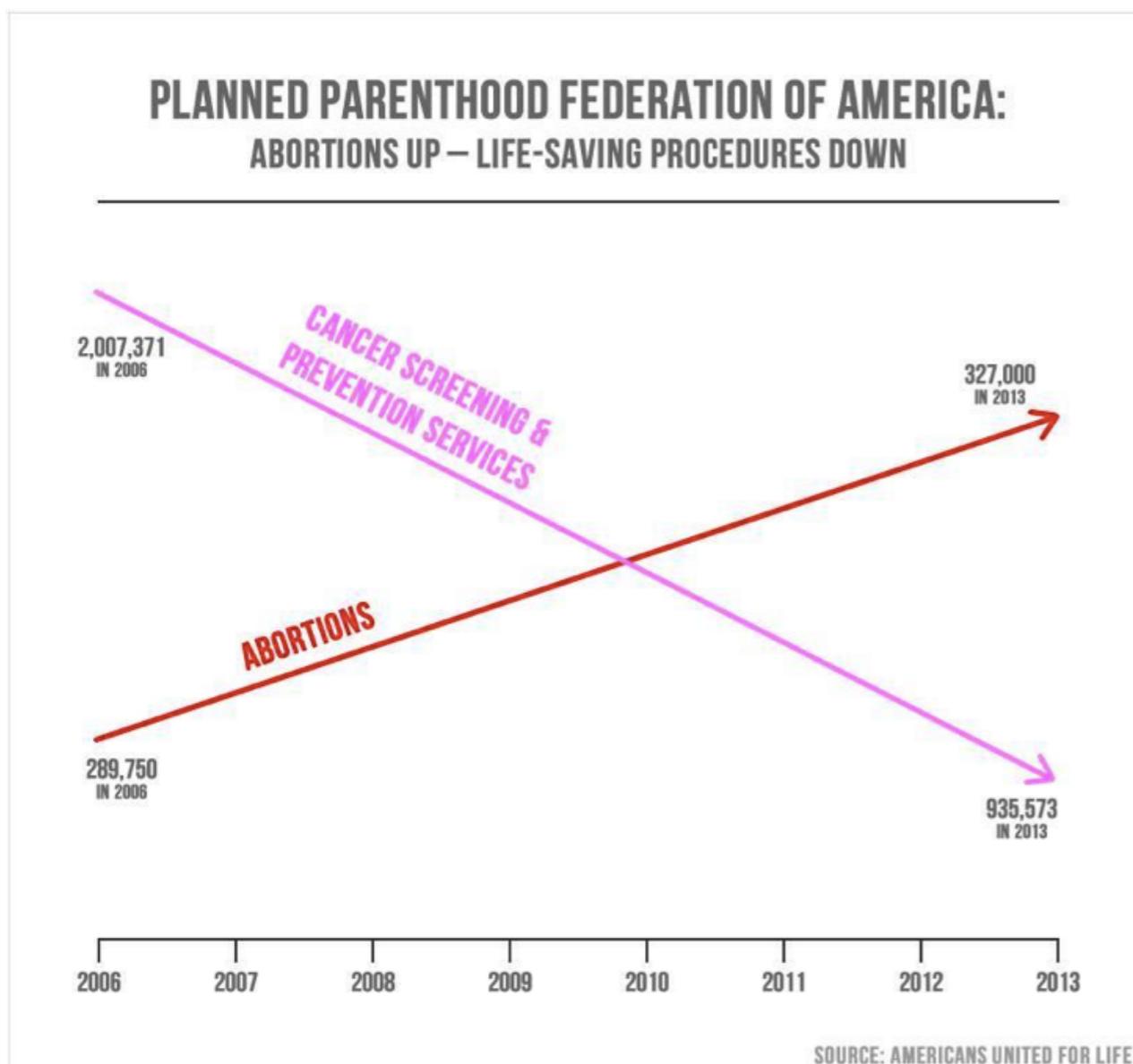


PLANNED PARENTHOOD FEDERATION OF AMERICA: ABORTIONS UP – LIFE-SAVING PROCEDURES DOWN



SOURCE: AMERICANS UNITED FOR LIFE

proposed **actually**



2015.09 shown by Republican to the congress to refund Planned Parenthood

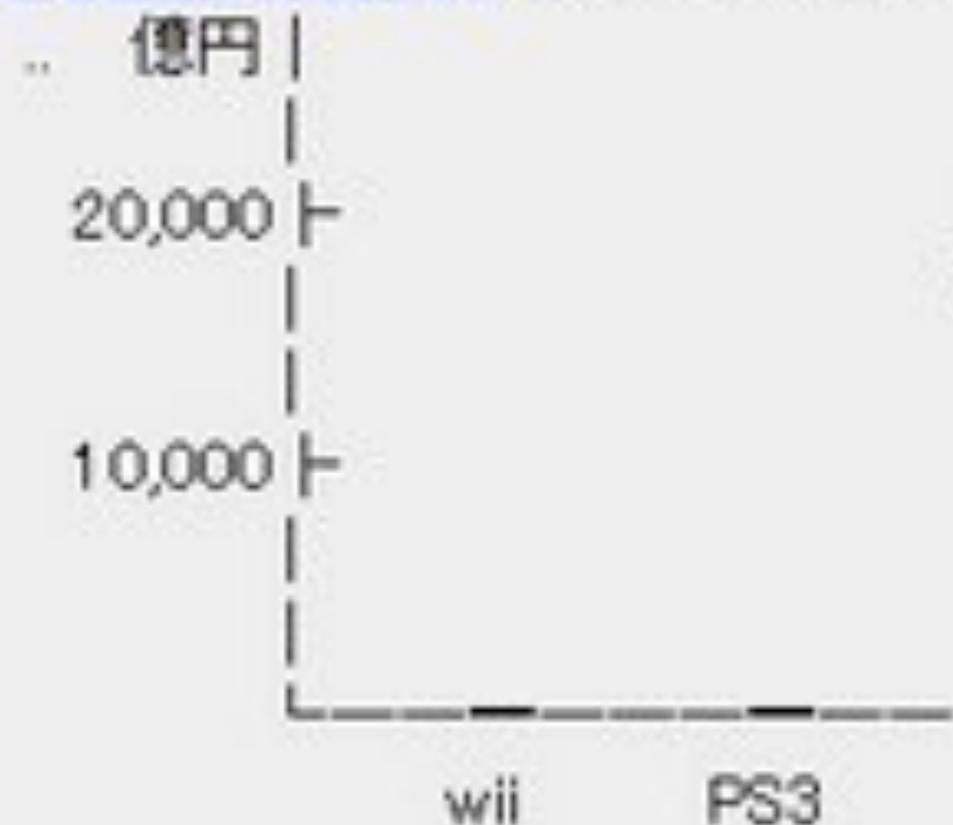
354 : [水先案名無い人](#) : 2006/05/30(火) 12:27:37 ID:R+vmsWjk0



以圖表加以比較很容易看出
Wii更令人有昂貴的感覺

#408516

50 : [水先案名無い人](#) : 2006/05/29(月) 14:30:41 ID:1Hpt h2Cx0



以圖表來比較並沒有明顯的差異
或可以說Wii顯得更昂貴

#408516

Global Mean Sea Level Rise (mm)

CU Sea Level Research Group, University of Colorado

"Over the past two years, sea levels have not increased at all – actually, they show a slight drop. Should we not be told that this is much better than expected?" - Björn Lomborg, "Let the data speak for itself" The Guardian, October 14, 2008.

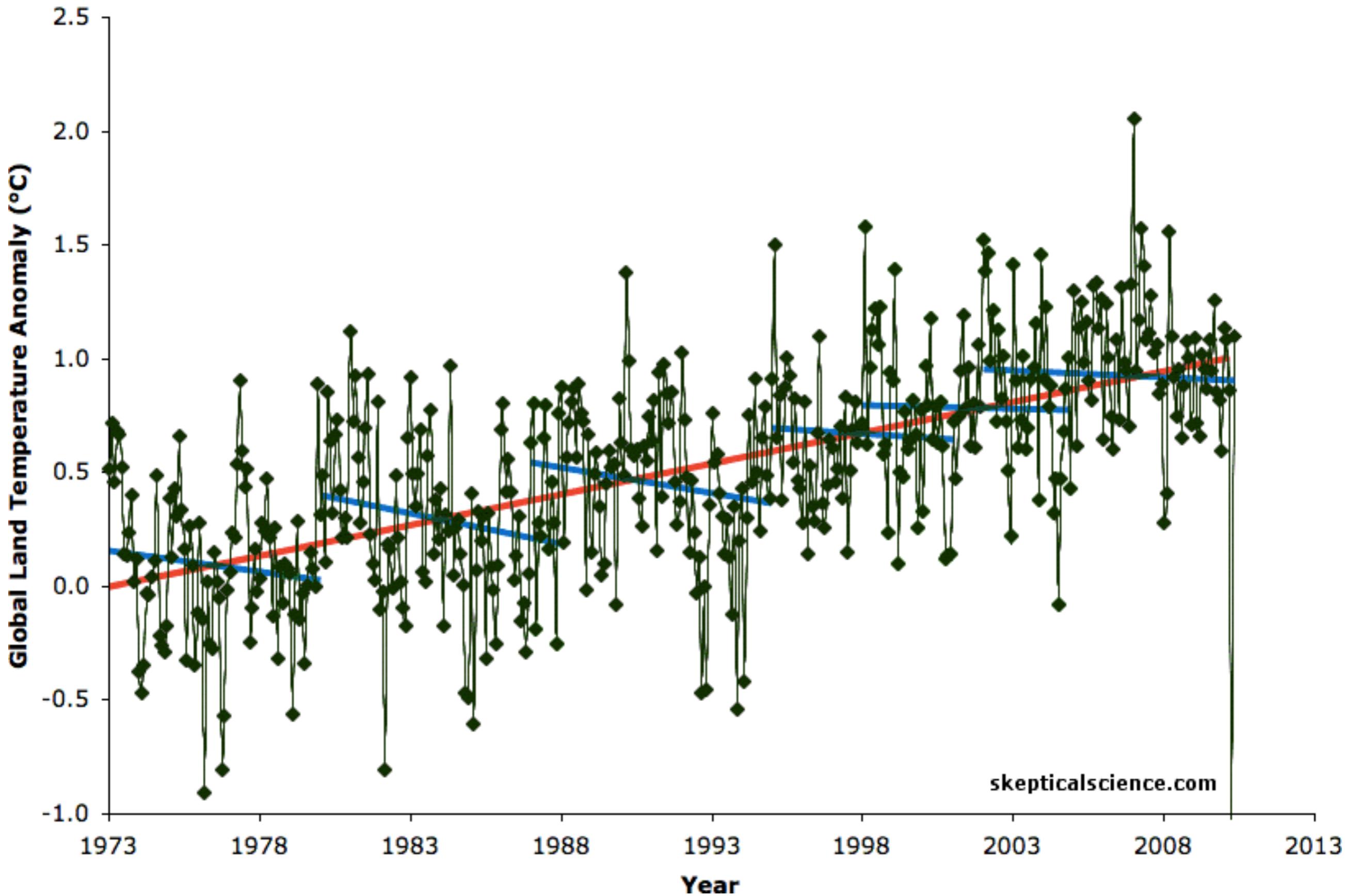


CREDIT: GREG LADEN



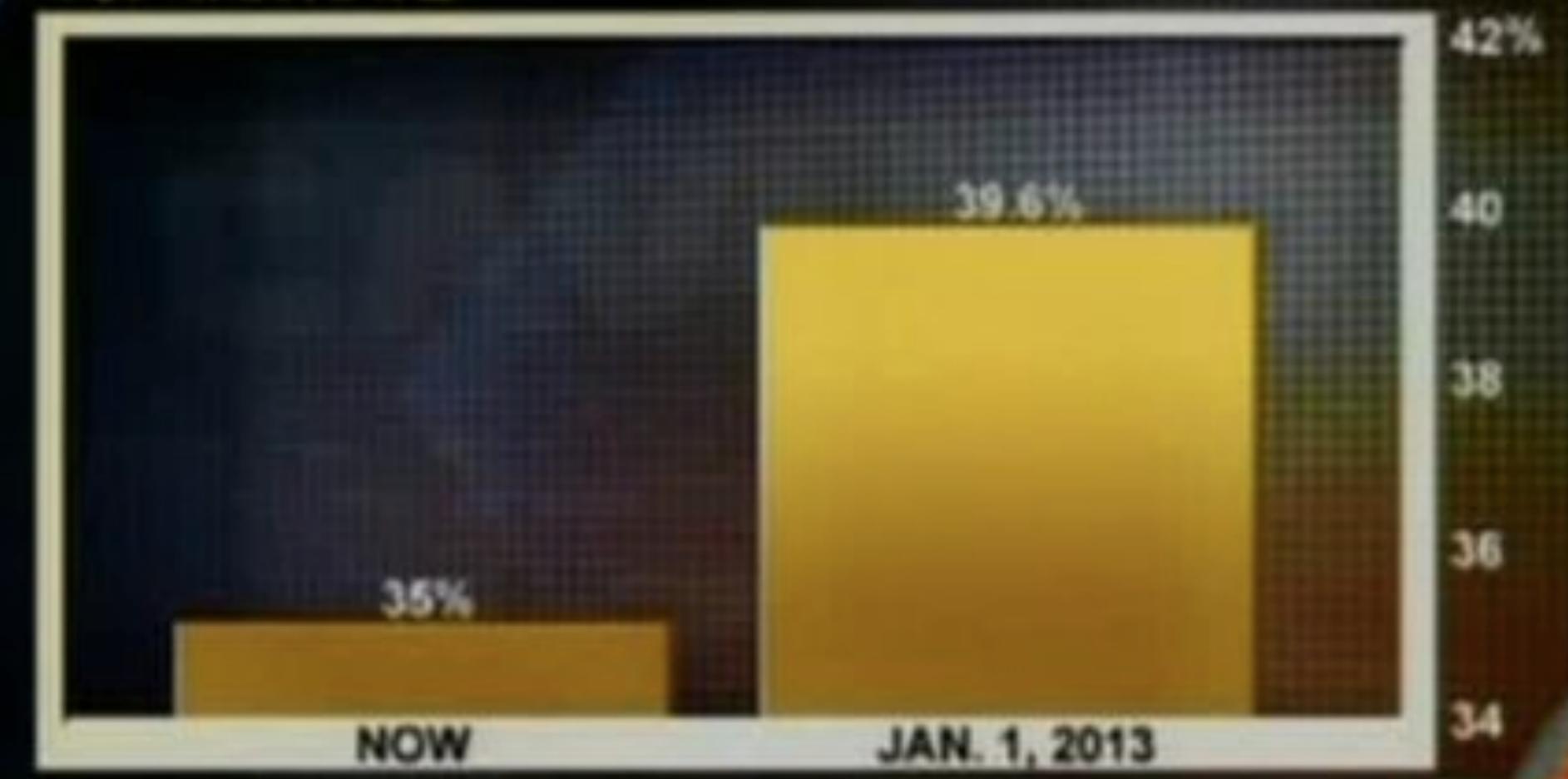
Cherry-picked LittleData for 2 years. This might be the defining example of Distortion By Cherry-Picking. LittleData is usually a sign of cherry-picked data. et





IF BUSH TAX CUTS EXPIRE

TOP TAX RATE



8:01 p ET

FOX
BUSINESS

TOP STORIES

TECHNOLOGY

CONSUMER

WITH THE JUSTICE DEPARTMENT AND ACQUIRES FULL T

DOW 13008.68 ▲ 64.33

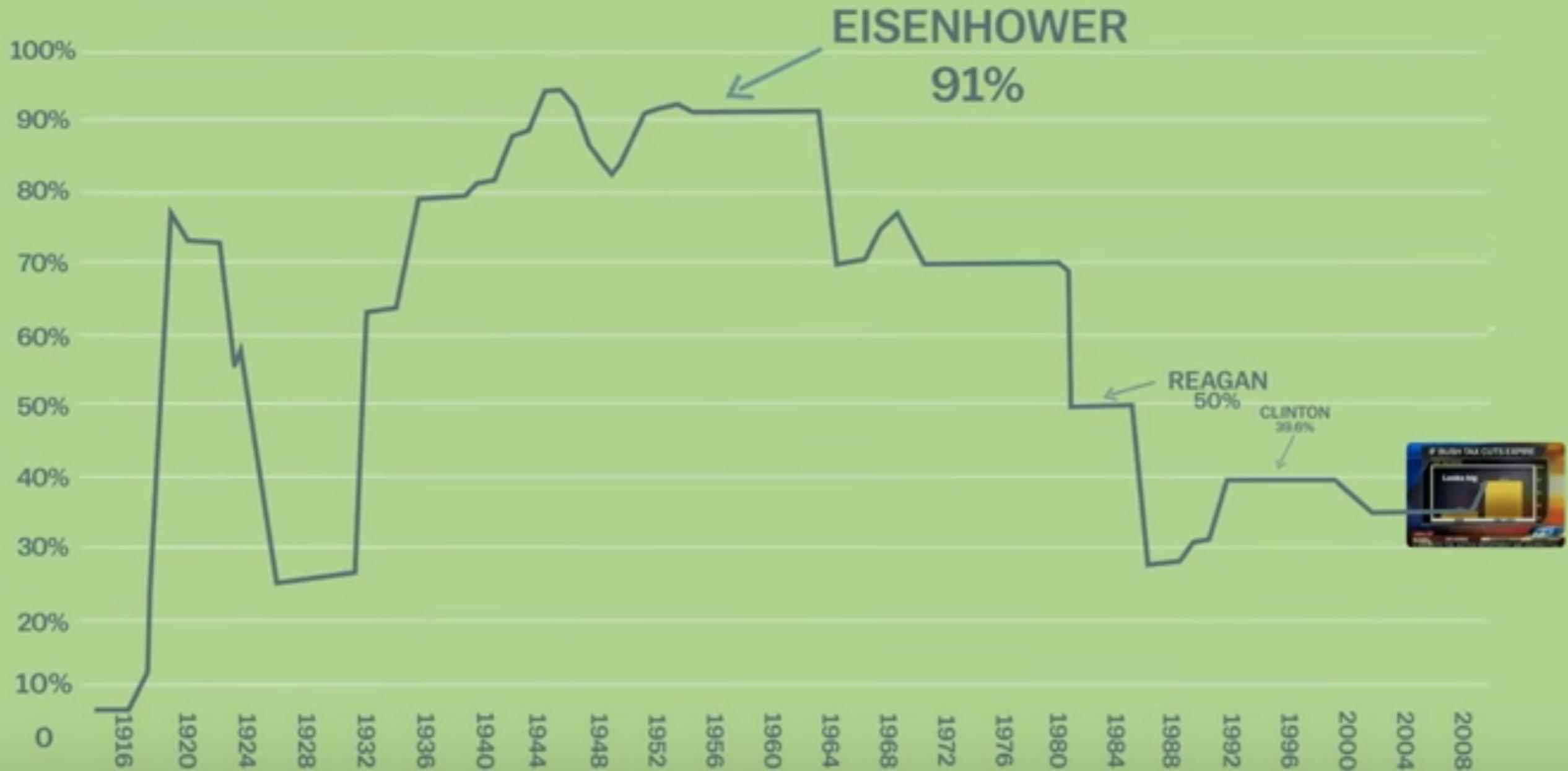
S&P 1379.32 ▲ 5.98

NASDAQ 2939.52 ▲ 6.32

Shut up about the y-axis.
It shouldn't always start at zero.

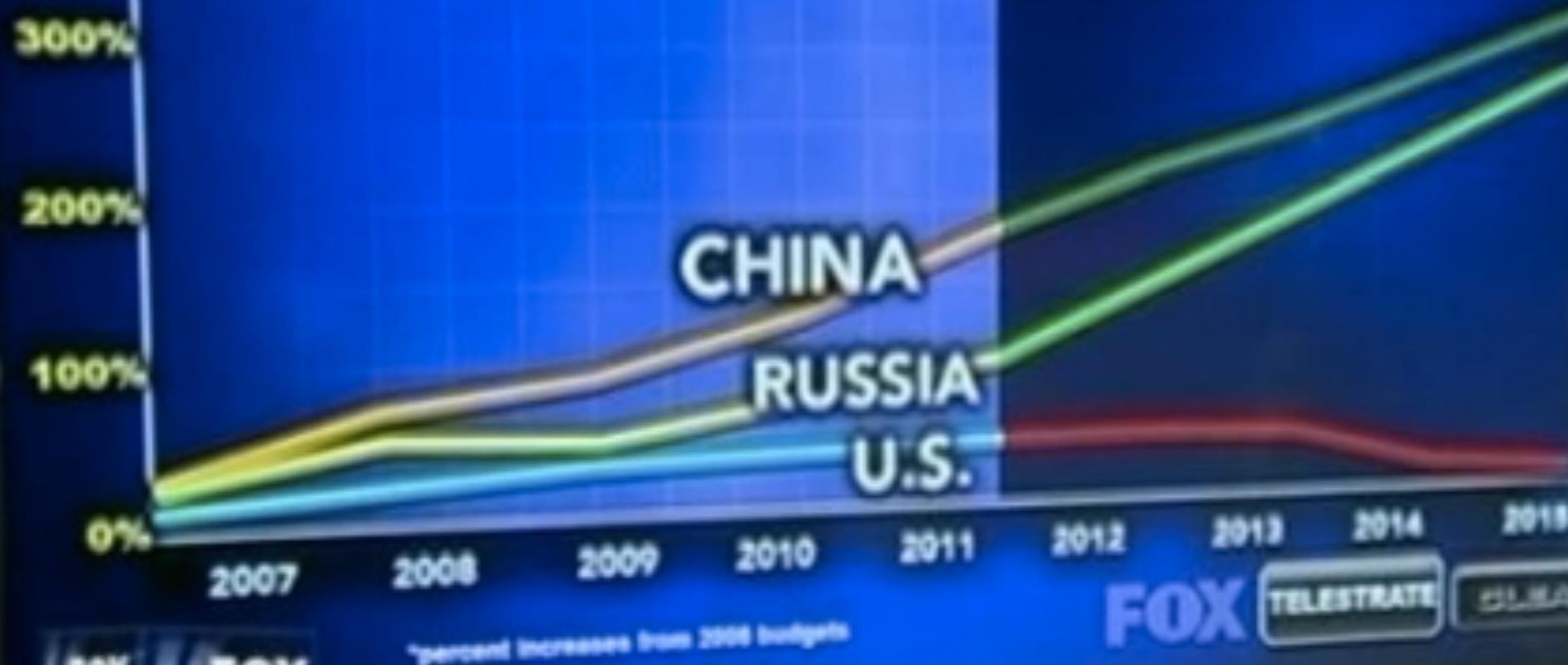
Vox

TAX RATE FOR TOP EARNERS



DEFENSE BUDGET GROWTH 2007-2011

PROJECTED DEFENSE BUDGET GROWTH 2012-2015



X CENTURIES... HE SAYS HE IS TOO INFIRM TO C DOW ▲ 18.48

US spending in military is actually more than sum of the next top 12 countries. Here only shows the growth rate

Biggest Military Spenders in the World (in billions)



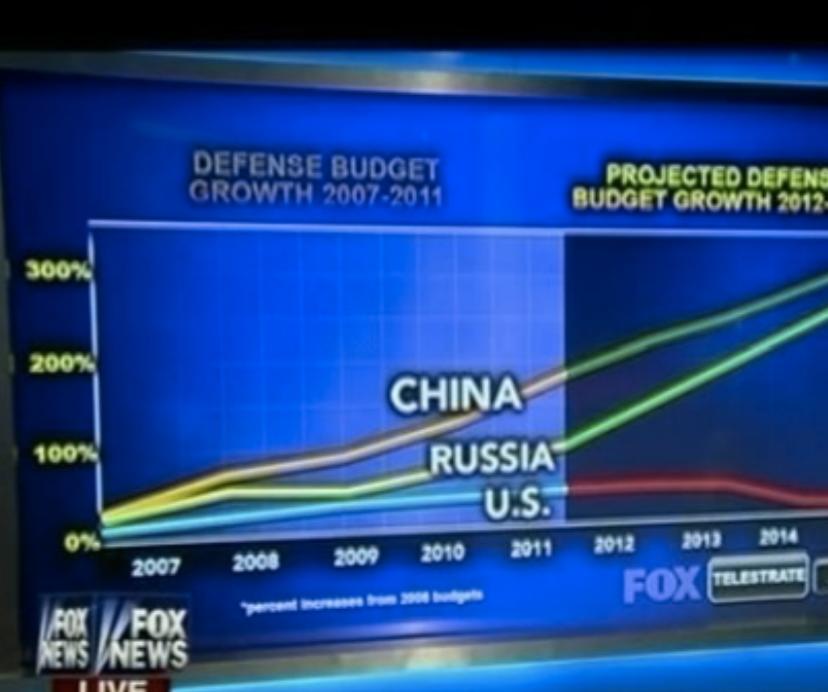
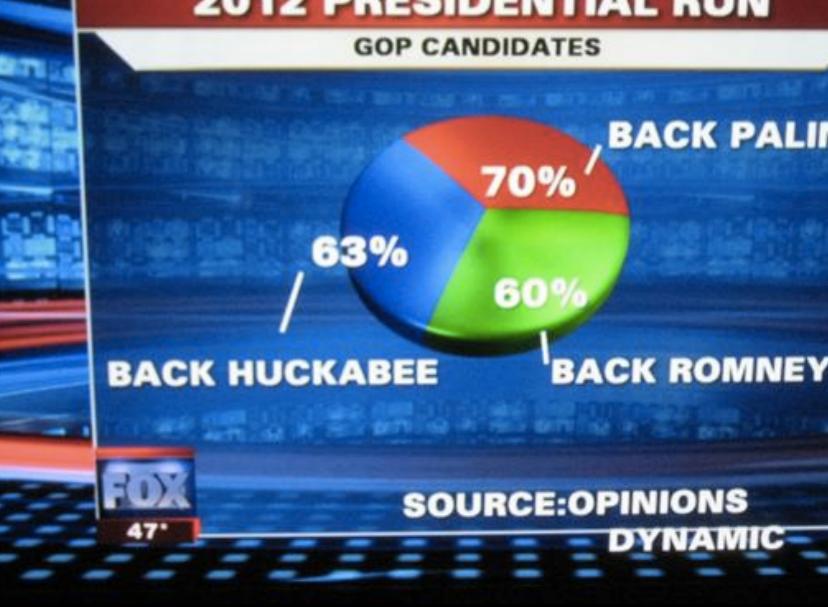
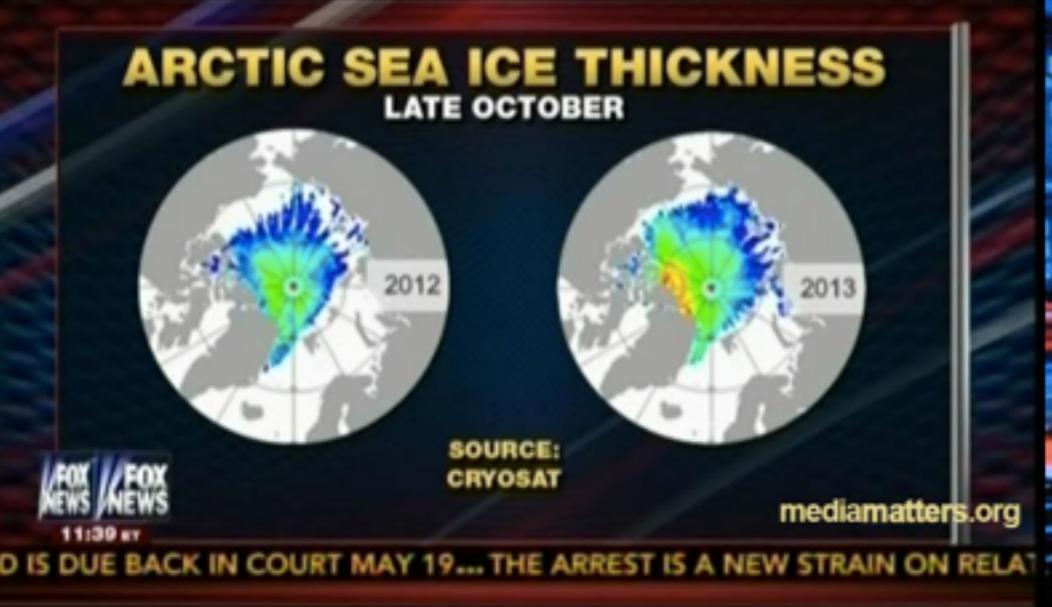
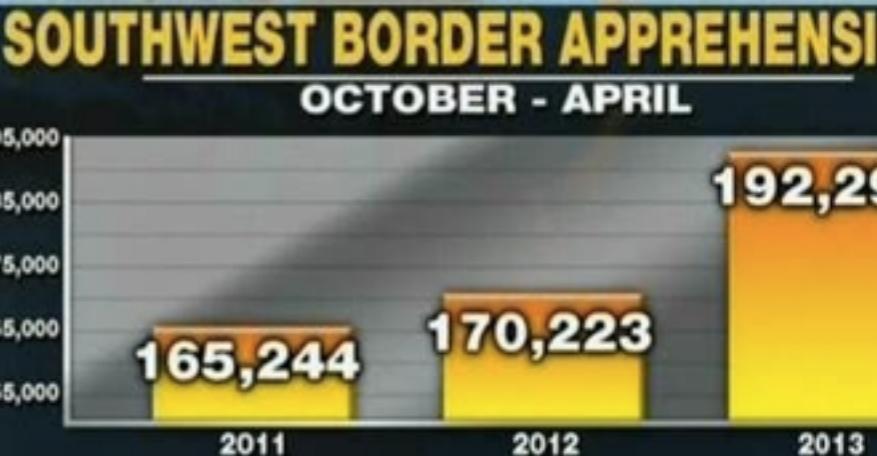
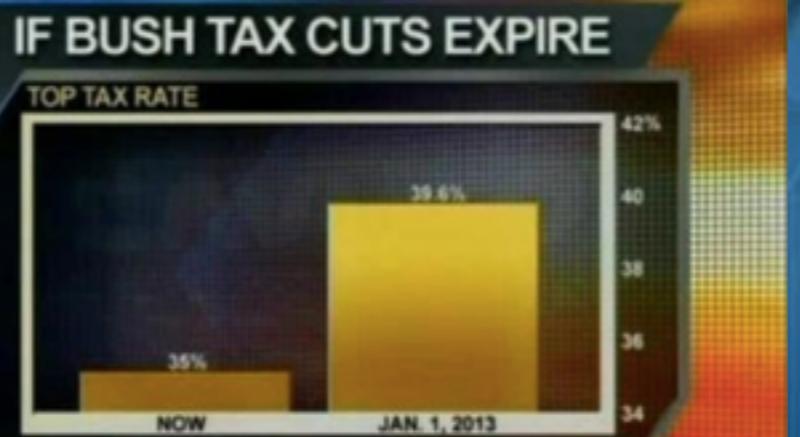
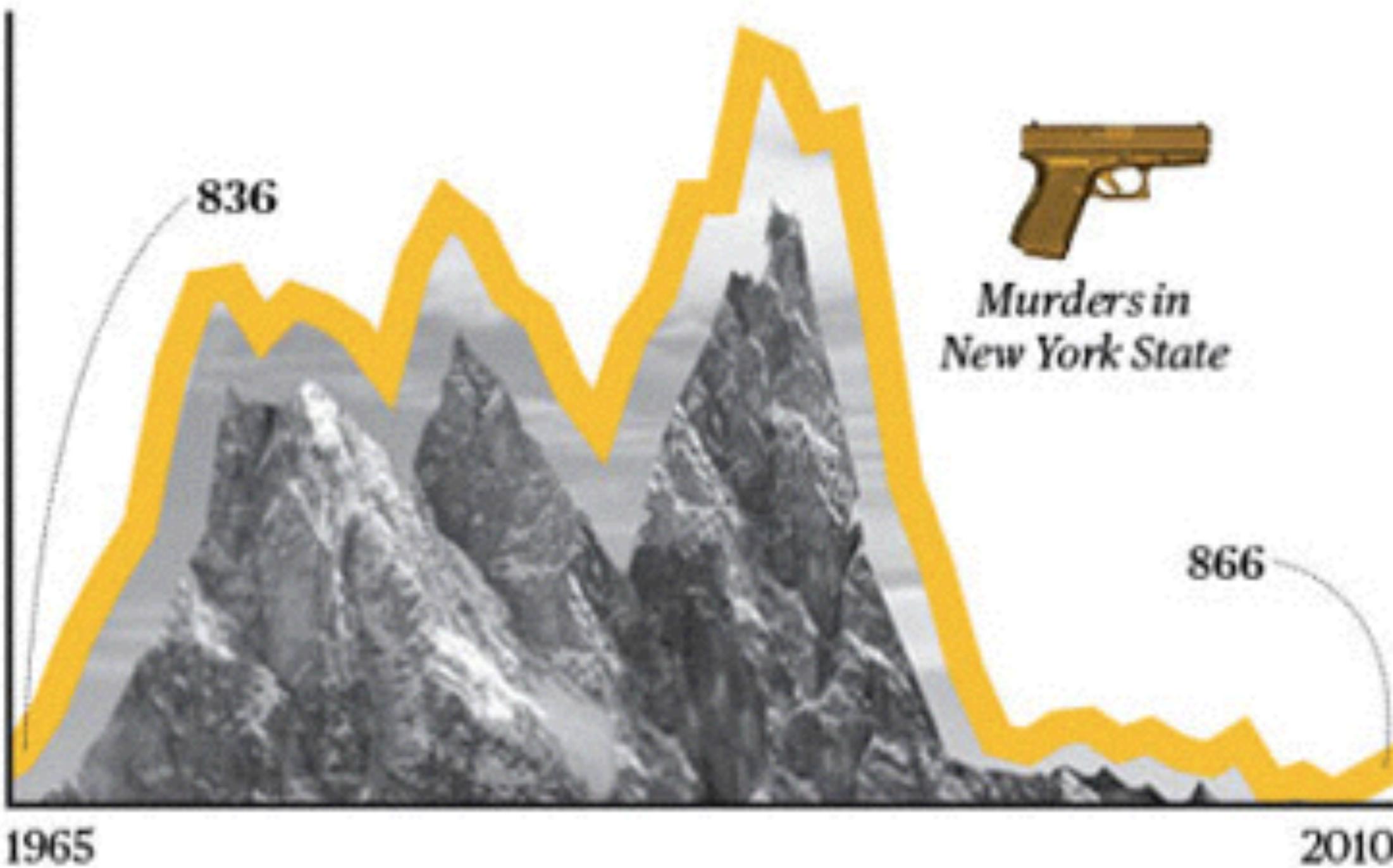


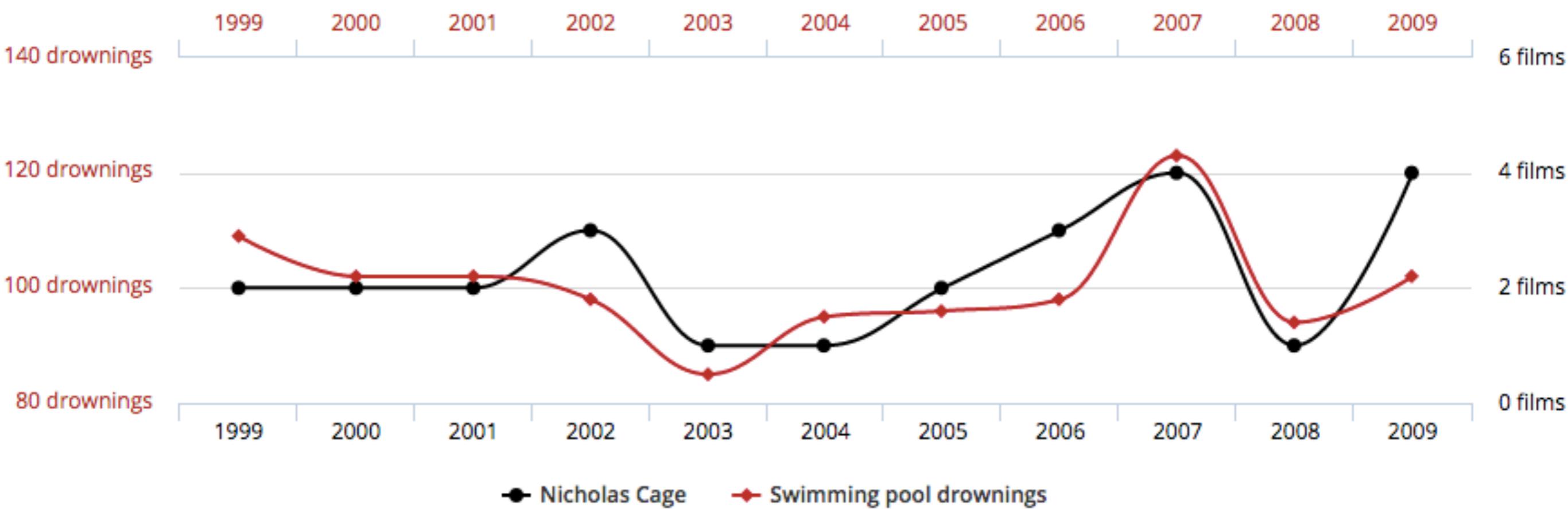
Fig 6

IS THIS MOUNTAIN RANGE AFFECTING THE MURDER RATE?



Number of people who drowned by falling into a pool
correlates with
Films Nicolas Cage appeared in

Correlation: 66.6% ($r=0.666004$, $p>0.05$)

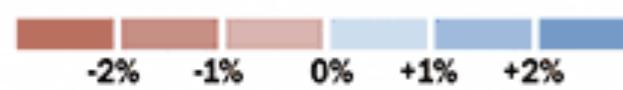


Sources: Centers for Disease Control & Prevention and Internet Movie Database

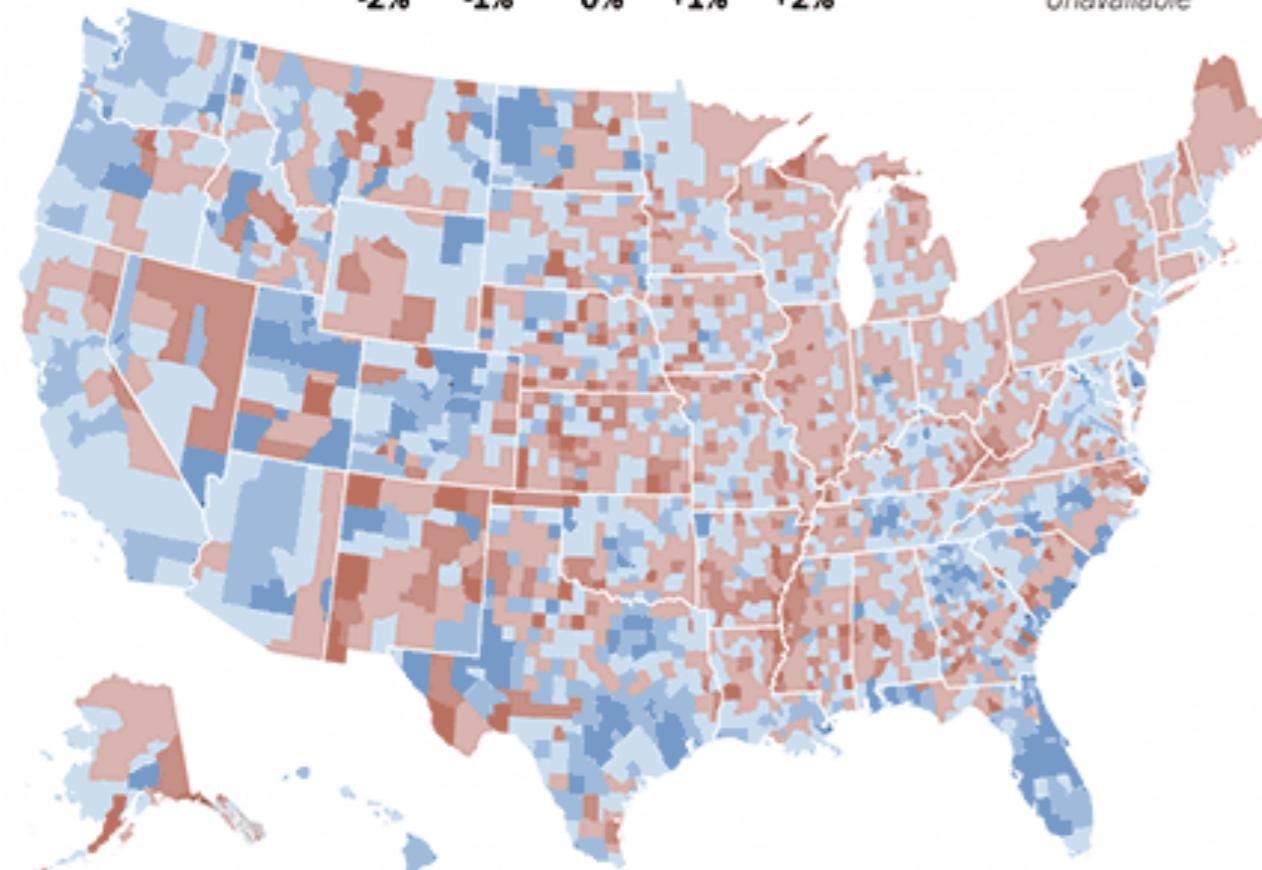
tylervigen.

A year of population change

Percent change in population 2014 – 2015



Unavailable

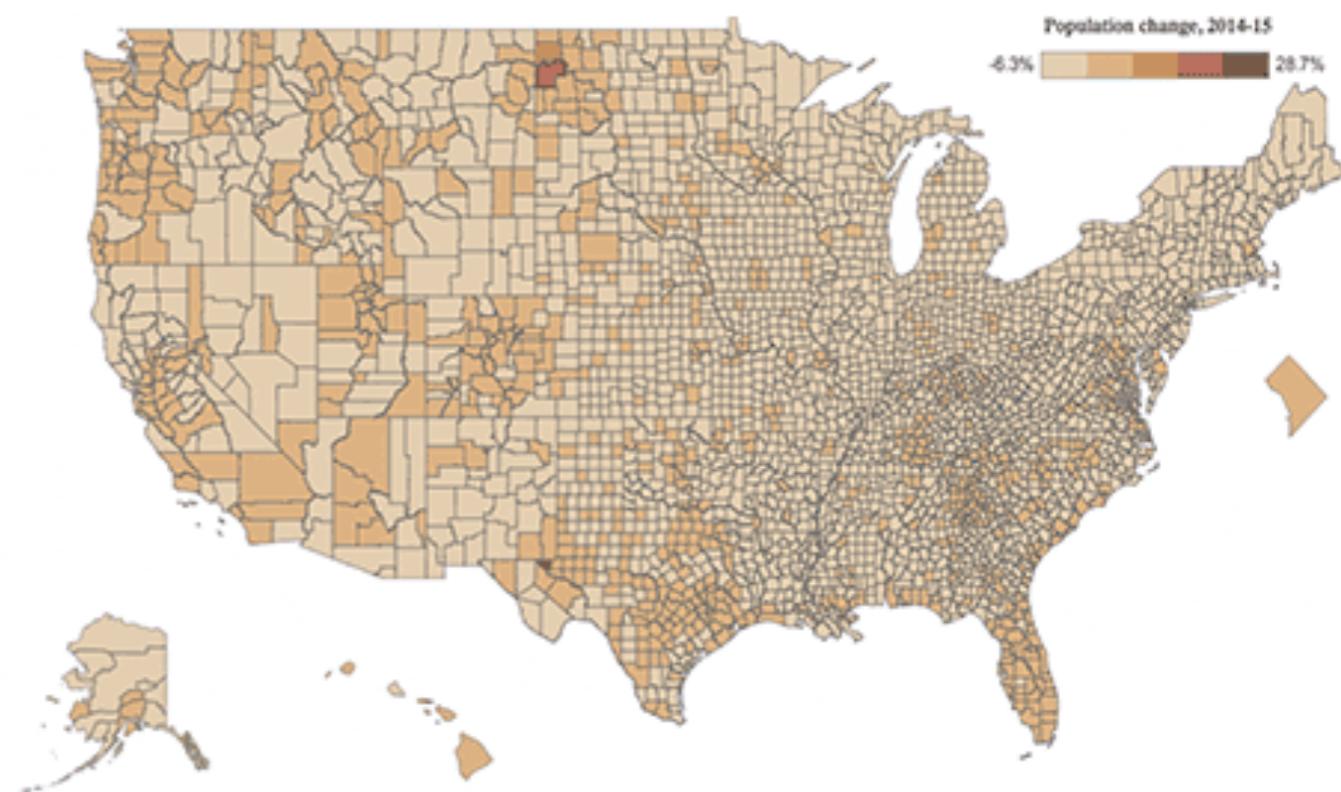


WAPO.ST/WONKBLOG

Source: U.S. Census Bureau

Population Growth

Population growth slowed last year in some of the nation's most expensive counties, like those in California's Silicon Valley, and picked up in more affordable counties in the Sun Belt. Hover over counties for details.



Stateline data visualization, April 2016 | Source: U.S. Census Bureau

Some Guideline

- 小心立體圖表
- 先瞭解座標的範圍
- 特別注意數據的規模
- 提出相關性時，也要說明因果關係
- 客觀的看待自己的觀點

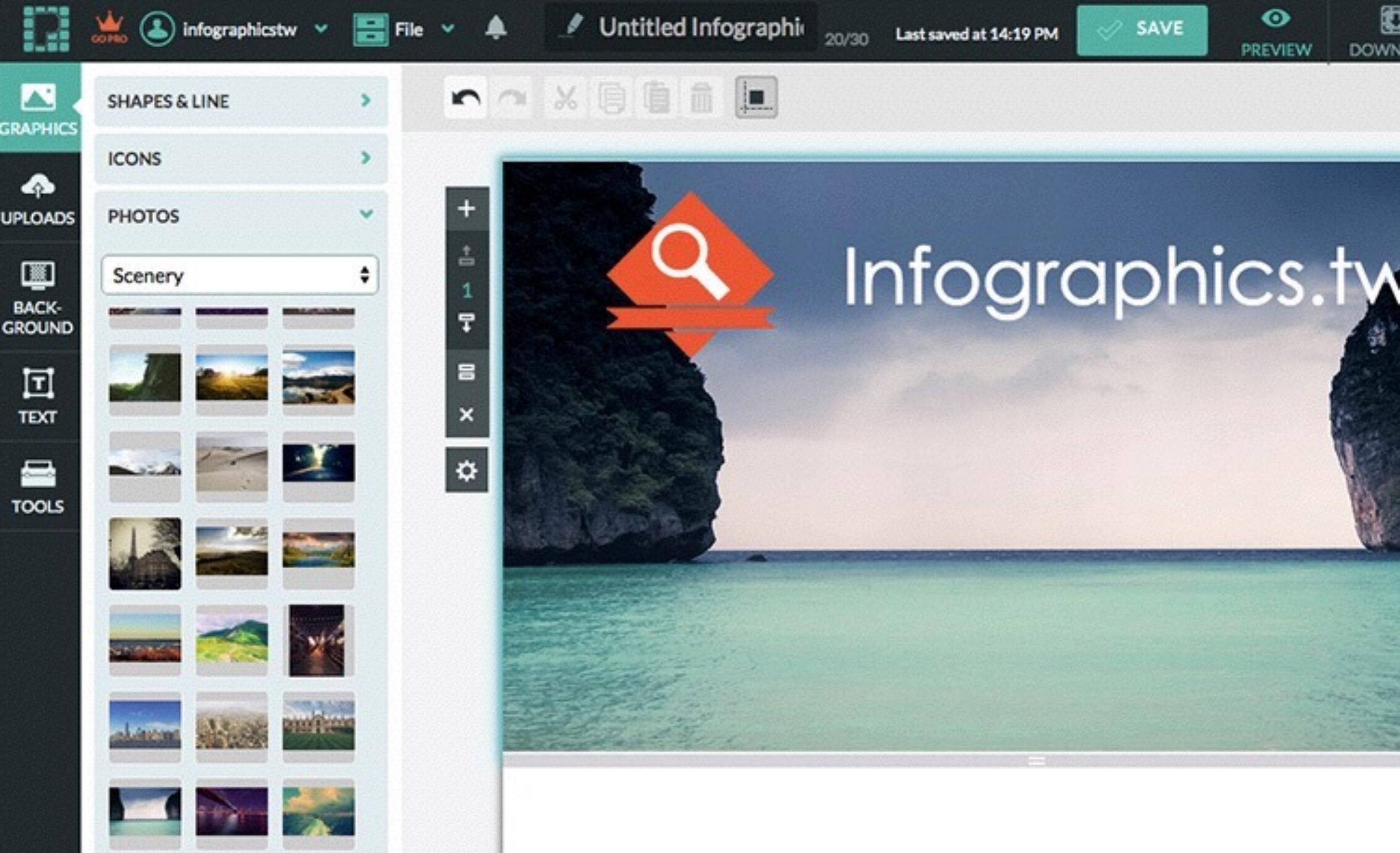
圖表是資料的人為解釋

避免偏頗的解釋，也避免被圖表誤導

工具與資源

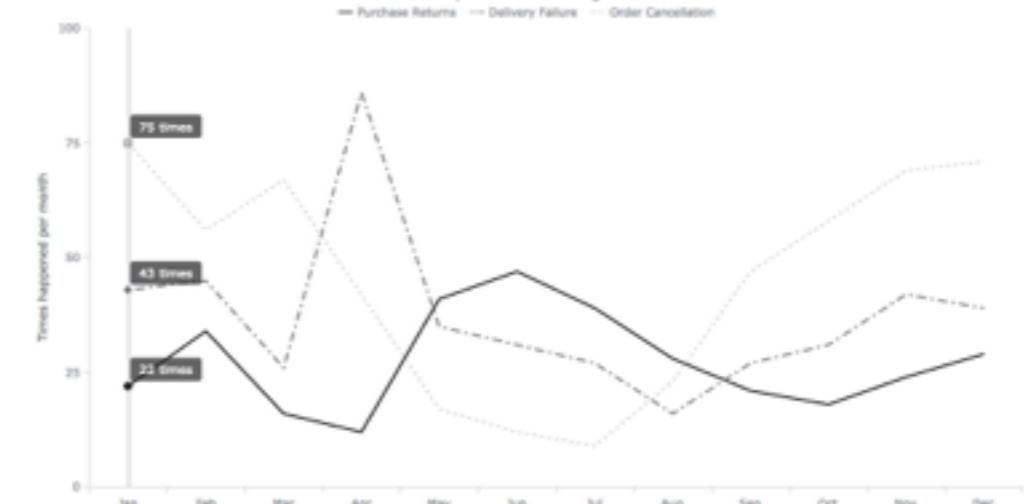
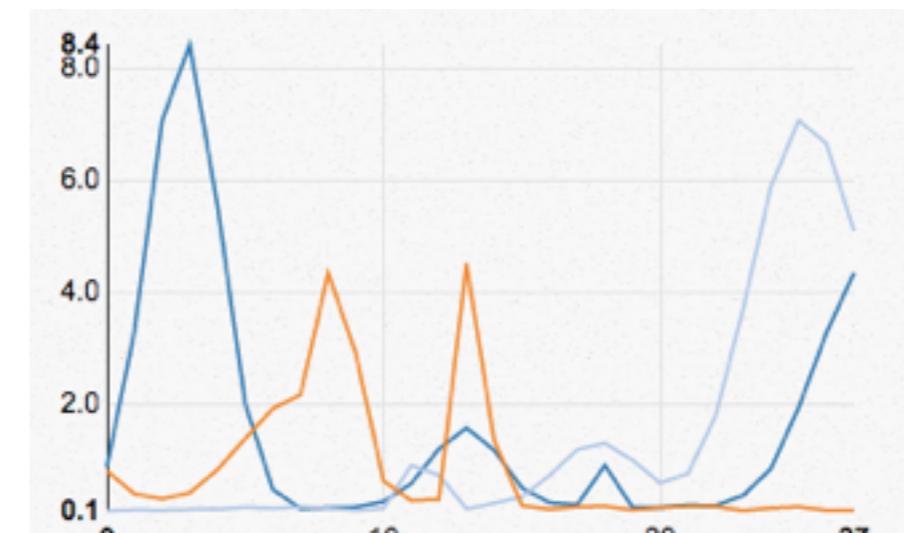
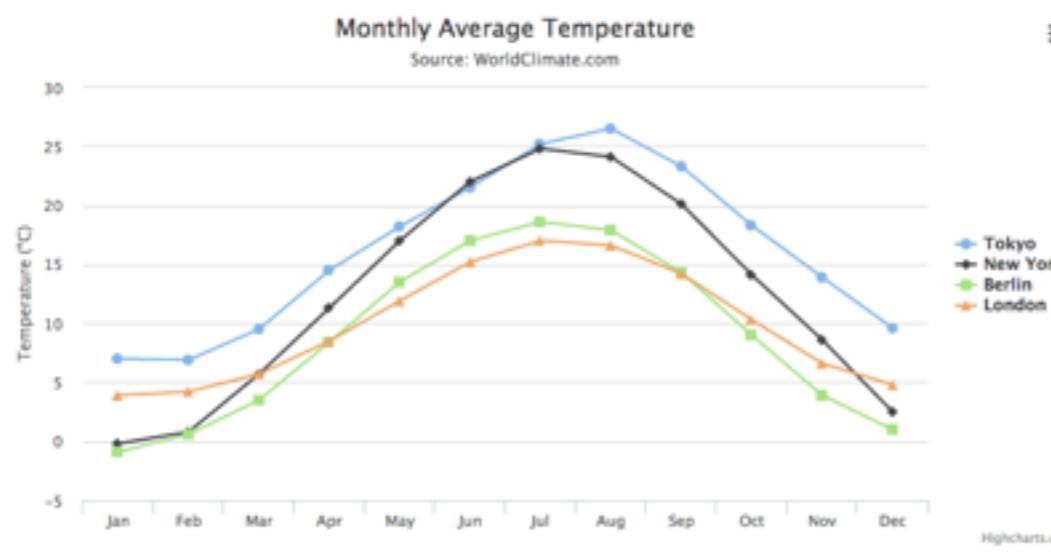
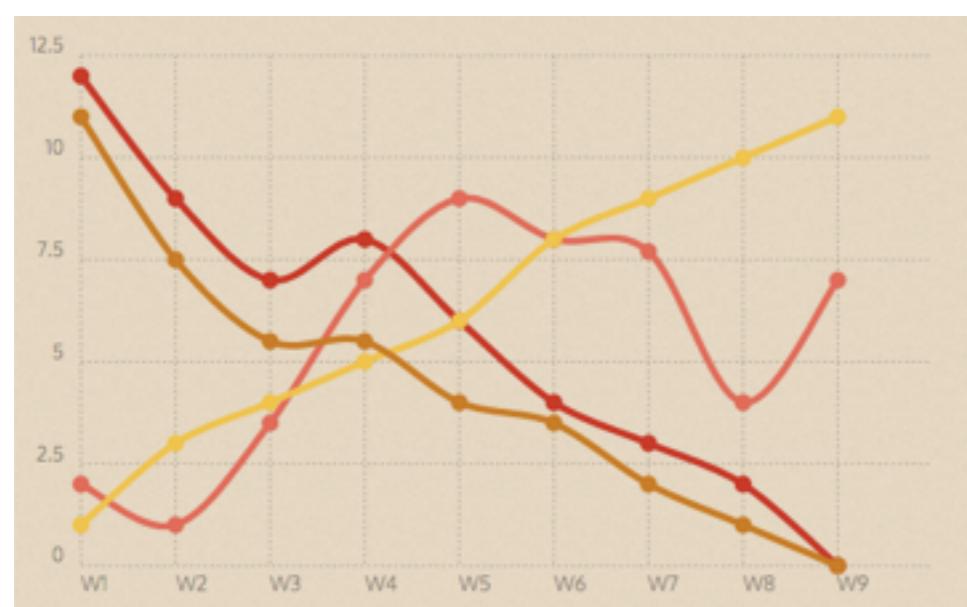
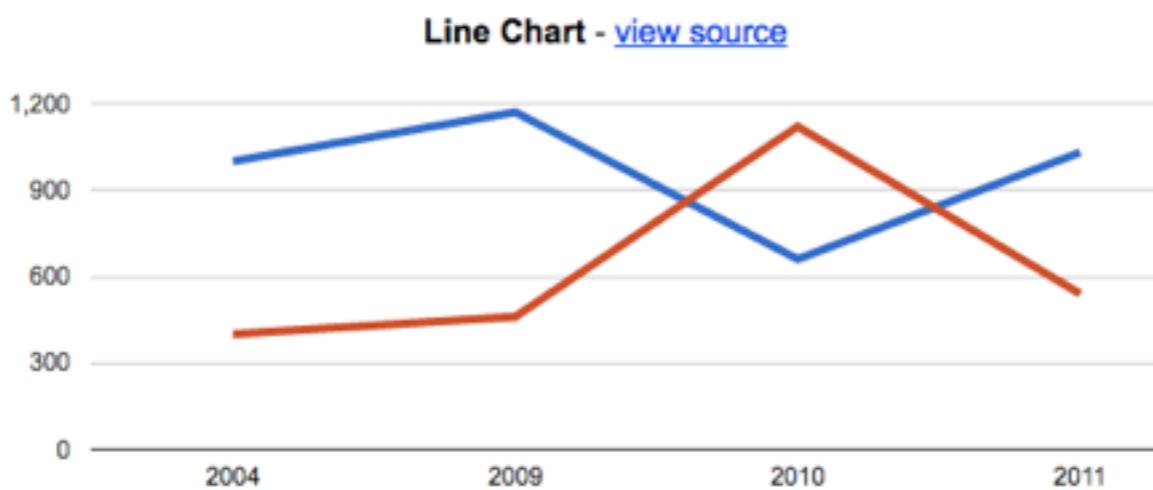
Handy Tool for Visualization

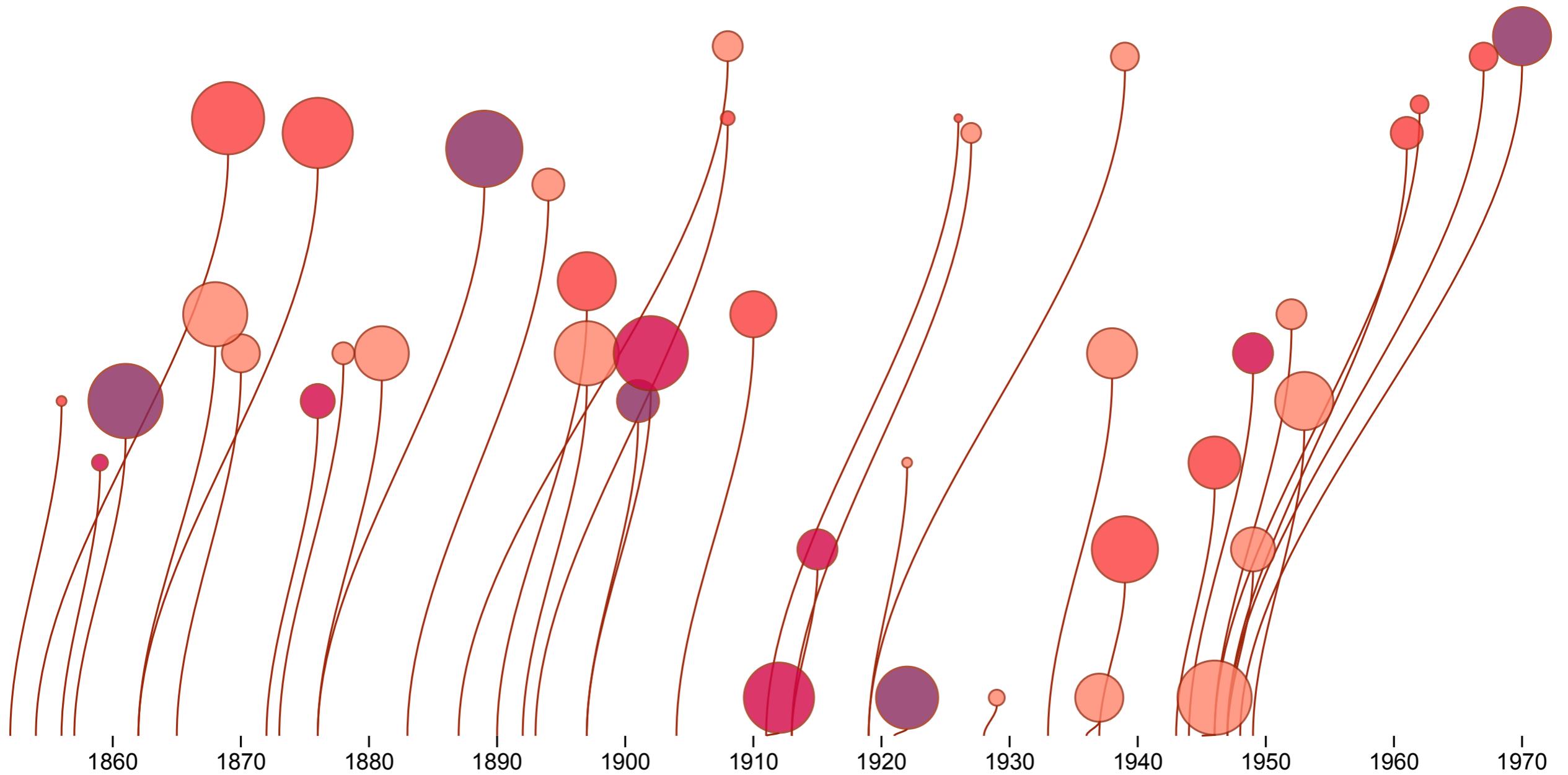
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- Peity
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- venngage
- ceros
- uvCharts
- flot
- sigma.js
- fusion charts
- n3 charts
- anychart
- xchart
- dc.js
- amchart
- raphaeljs
- chartist.js
- echarts (baidu)
- fusion table
- tableau
- paper.js
- zingchart



PIKTOCHART / CANVA / INFOGRAM

Anychart, Google Chart, Chartist, nvd3, highchart, amchart





PlotDB

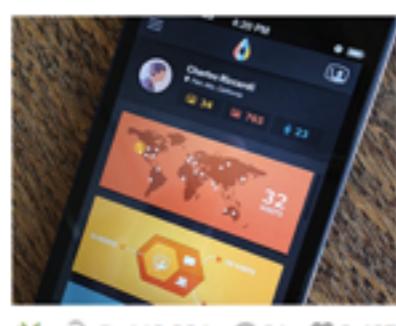
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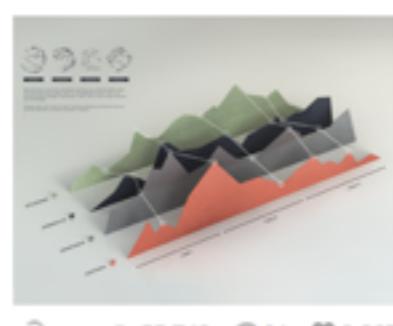
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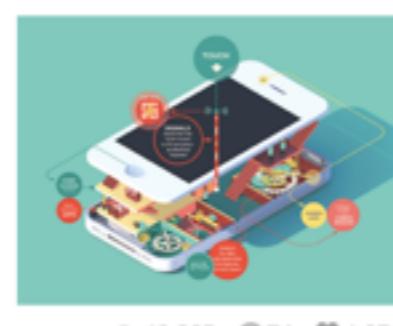
1 61 3,487

Jeremiah Shaw



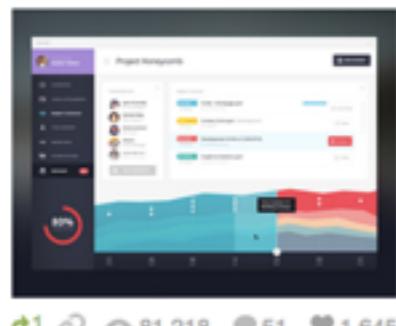
55,743 81 2,267

M Julian Hrankov



19,965 74 1,371

Jing Zhang



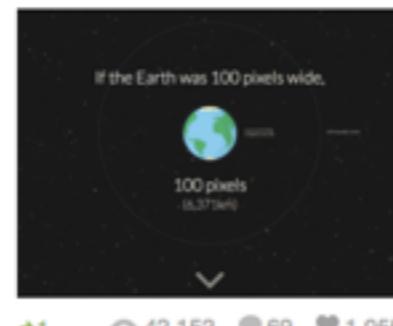
1 51 1,645

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Anton Egorov



1 42,152 69

David Pallwoda



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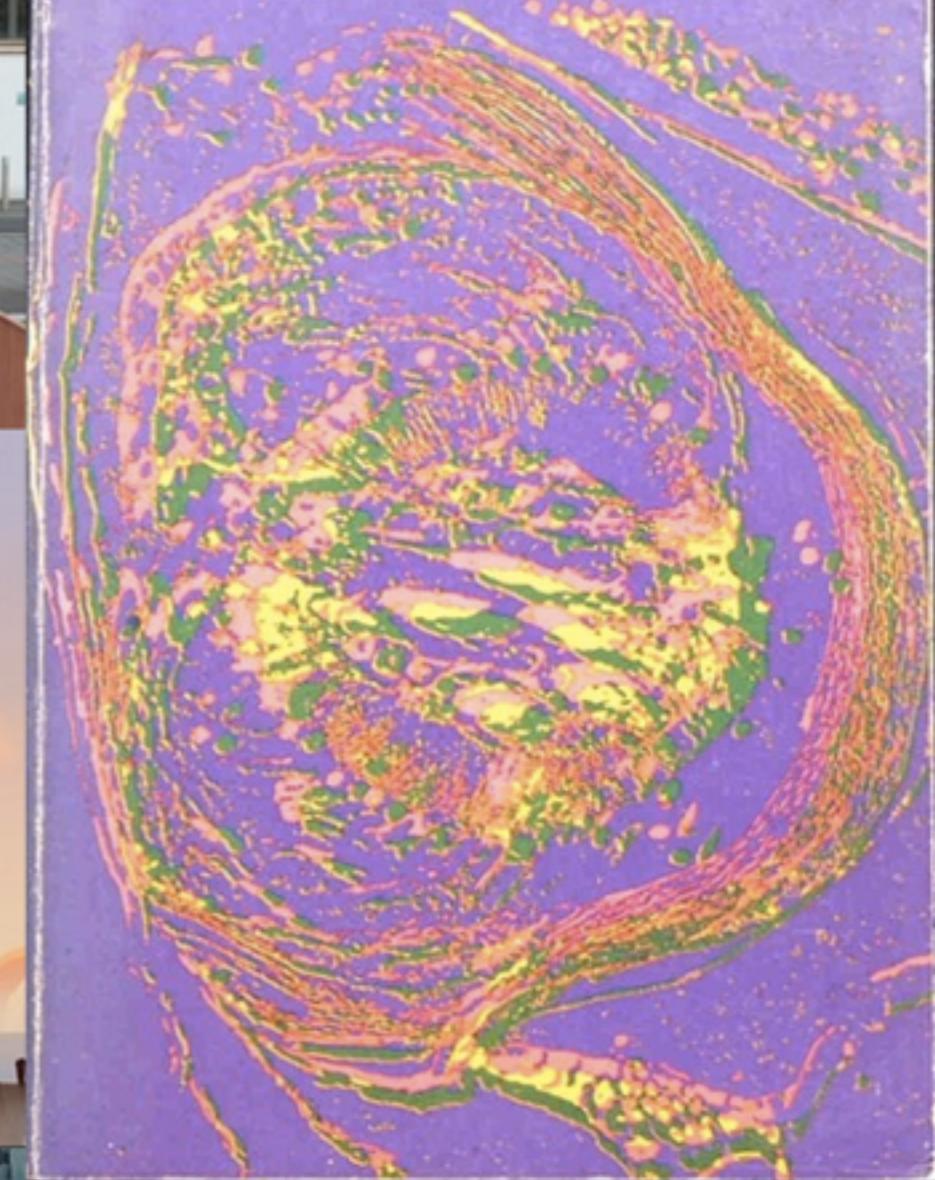


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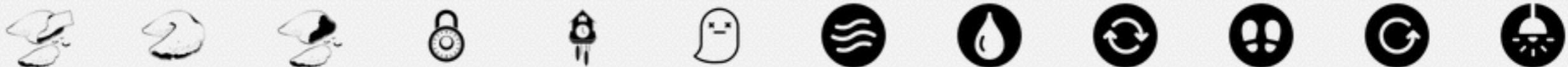
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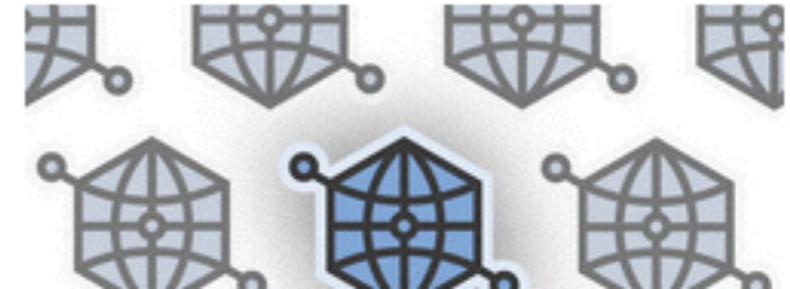
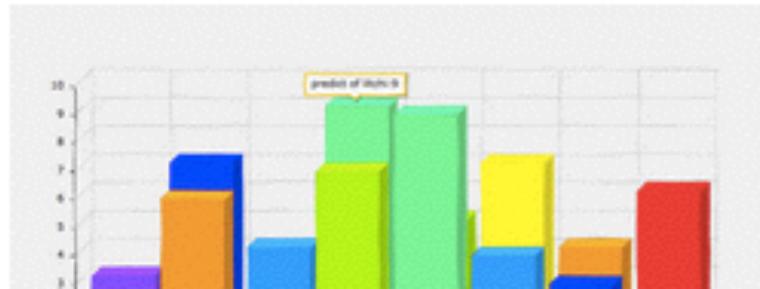


<http://blog.infographics.tw>

誰說前端爬不了資料？使用 crossorigin.me

資料，資料，我需要資料！視覺化通常拿整理好的資料來做，尤其是網頁上的資料視覺化。但如果需要即時產生的資料，而且資料還是從別的網站來的？前端網頁取得外站資料會有 CORS 的問題，果一定要寫後端才能取得。但其實這個問題有辦法繞過，今天就來介紹怎麼用 CORS Proxy 「<http://crossorigin.me>」來做到這件事。

L A T E S T



資料視覺化粉絲專頁



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tkirby@gmail.com