



URBAN

INSTITUTE · ELEVATE · THE · DEBATE

Data Visualization Done Differently

Communicate through
data visualization



About Me



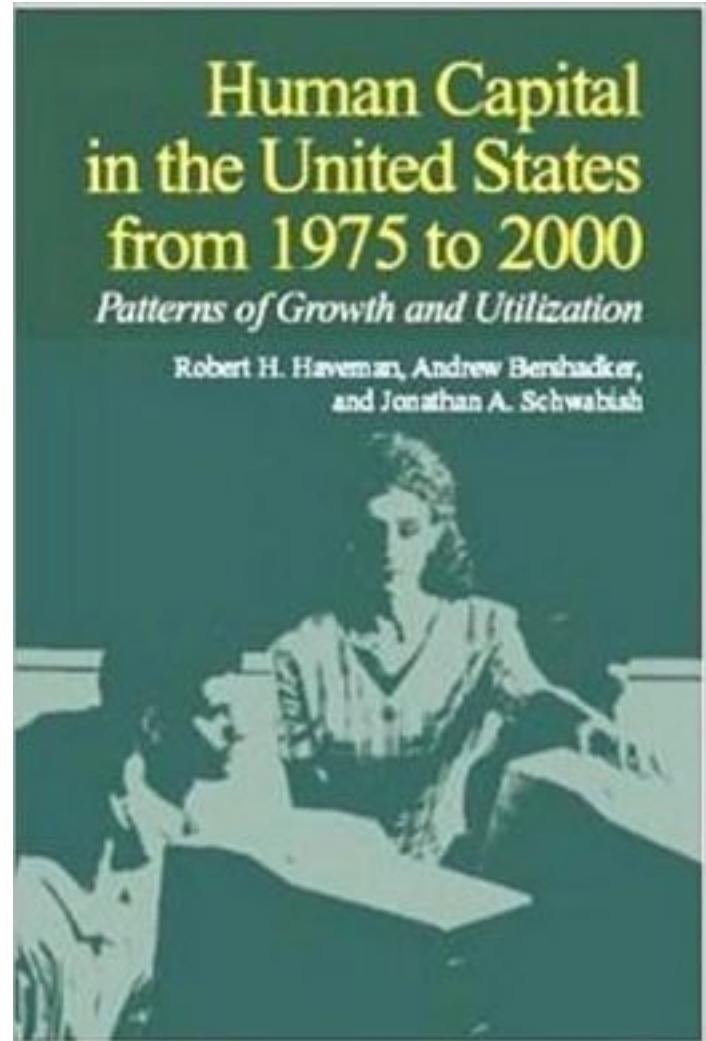
Home

School



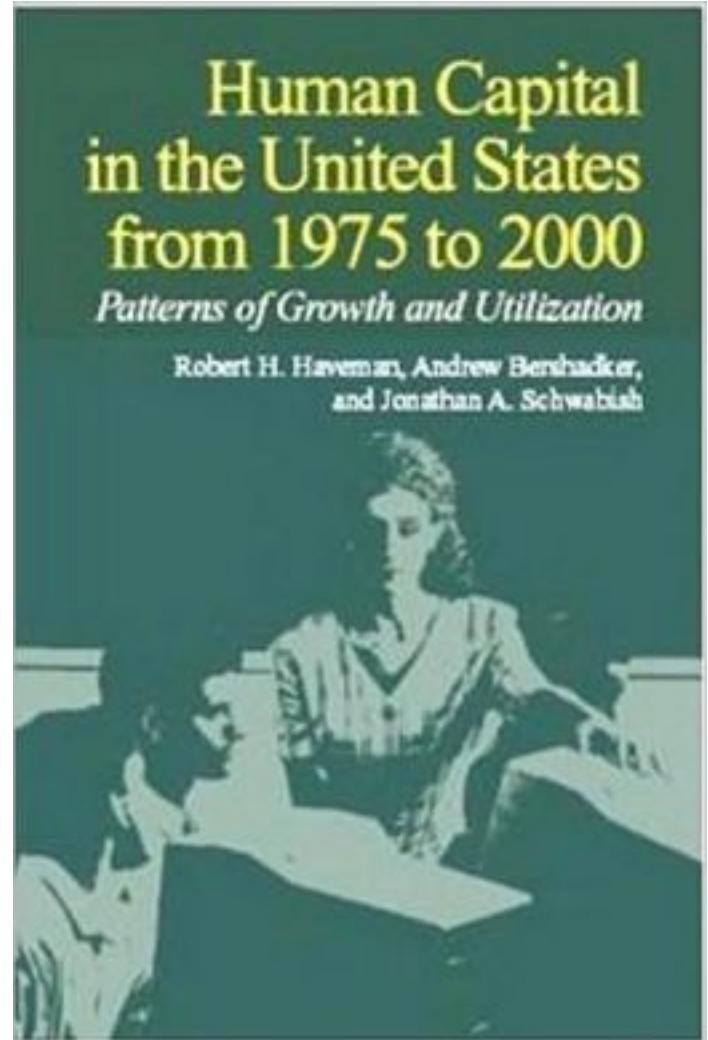
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My bestselling book

Currently
ranked
#10,550,639



My bestselling book



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URBAN
INSTITUTE
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Social Security
Retirement Policy
Immigration
Food Stamps
Disability Insurance
Inequality
Labor Market



Members of
Congress
and Staff



Policymakers,
Foundations,
Researchers,
Practitioners,
Media, & Public







WOW

Purpose

analytics

presentation



form



static



form



interactive

static



form

animated



interactive

function



function

explanatory

exploratory

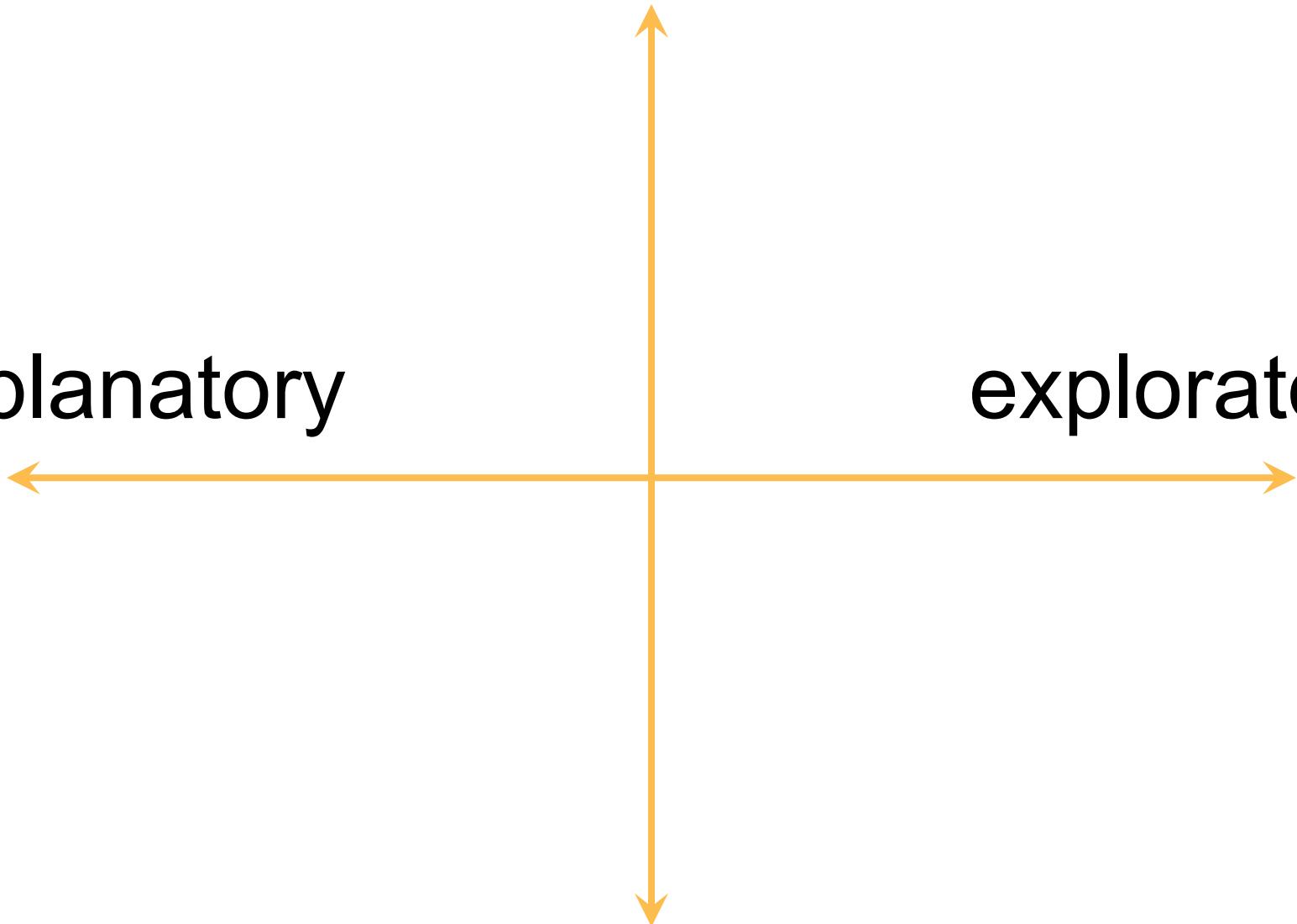


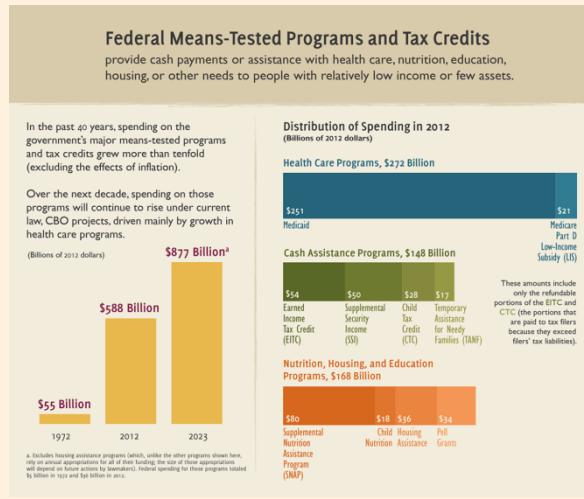
static

explanatory

exploratory

interactive



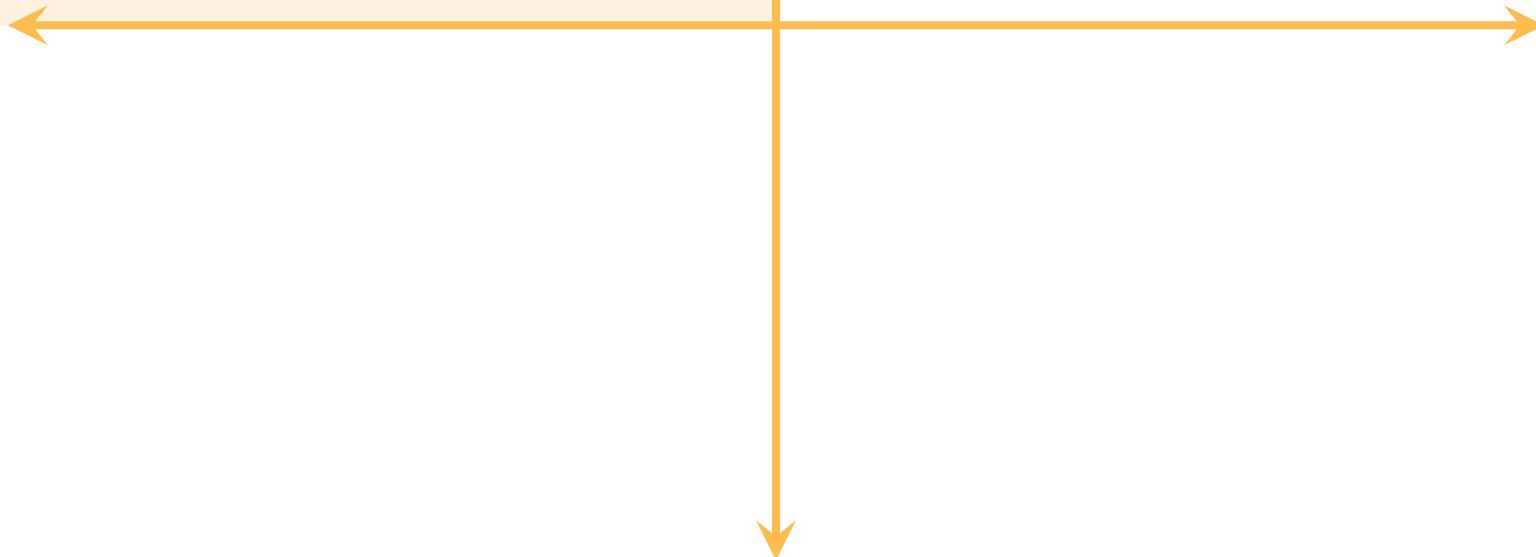


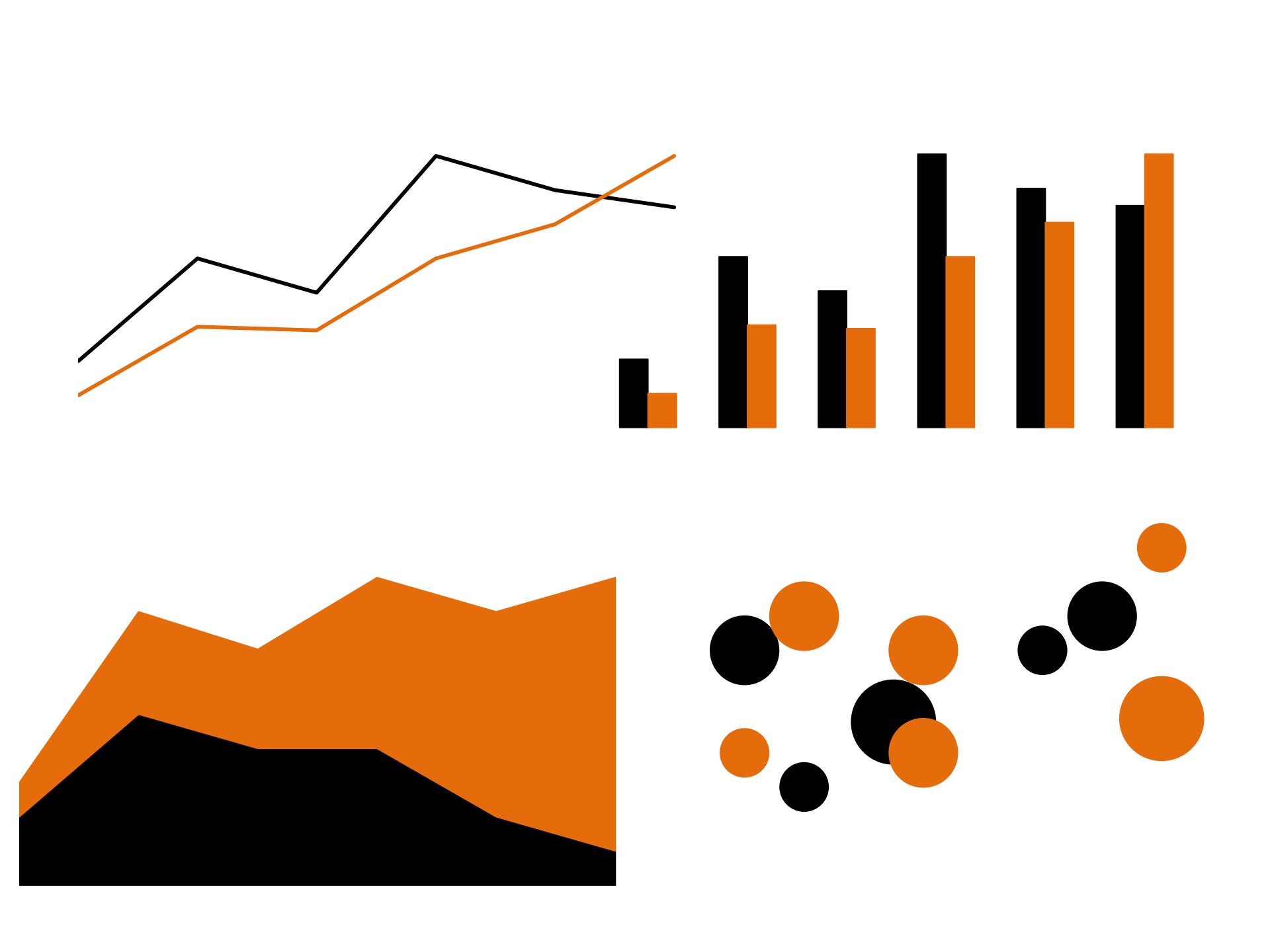
static

explanatory

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interactive





Federal Means-Tested Programs and Tax Credits

provide cash payments or assistance with health care, nutrition, education, housing, or other needs to people with relatively low income or few assets.

In the past 40 years, spending on the government's major means-tested programs and tax credits grew more than tenfold (excluding the effects of inflation).

Over the next decade, spending on those programs will continue to rise under current law, CBO projects, driven mainly by growth in health care programs.



a. Excludes housing assistance programs (which, while the other programs shown here may not be designed for low-income families, the spending for those programs will depend on future actions by lawmakers), federal spending for those programs totaled \$16 billion in 2012 and is projected to grow to \$24 billion in 2023.

Distribution of Spending in 2012 (Billions of 2012 dollars)



What Explains Changes in Spending?

Two forces have driven the growth of spending on means-tested programs and tax credits since 1972: increases in the number of people participating in those programs and increases in spending per participant. Both of those increases are the result of multiple factors.



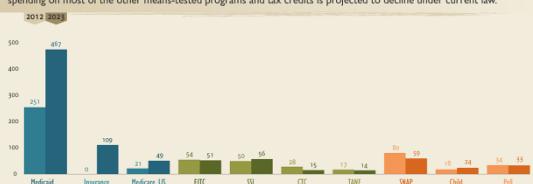
Changes in Spending Between 1991 and 2011

Excluding the effects of inflation, total federal spending on major means-tested programs and tax credits more than tripled over the two decades from 1991 to 2011 (the latest year for which participation data are available). Spending for Medicaid grew by the largest amount, partly because participation in the program doubled during that period. Participation also doubled for SNAP, and average spending per participant rose for all of the programs for which data are available.



Projected Changes in Spending Between 2012 and 2023

If current laws do not change, federal spending on Medicaid and other means-tested programs that provide health care will shoot up over the next 10 years, CBO projects (even after adjusting for inflation). But inflation-adjusted spending on most of the other means-tested programs and tax credits is projected to decline under current law.



Note: Starting in 2014, Medicaid eligibility is expected to be extended in many states to people with income below 133 percent of the poverty level. This chart shows how much it would cost to extend coverage to all low-income individuals who currently lack coverage. It does not reflect the effects of the Affordable Care Act, which will help some low-income individuals buy health insurance through new insurance exchanges.

Prepared by: House Budget Committee and Office of Management and Budget, July 2012, and July 2013. Microeconomics, House Division, Published February 2013.

For details, see <http://www.cbo.gov/ftpdocs/109xx/doc109-103/109-103-01.pdf> or <http://www.cbo.gov/ftpdocs/109xx/doc109-103/109-103-02.pdf>.

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(Billions of 2012 dollars)

\$877 Billion^a

\$588 Billion

\$55 Billion

2012

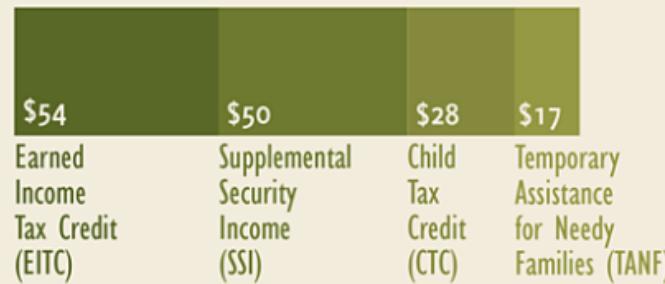
2023

Distribution of Spending in 2012 (Billions of 2012 dollars)

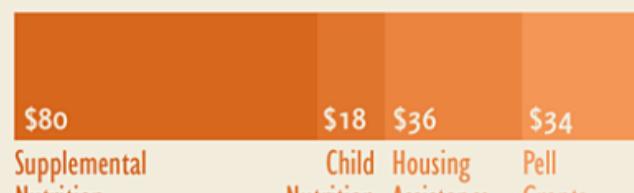
Health Care Programs, \$272 Billion



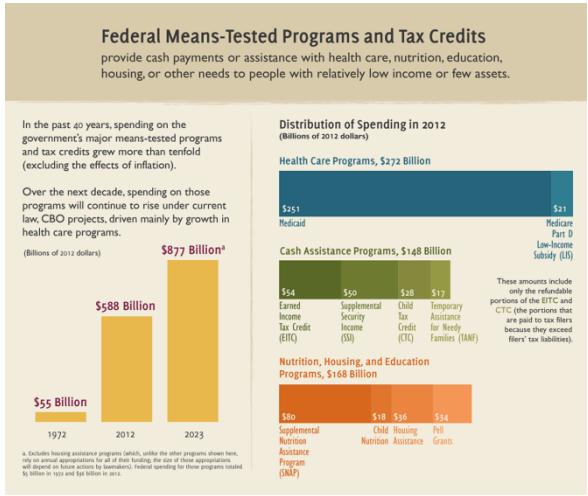
Cash Assistance Programs, \$148 Billion



Nutrition, Housing, and Education Programs, \$168 Billion



These amounts include only the refundable portions of the EITC and CTC (the portions that are paid to tax filers because they exceed filers' tax liabilities).

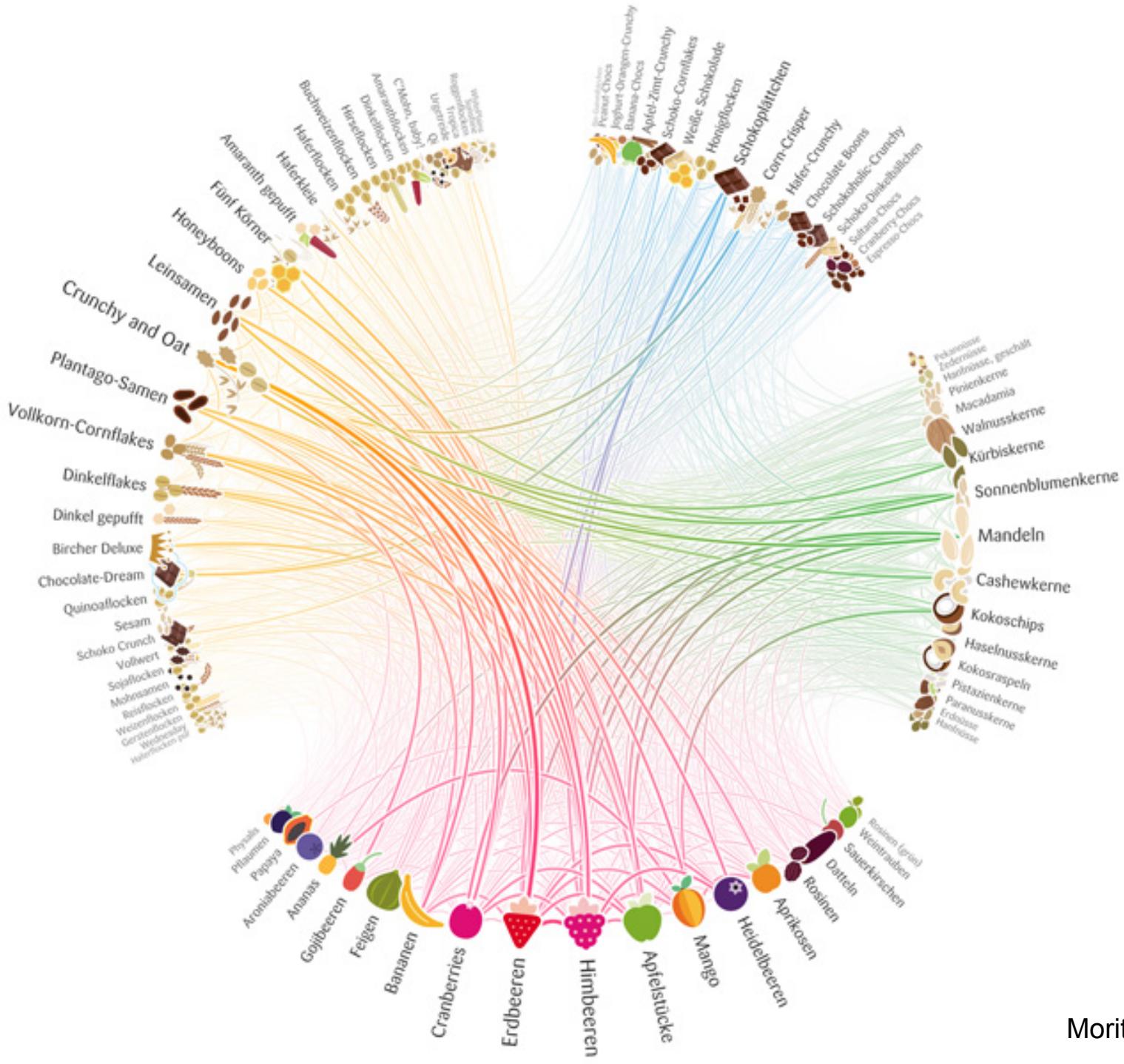


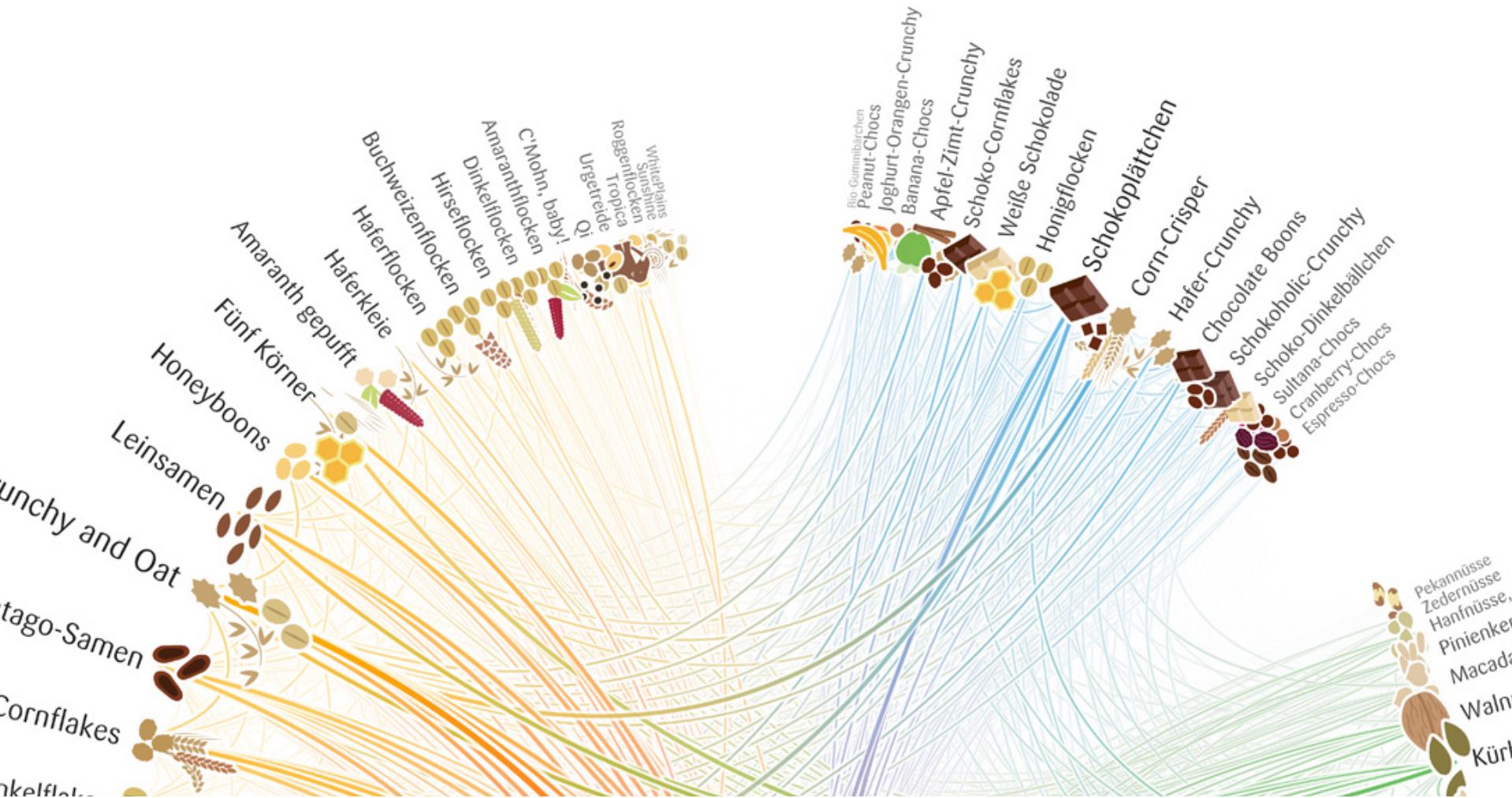
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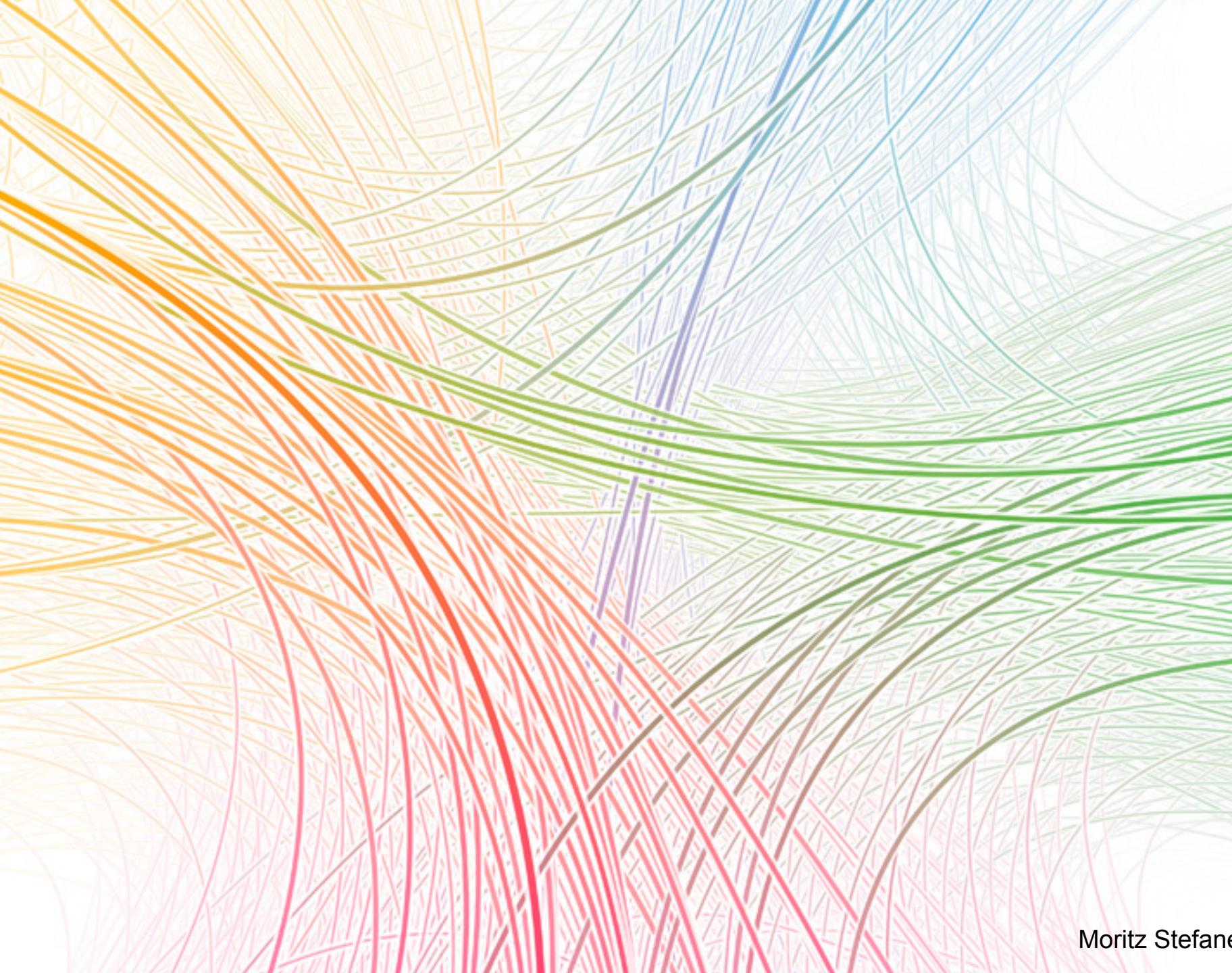
explanatory

exploratory

interactive





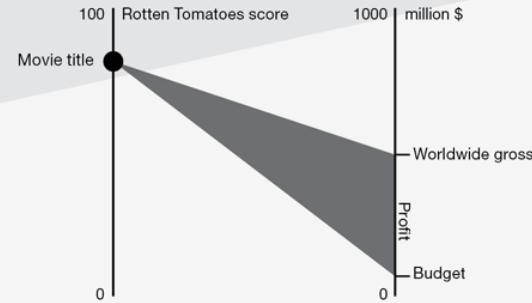


Moritz Stefaner

SPOTLIGHT ON PROFITABILITY

Top 3 selection based on profitability

(% of budget recovered)*



Animation

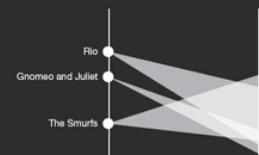
Comedy

Romance

Drama

Biography

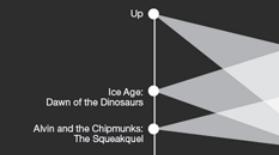
2011



2010



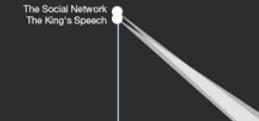
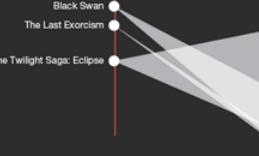
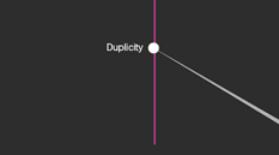
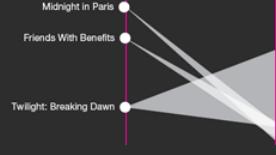
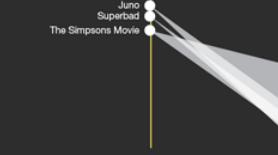
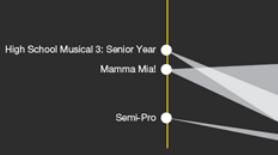
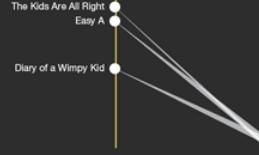
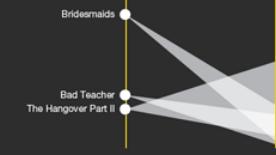
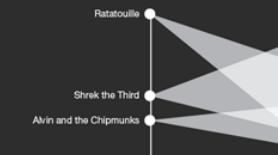
2009



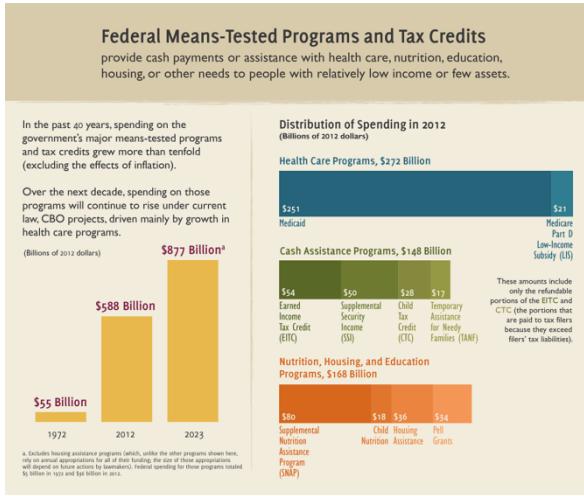
2008



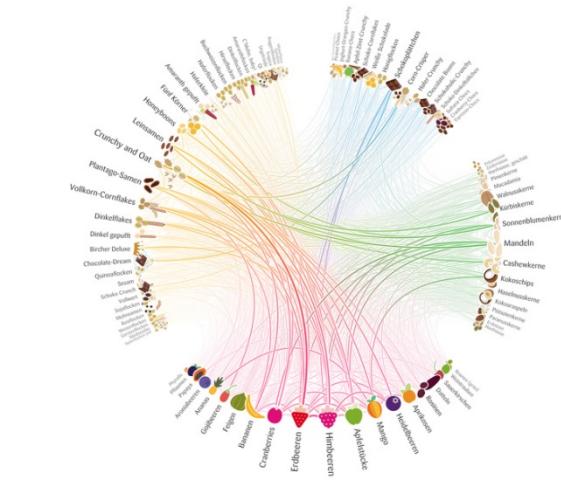
2007



Kristina Szucs



static

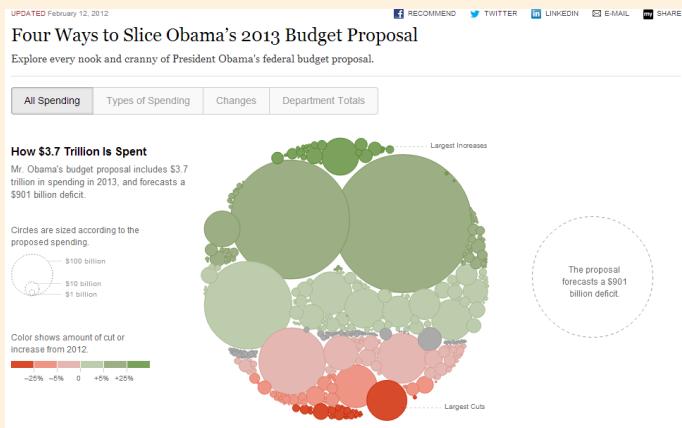


explanatory

exploratory



interactive



1. Overview First
2. Zoom and Filter
3. Details on Demand

Four Ways to Slice Obama's 2013 Budget Proposal

Explore every nook and cranny of President Obama's federal budget proposal.

[All Spending](#)[Types of Spending](#)[Changes](#)[Department Totals](#)

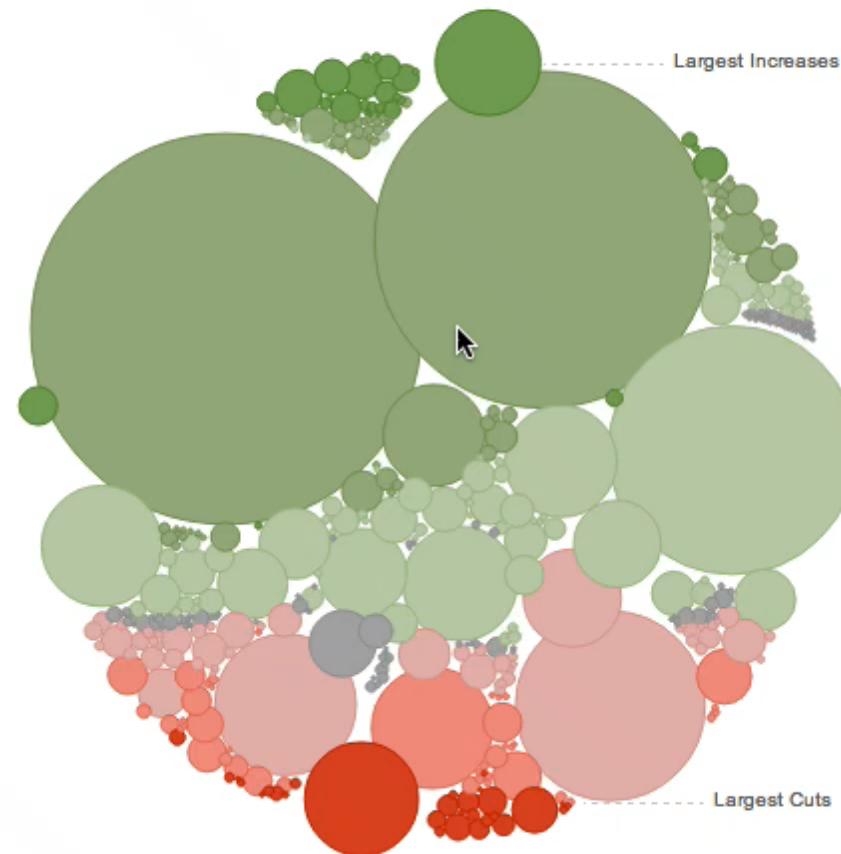
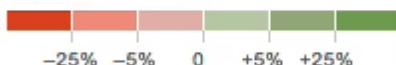
How \$3.7 Trillion Is Spent

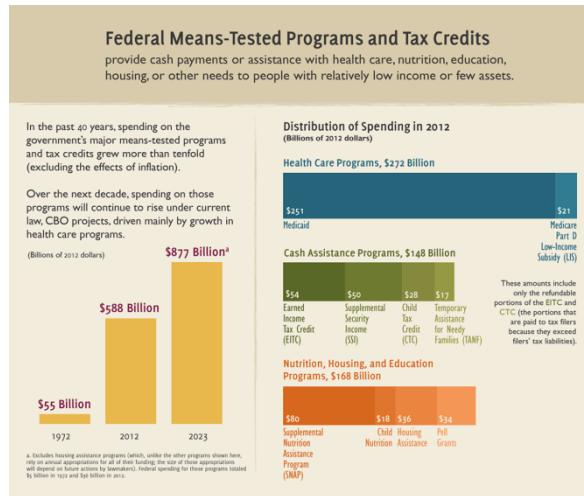
Mr. Obama's budget proposal includes \$3.7 trillion in spending in 2013, and forecasts a \$901 billion deficit.

Circles are sized according to the proposed spending.



Color shows amount of cut or increase from 2012.



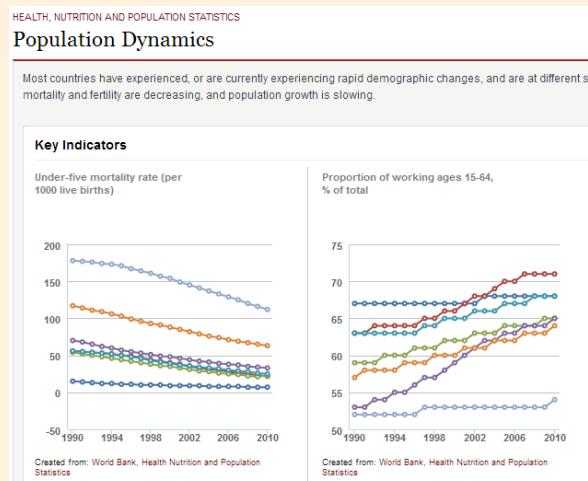
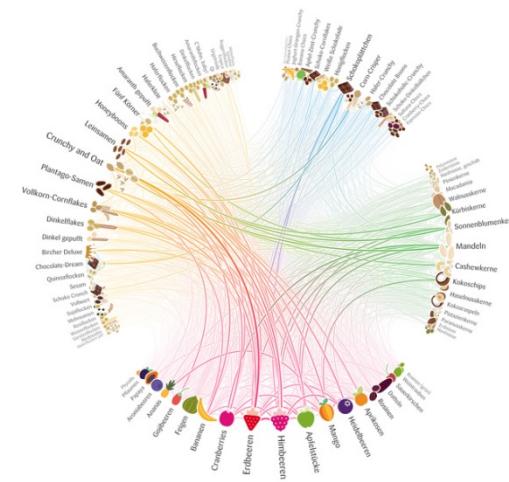


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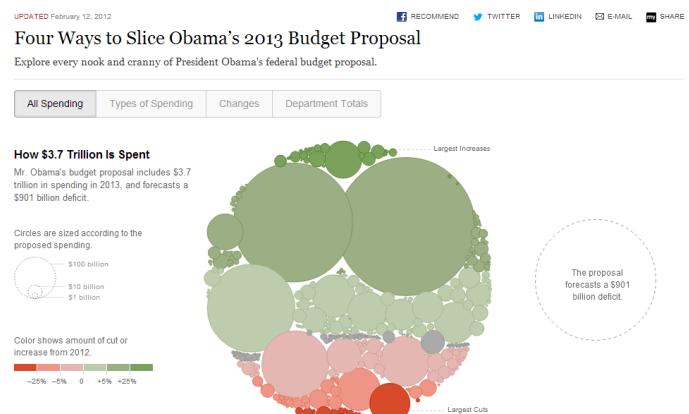


explanatory

exploratory



interactive

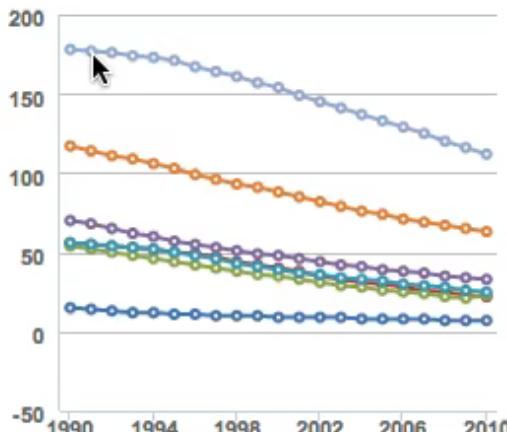


Population Dynamics

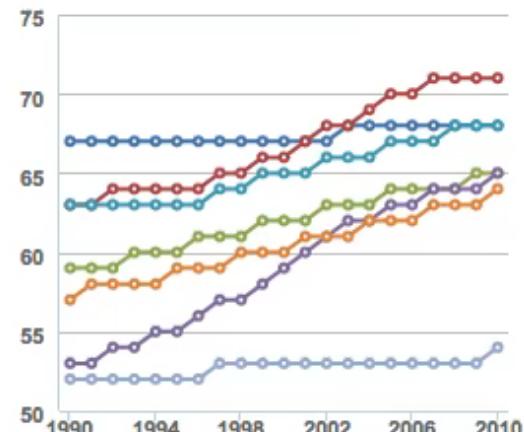
Most countries have experienced, or are currently experiencing rapid demographic changes, and are at different stages of their demographic transitions. Globally, both mortality and fertility are decreasing, and population growth is slowing.

Key Indicators

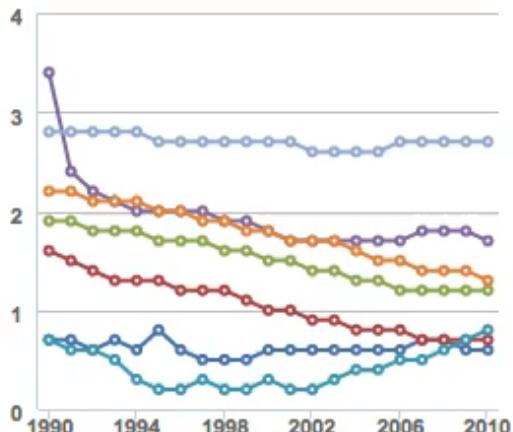
Under-five mortality rate (per 1000 live births)



Proportion of working ages 15-64, % of total



Population growth rate (annual %)



Created from: World Bank, Health Nutrition and Population Statistics

Created from: World Bank, Health Nutrition and Population Statistics

Created from: World Bank, Health Nutrition and Population Statistics

512 Paths to the White House

Select a winner in the most competitive states below to see all the paths to victory available for either candidate.

Fla.

Dem Rep

Ohio

Dem Rep

N.C.

Dem Rep

Va.

Dem Rep

Wis.

Dem Rep

Colo.

Dem Rep

Iowa

Dem Rep

Nev.

Dem Rep

N.H.

Dem Rep

Obama has 431 ways to win

84% of paths

5 ties

0.98% of paths

Romney has 76 ways to win

15% of paths

Florida

If Obama wins Florida...



Ohio

If Romney wins Florida...



North Carolina



Virginia



Wisconsin



Colorado



Iowa

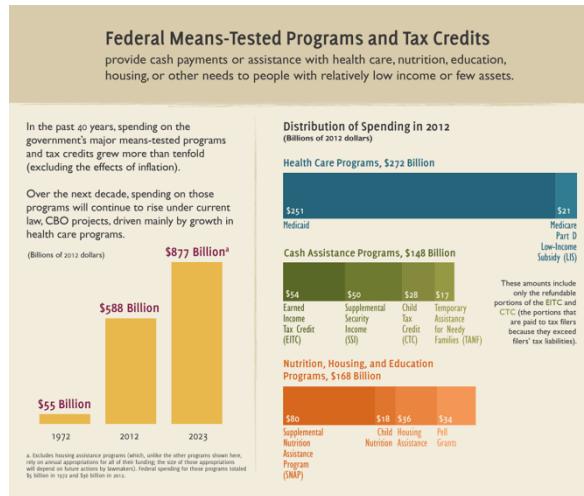


Nevada

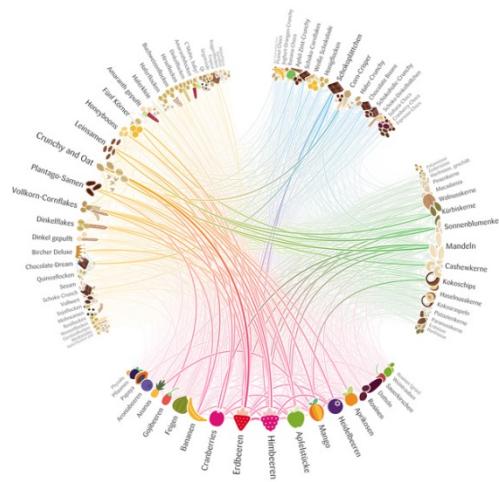


New Hampshire





static



explanatory

exploratory

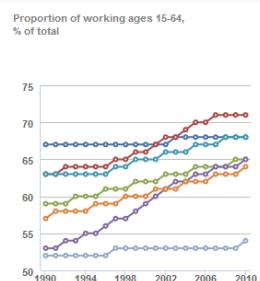
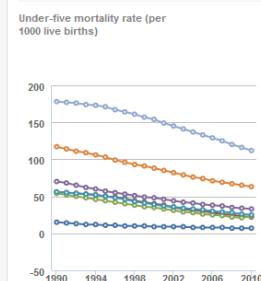


HEALTH, NUTRITION AND POPULATION STATISTICS

Population Dynamics

Most countries have experienced, or are currently experiencing rapid demographic changes, and are at different stages of transition. Mortality and fertility are decreasing, and population growth is slowing.

Key Indicators



interactive

Four Ways to Slice Obama's 2013 Budget Proposal

Explore every nook and cranny of President Obama's federal budget proposal.

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How \$3.7 Trillion Is Spent

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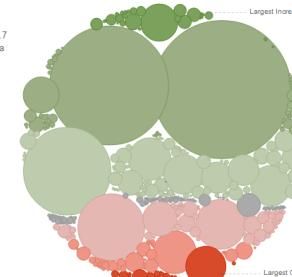
Circles are sized according to the proposed spending.

\$100 billion
\$10 billion
\$1 billion

Color shows amount of cut or increase from 2012:

-25% -5% 0 +5% +25%

Largest Increases
Largest Cuts



The proposal forecasts a \$901 billion deficit.



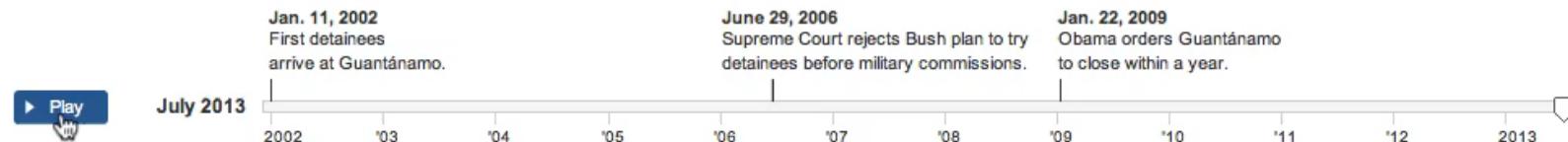
15644 planes

17:58 EST

Aaron Koblin

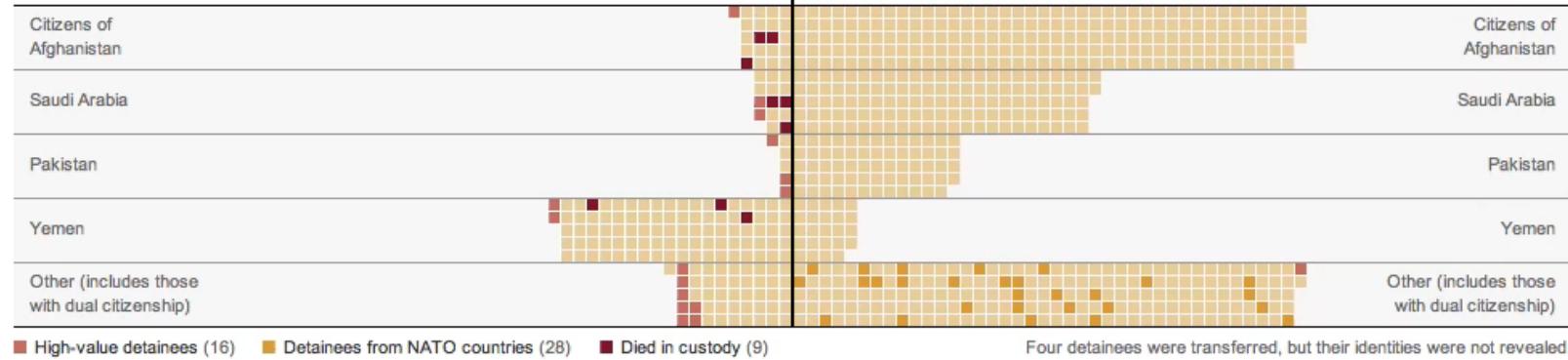
UPDATED Dec. 11, 2012

A History of the Detainee Population



166 Detainees Held

604 Detainees Transferred



A Selection of the Detainees

The men presented below were selected by The Times to provide a cross section of the government cases against the detainees. Click the to read the government's previously secret risk assessment of the prisoner.



Abdul Rahman Mohamed Saleh Naser
Hunger striker, history of major depressive disorder but refuses antidepressant, the report says.



Saifullah Paracha
American resident accused of offering to use his business to help Al Qaeda smuggle weapons into the United States.



Omar Hamzayovich Abdulayev
After consultation with Russian and Tajik intelligence officers, American military analysts remain uncertain who he is.



Yasser Talal al-Zahrani
One of three detainees who the Pentagon said hanged themselves in their cells on the same day.

Detainee Citizenship

Afghanistan	220
Saudi Arabia	134
Yemen	116
Pakistan	72
Algeria	26

[See all countries where detainees are citizens »](#)

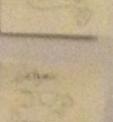
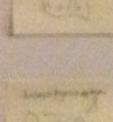
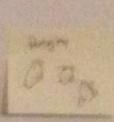
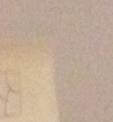
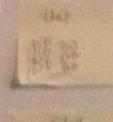
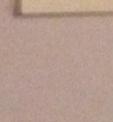
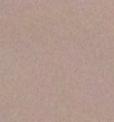
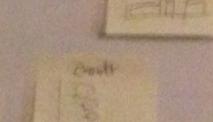
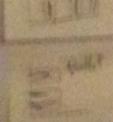
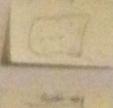
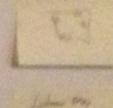
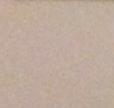
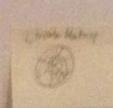
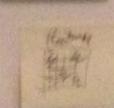
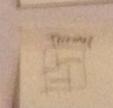
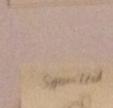
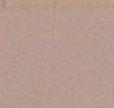
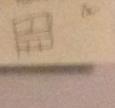
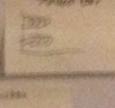
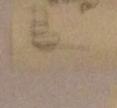
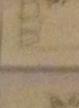
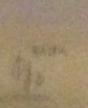
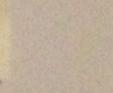
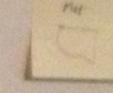
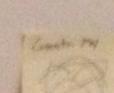
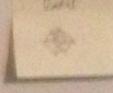
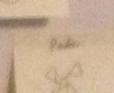
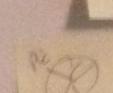
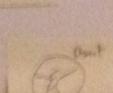
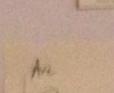
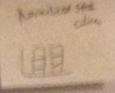
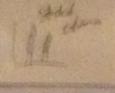
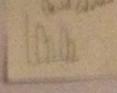
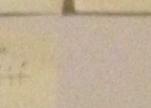
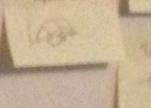
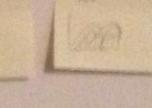
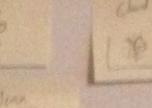
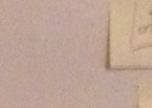
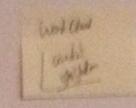
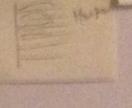
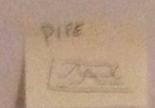
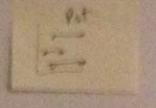
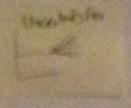
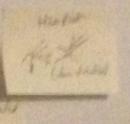
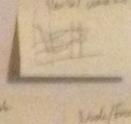
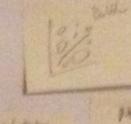
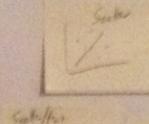
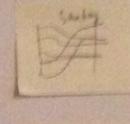
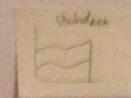
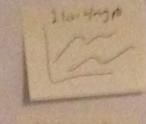
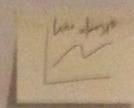
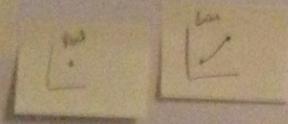
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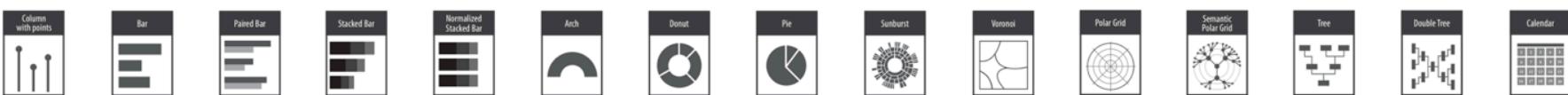
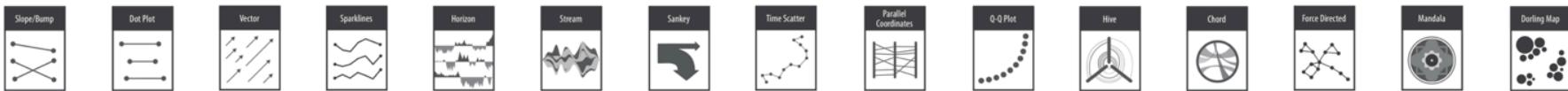
Afghanistan	199
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Graphic Continuum

Baker Test areas

TABLE





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This chart can guide graphic choices, but your imagination can lead the way to other effective ways to present data.

COMPARING CATEGORIES

Compare values across categories



A Map with Geohashes relates data to geographic differences

Relate data to its geography



PART-TO-WHOLE

Visualizations that relate the part of a variable to its total



RELATIONSHIP

Illustrates correlations or relationships between variables



DISTRIBUTION

Graphical representations of the distribution of data



TIME

Track changes over time



GEOSPATIAL

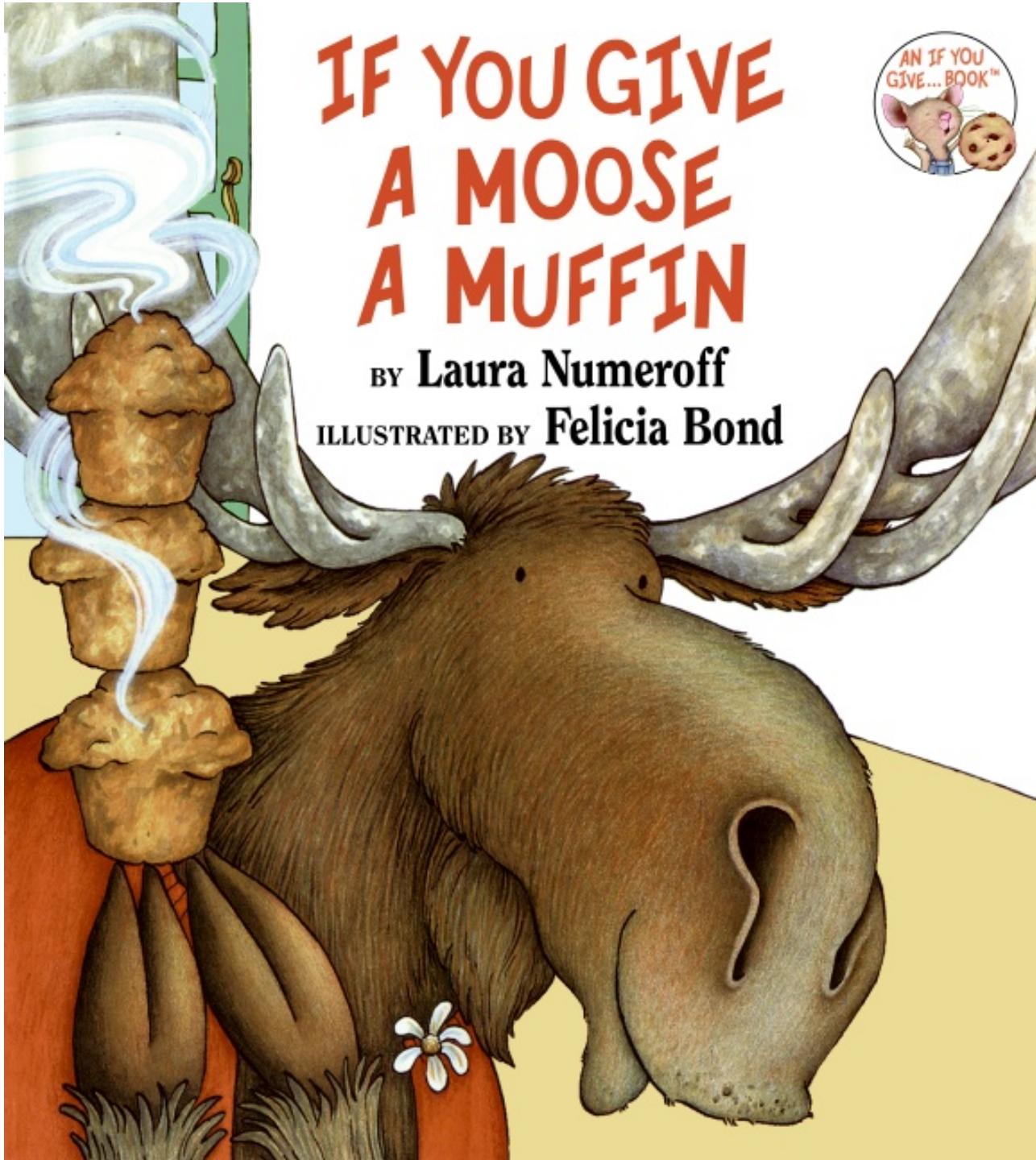
Relate data to its geography

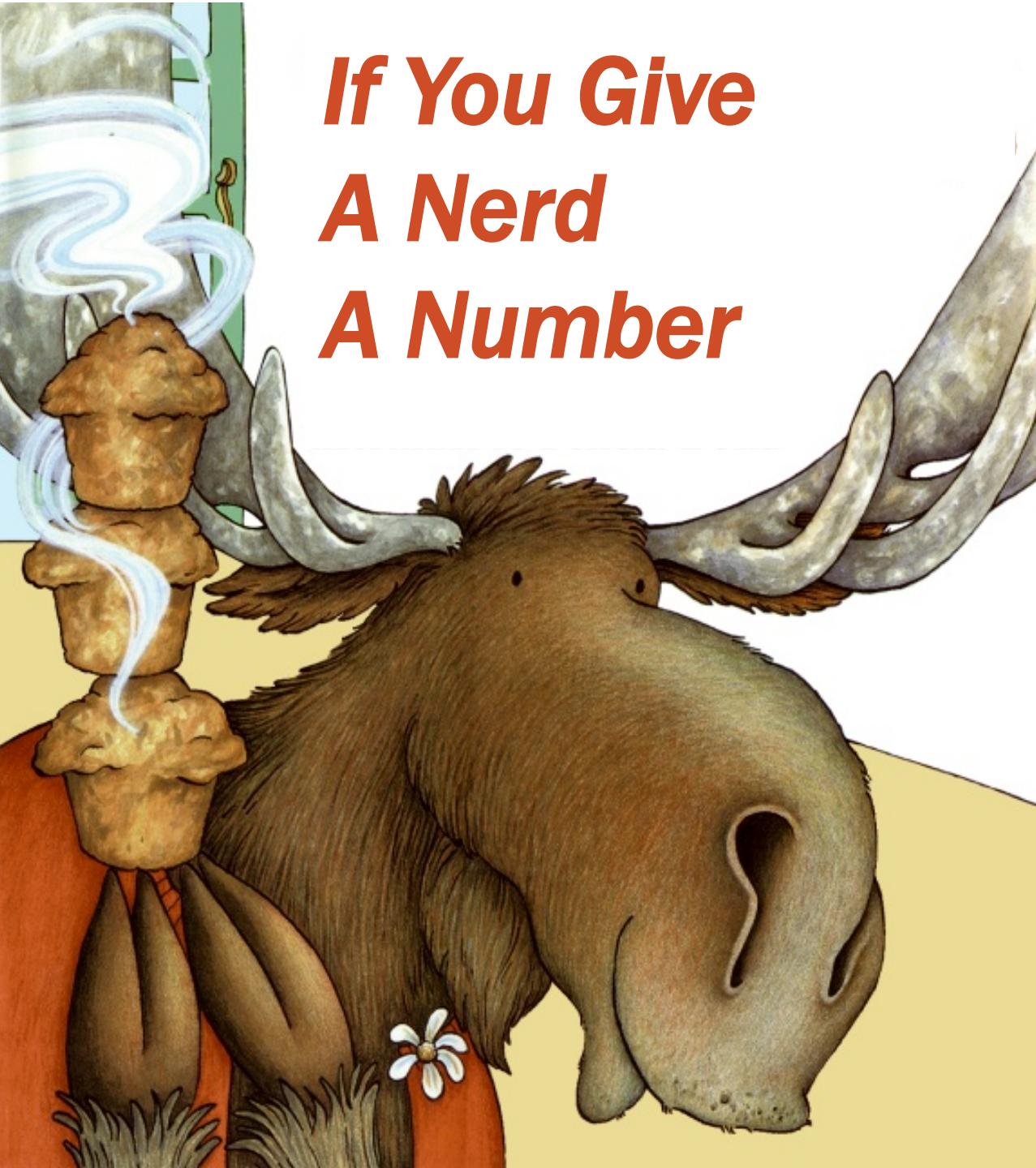


IF YOU GIVE A MOOSE A MUFFIN

BY Laura Numeroff

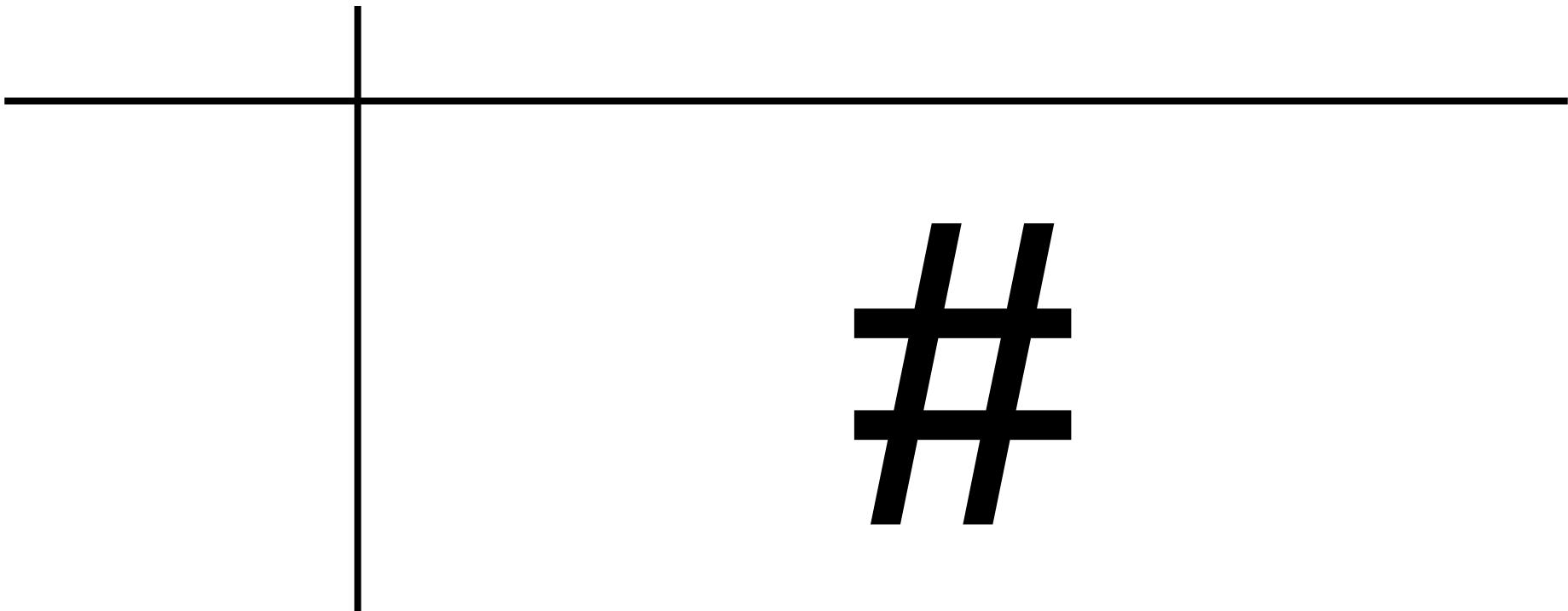
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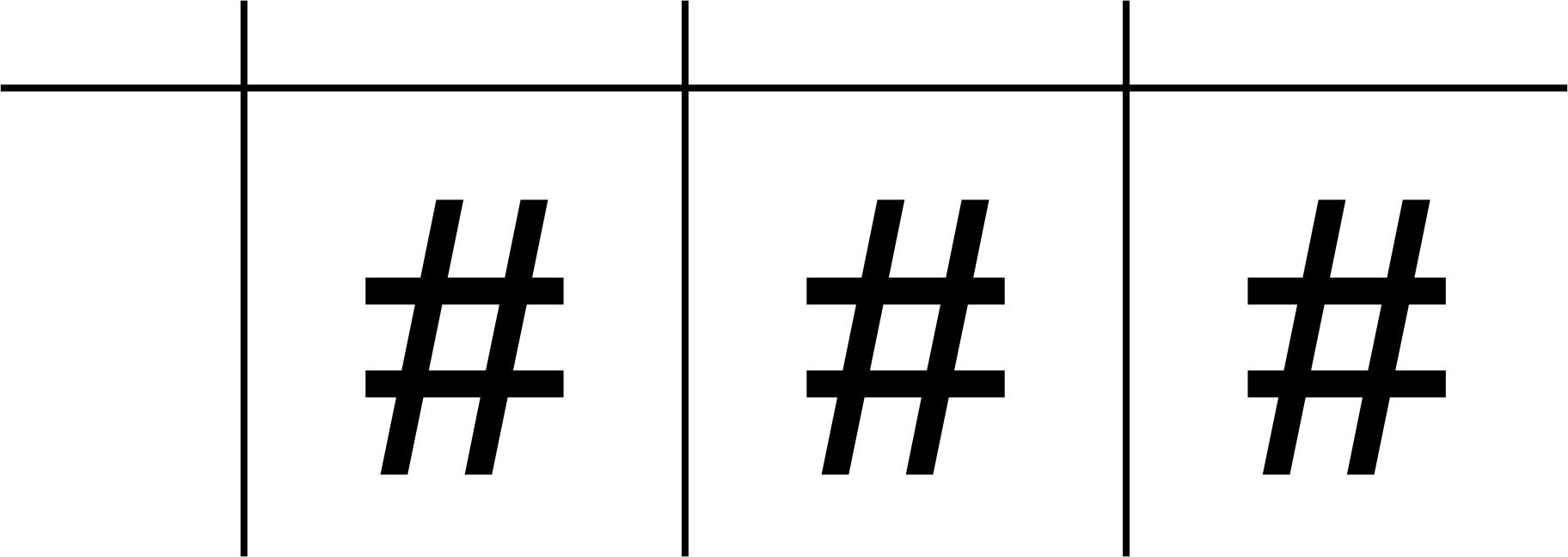




If You Give A Nerd A Number

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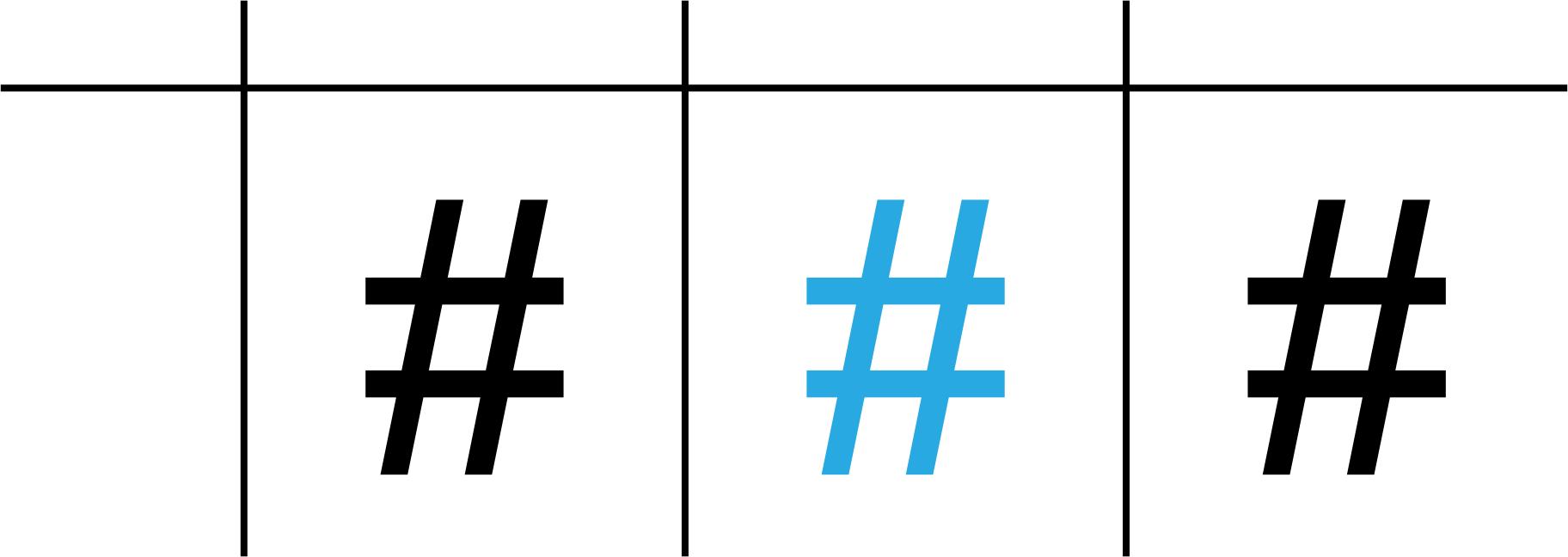




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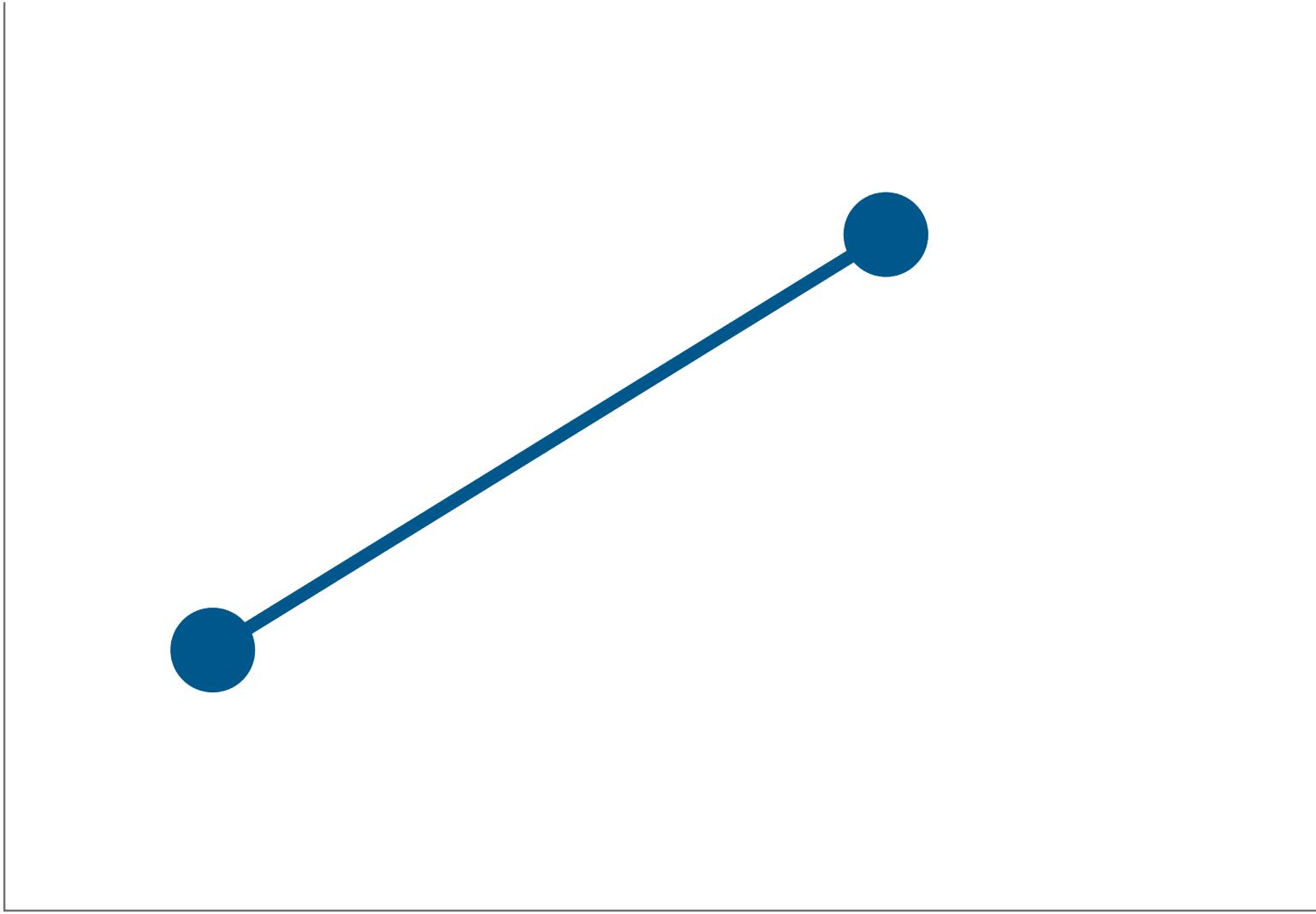


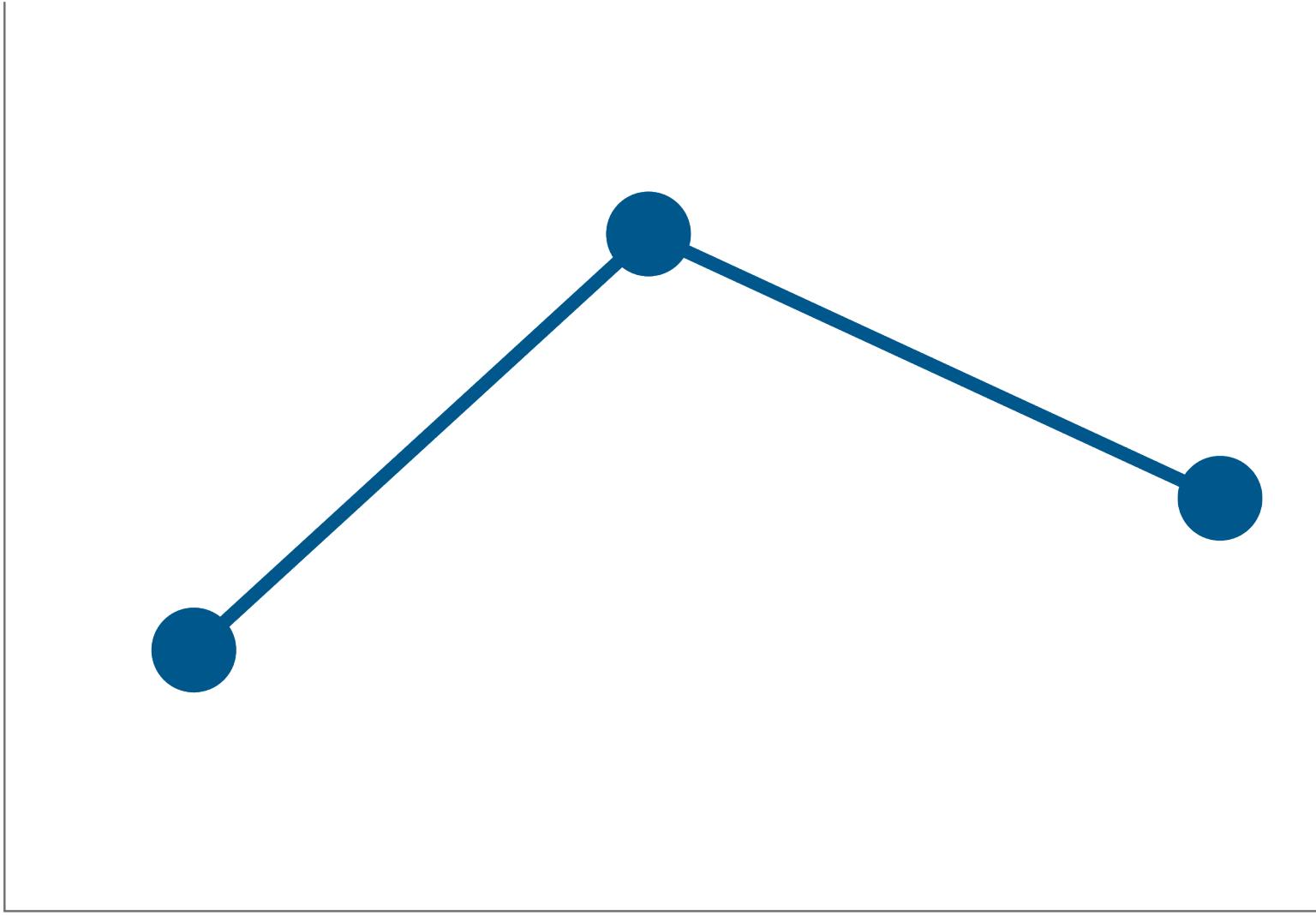
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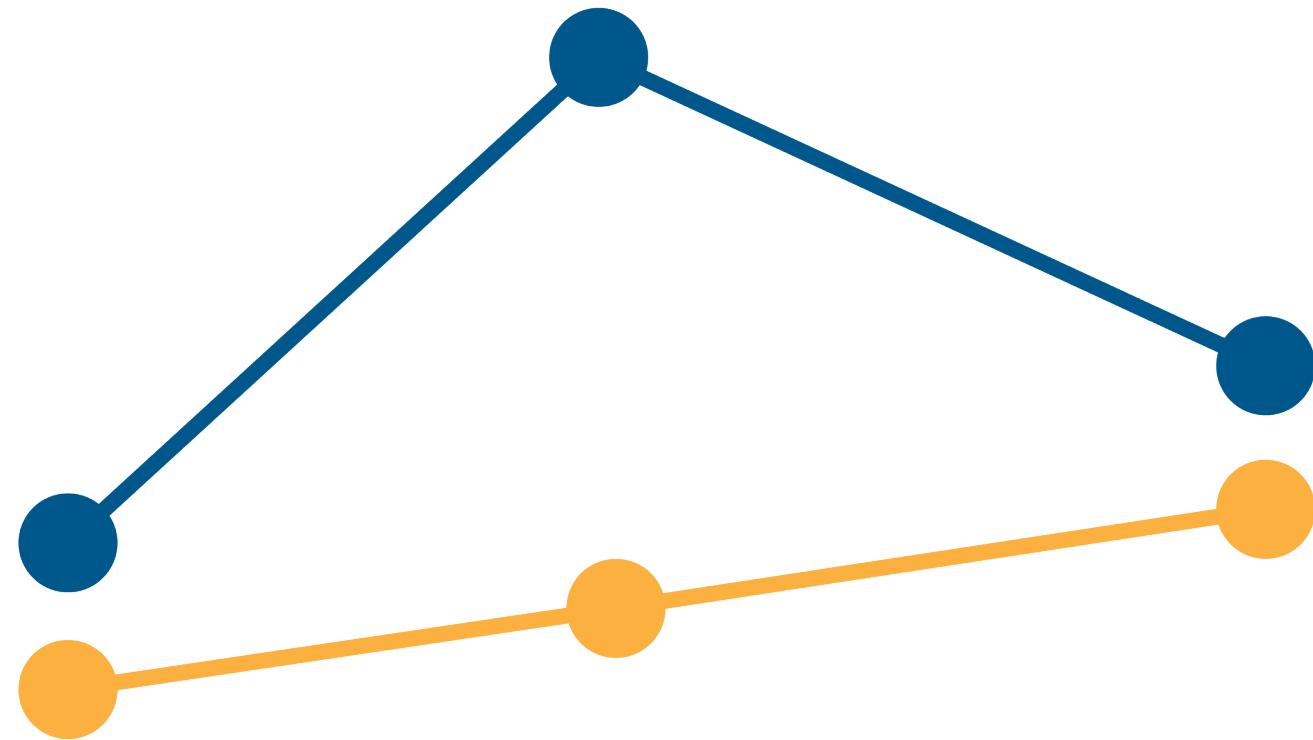
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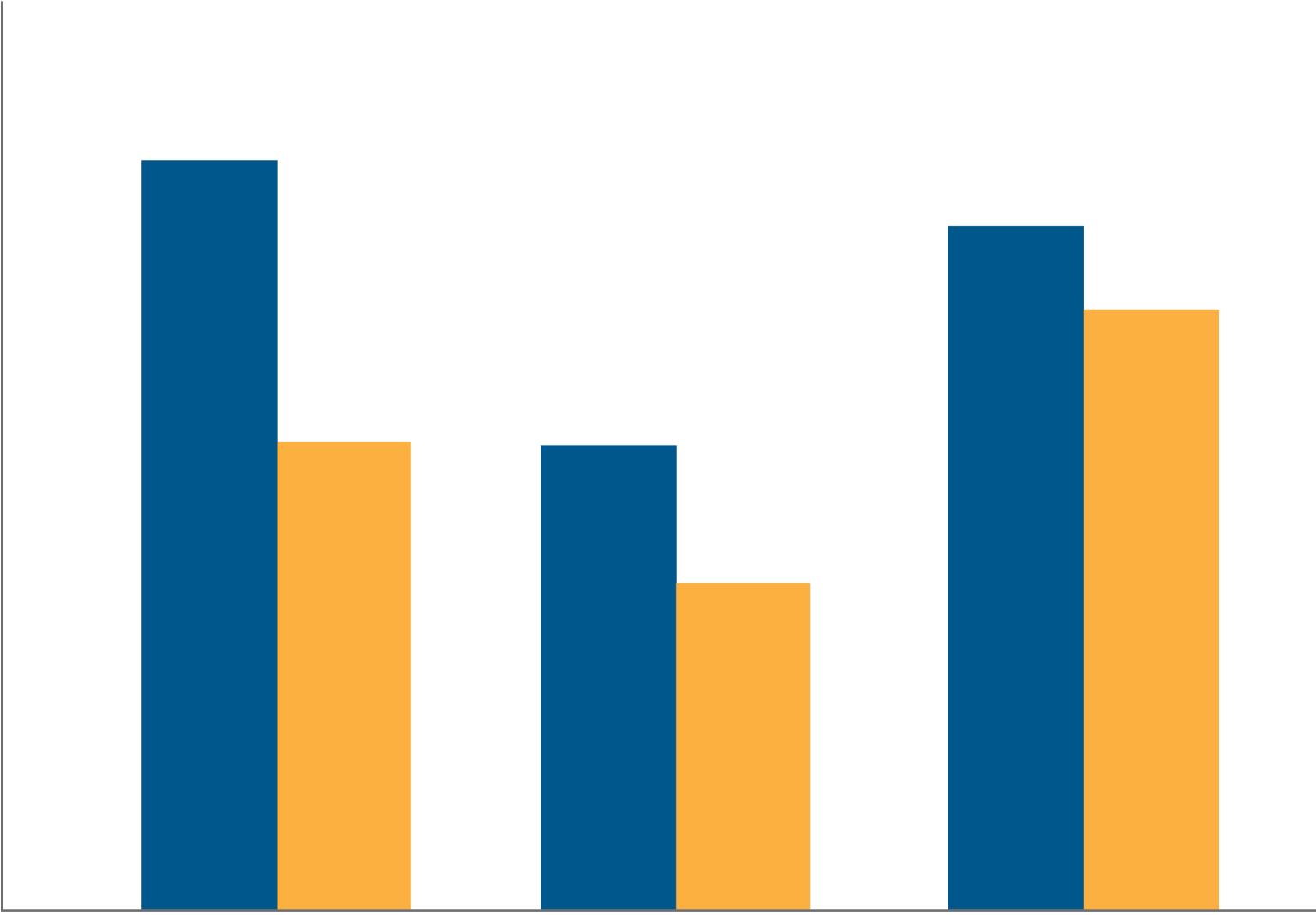








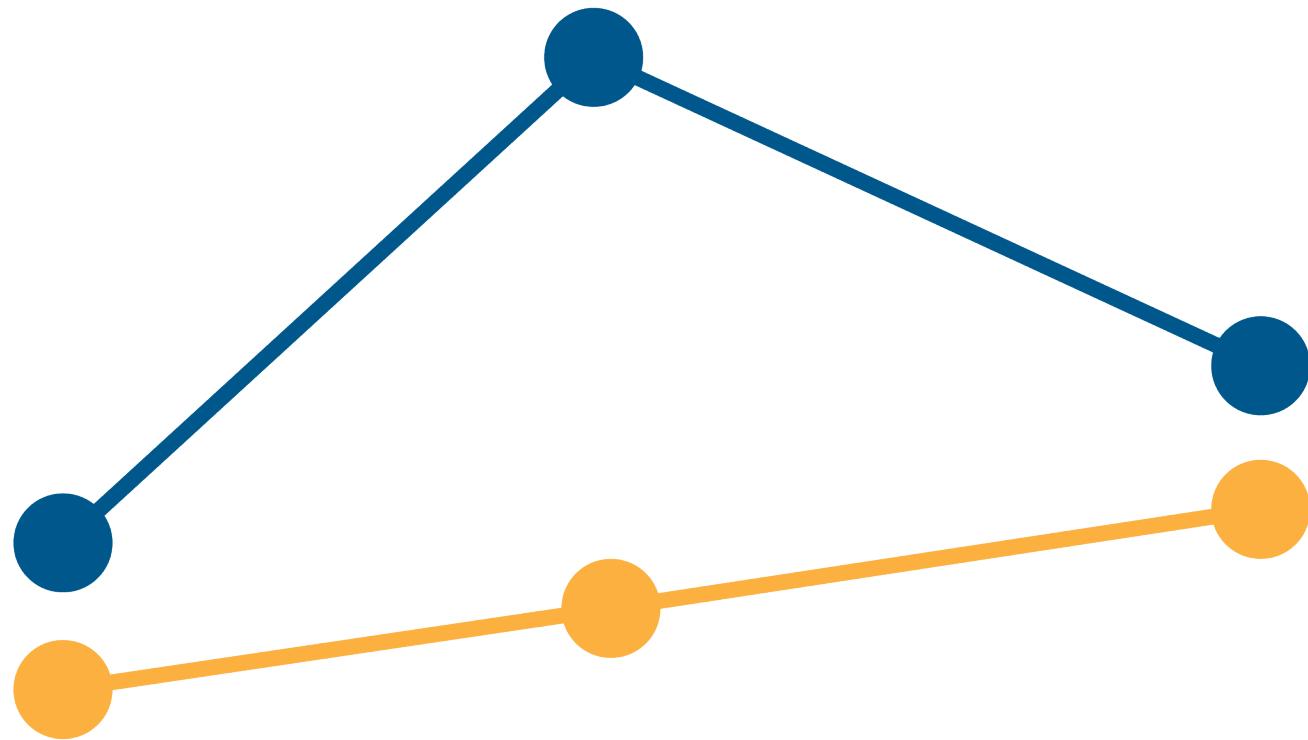


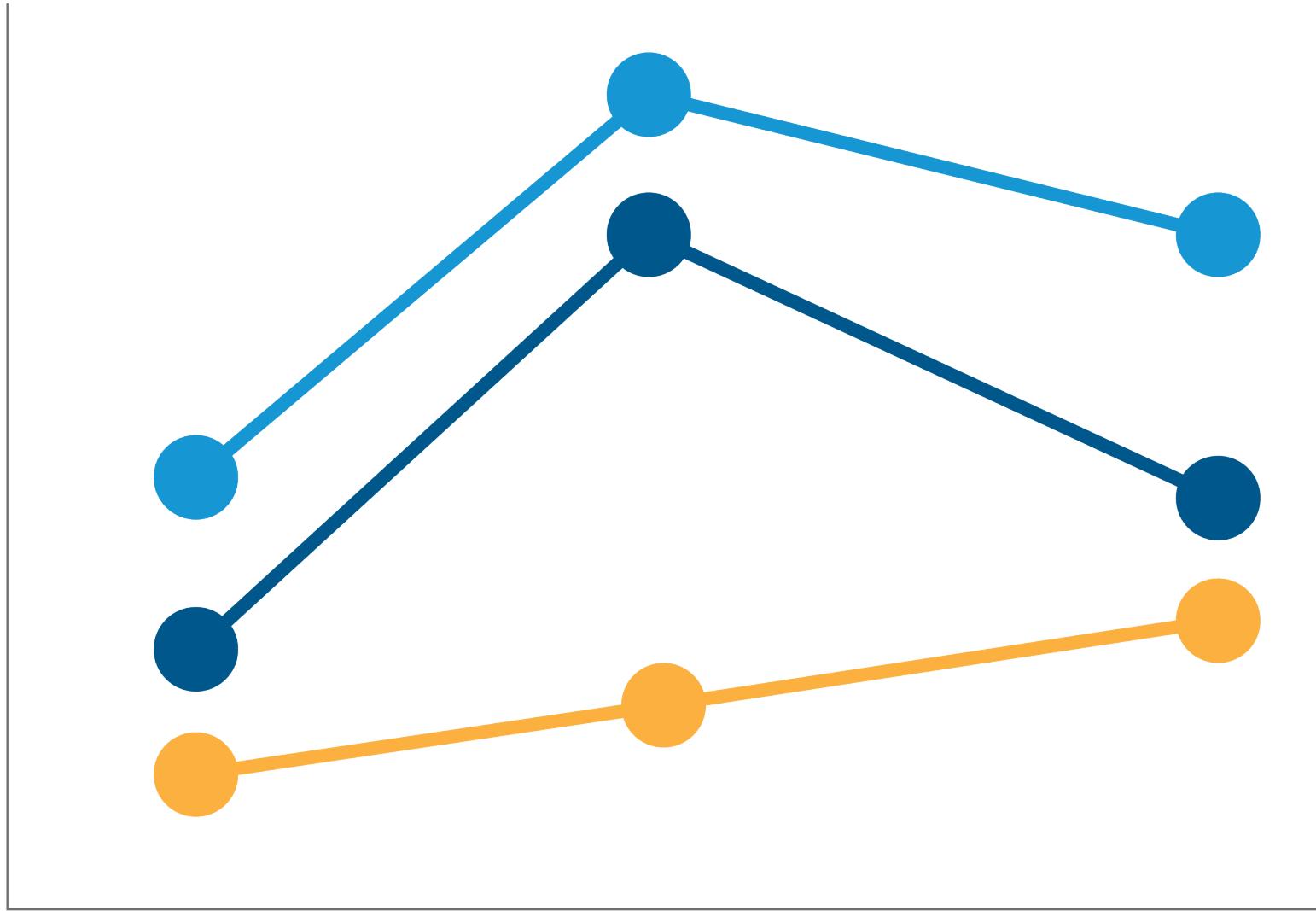


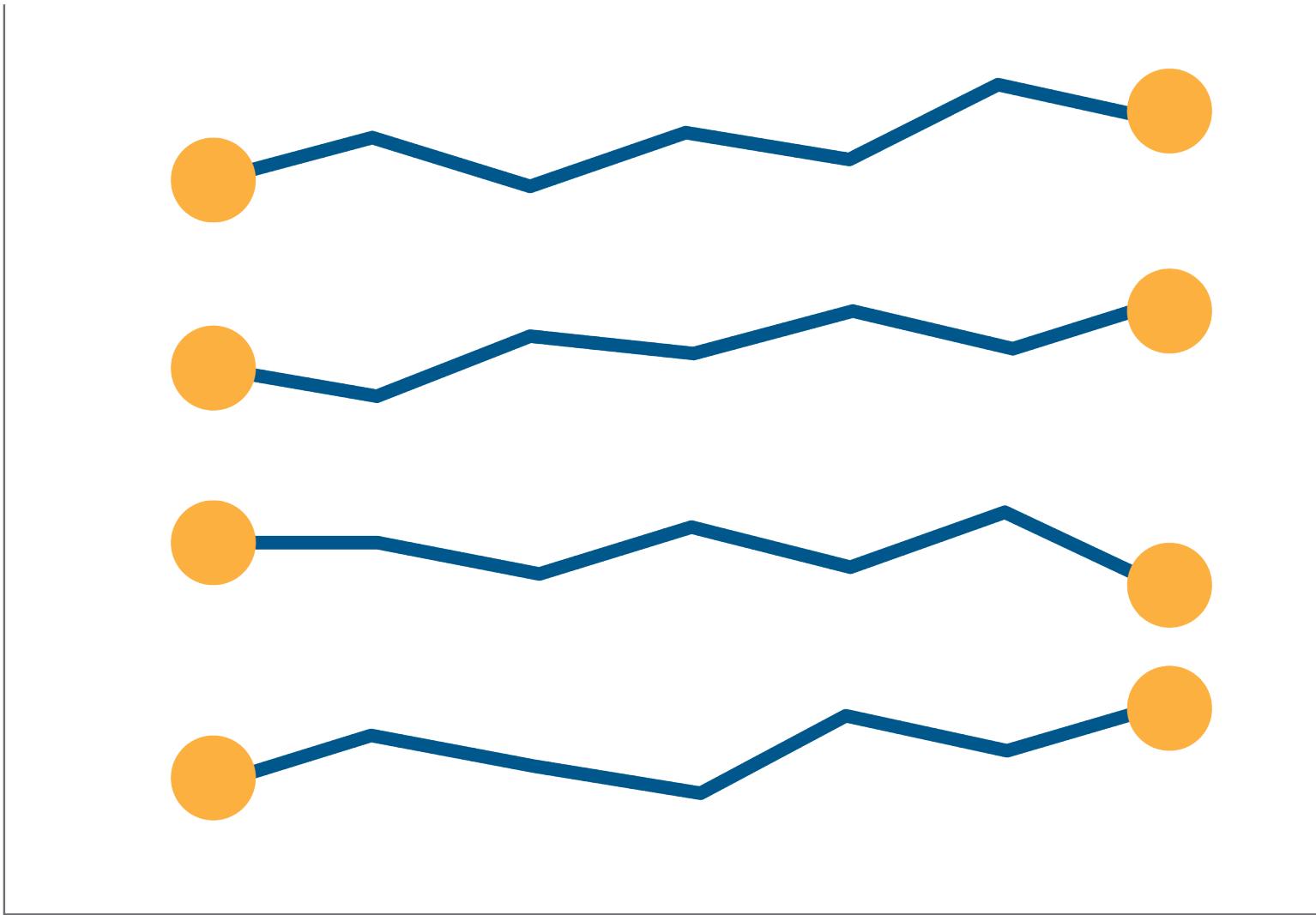


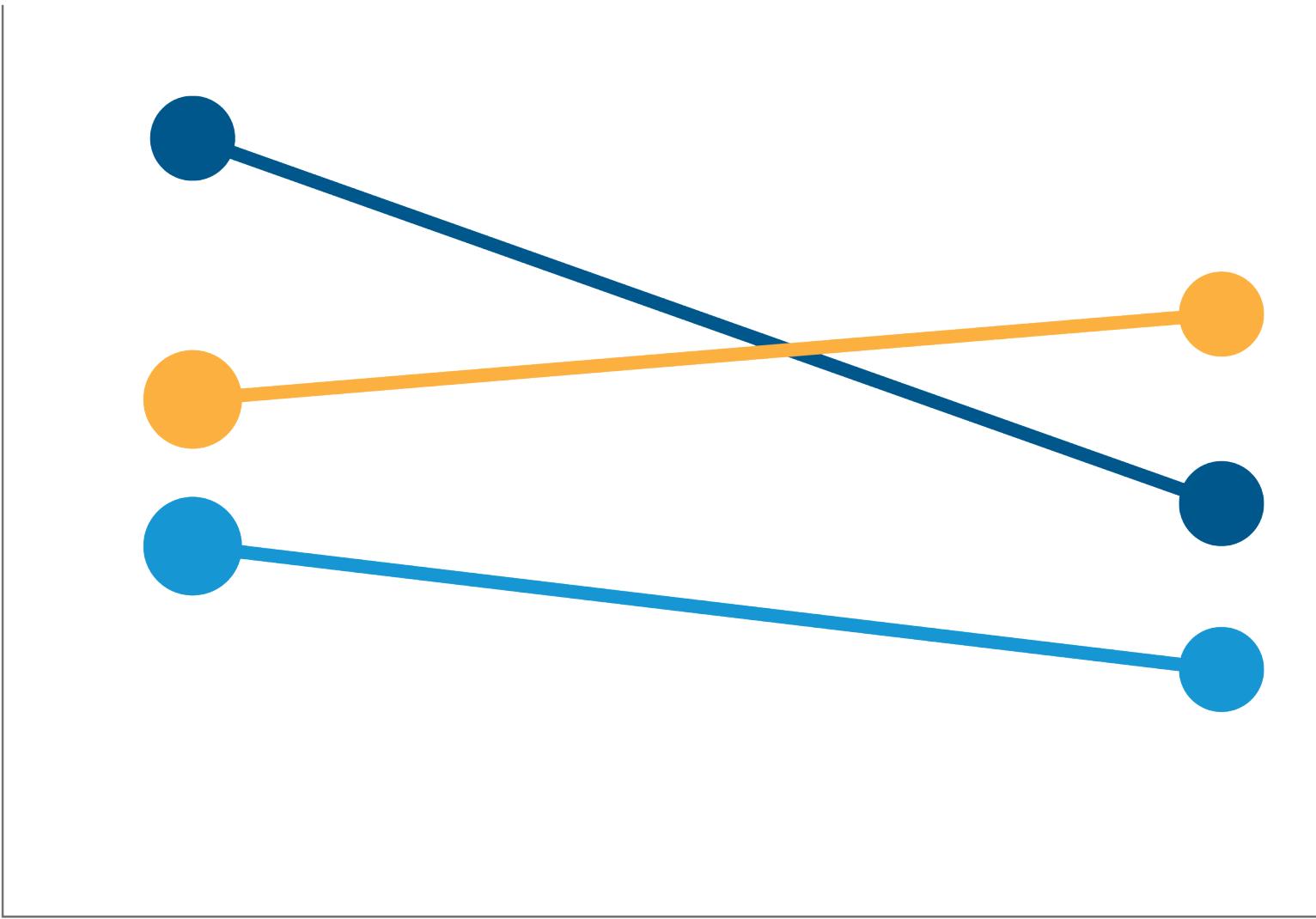


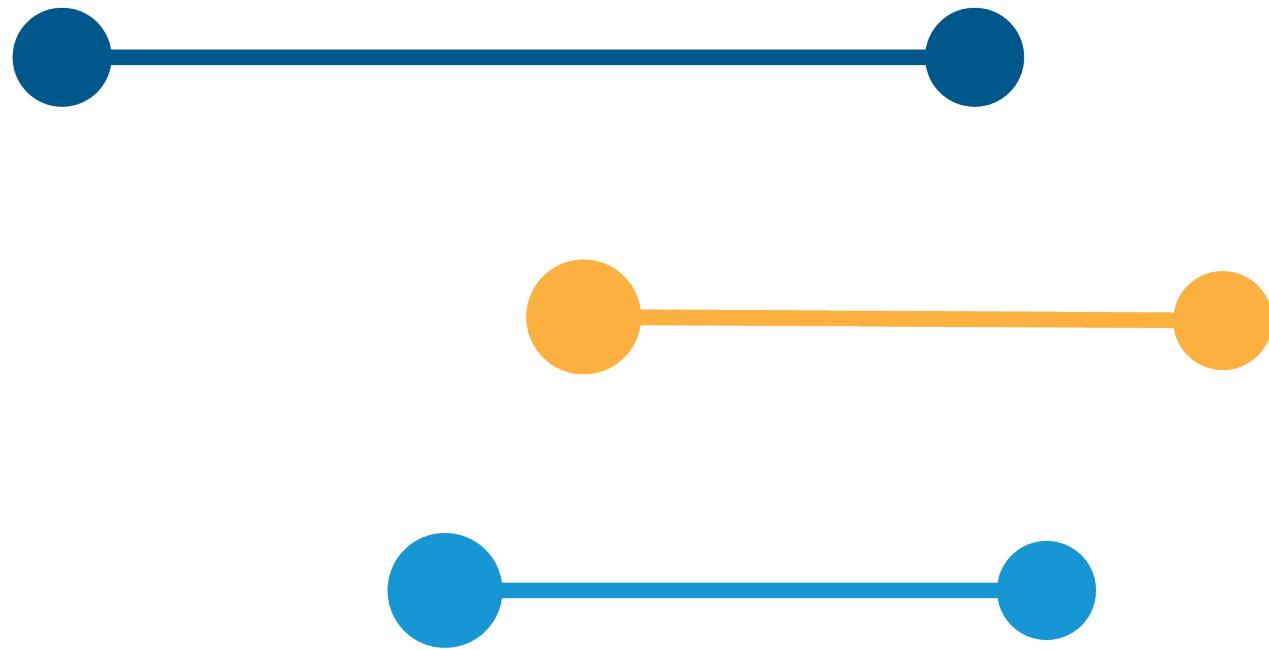


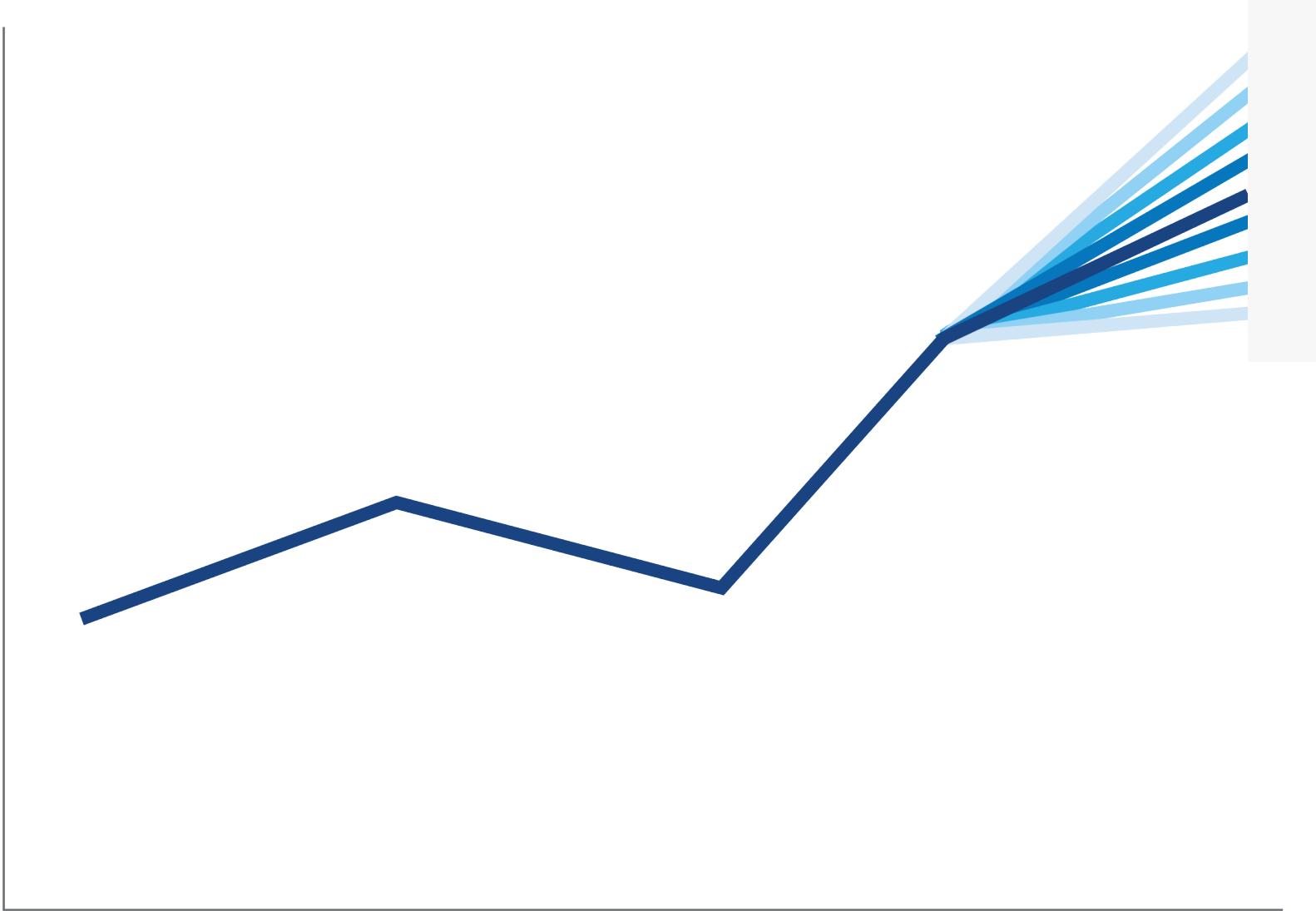


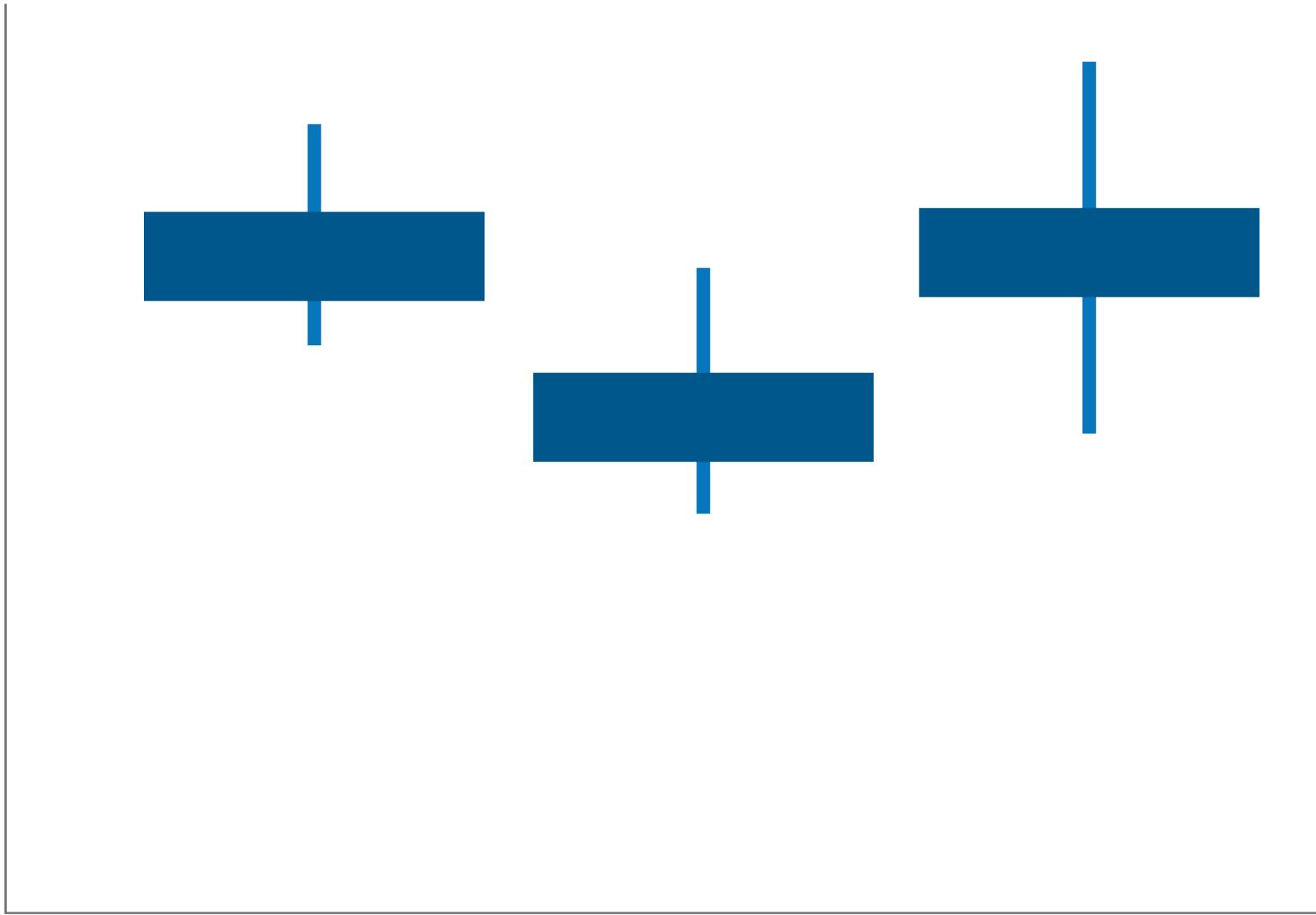


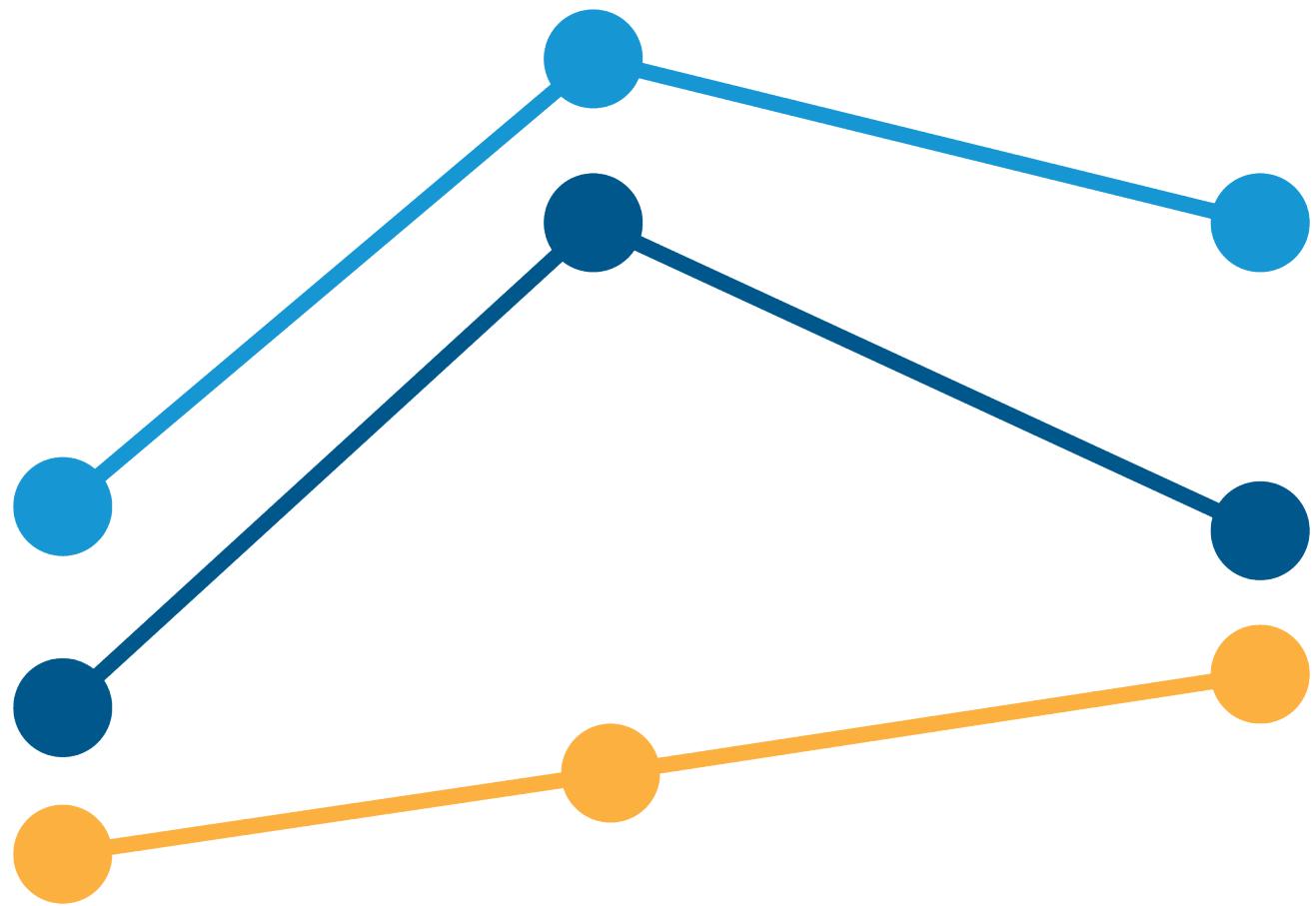


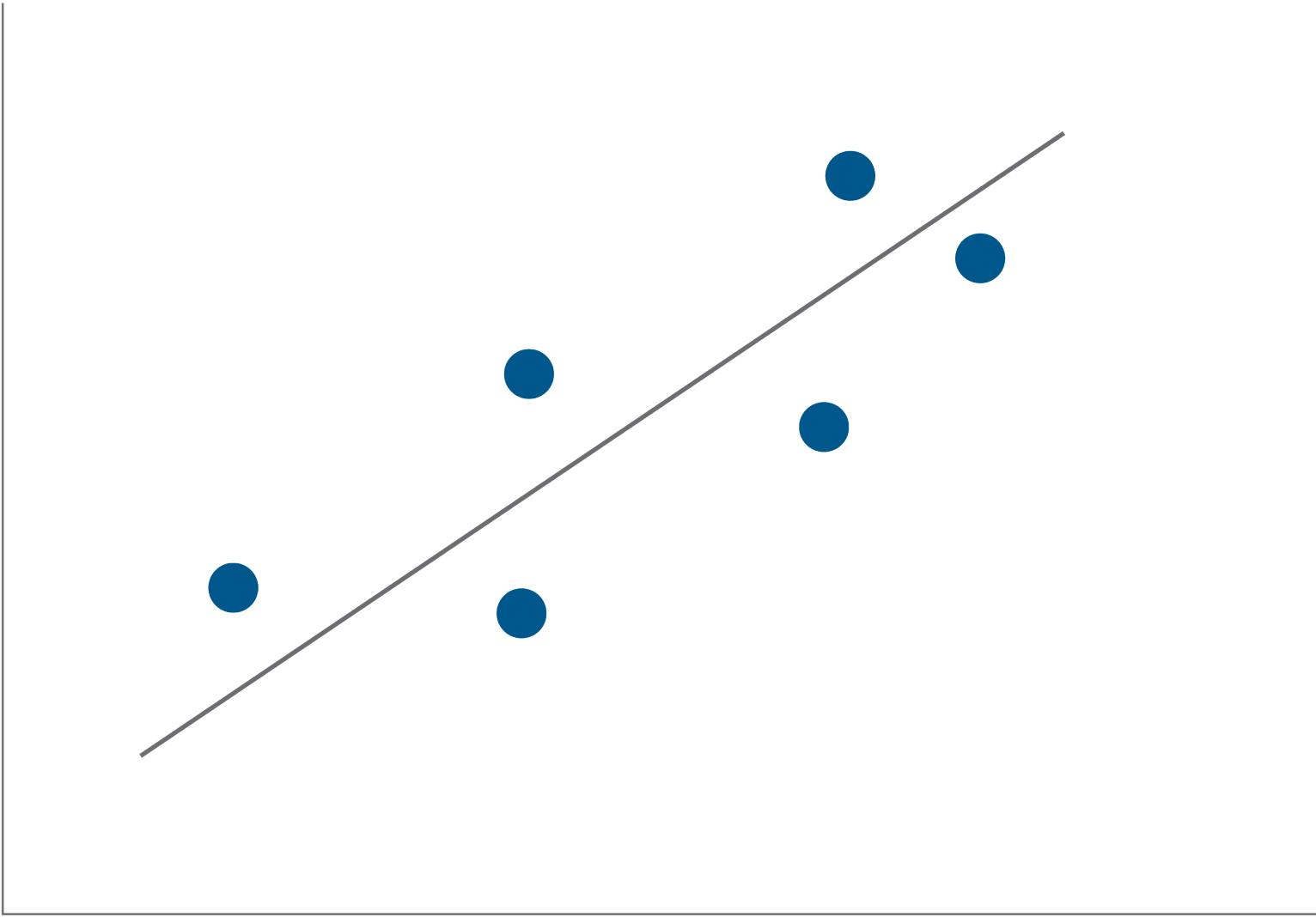


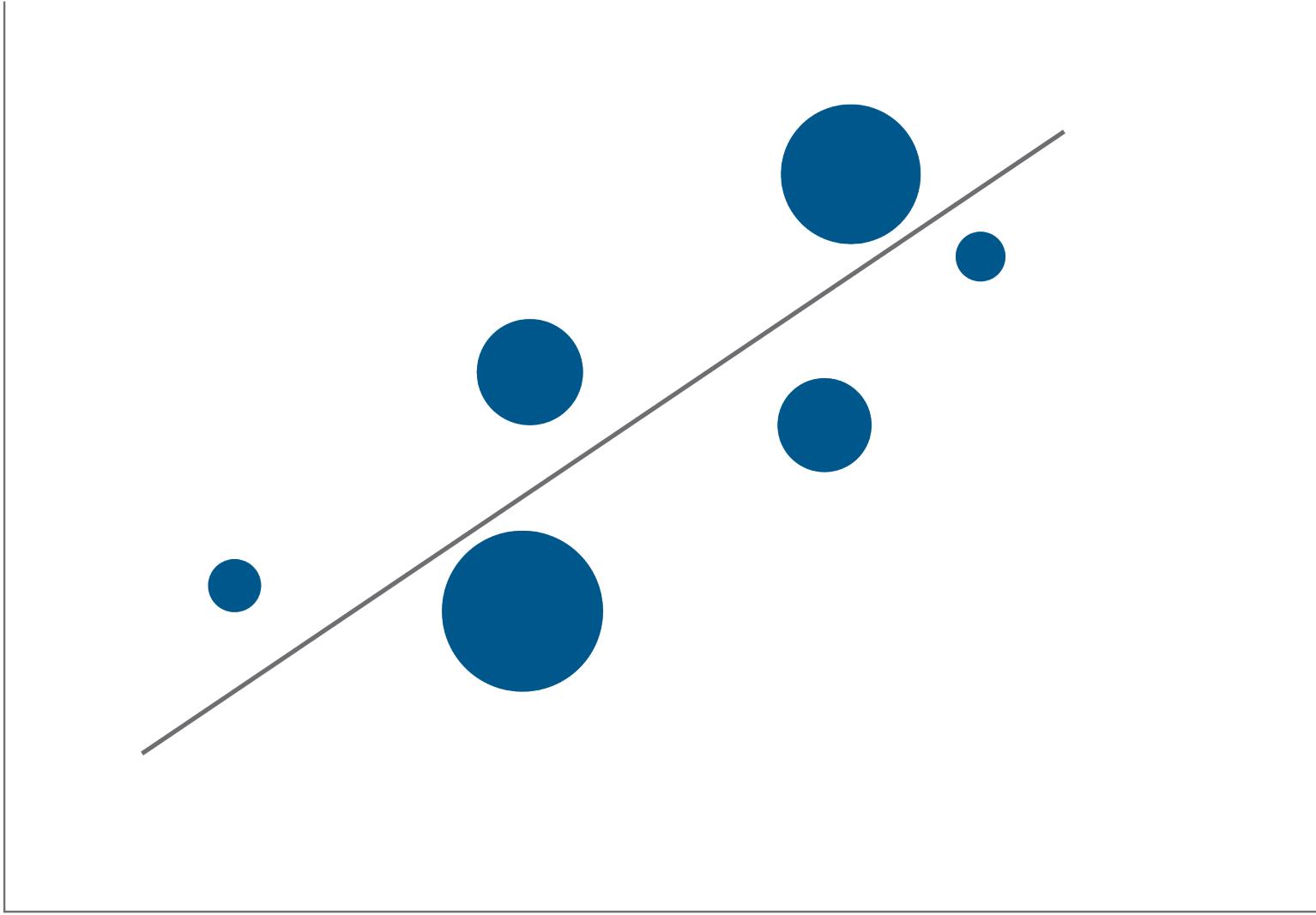


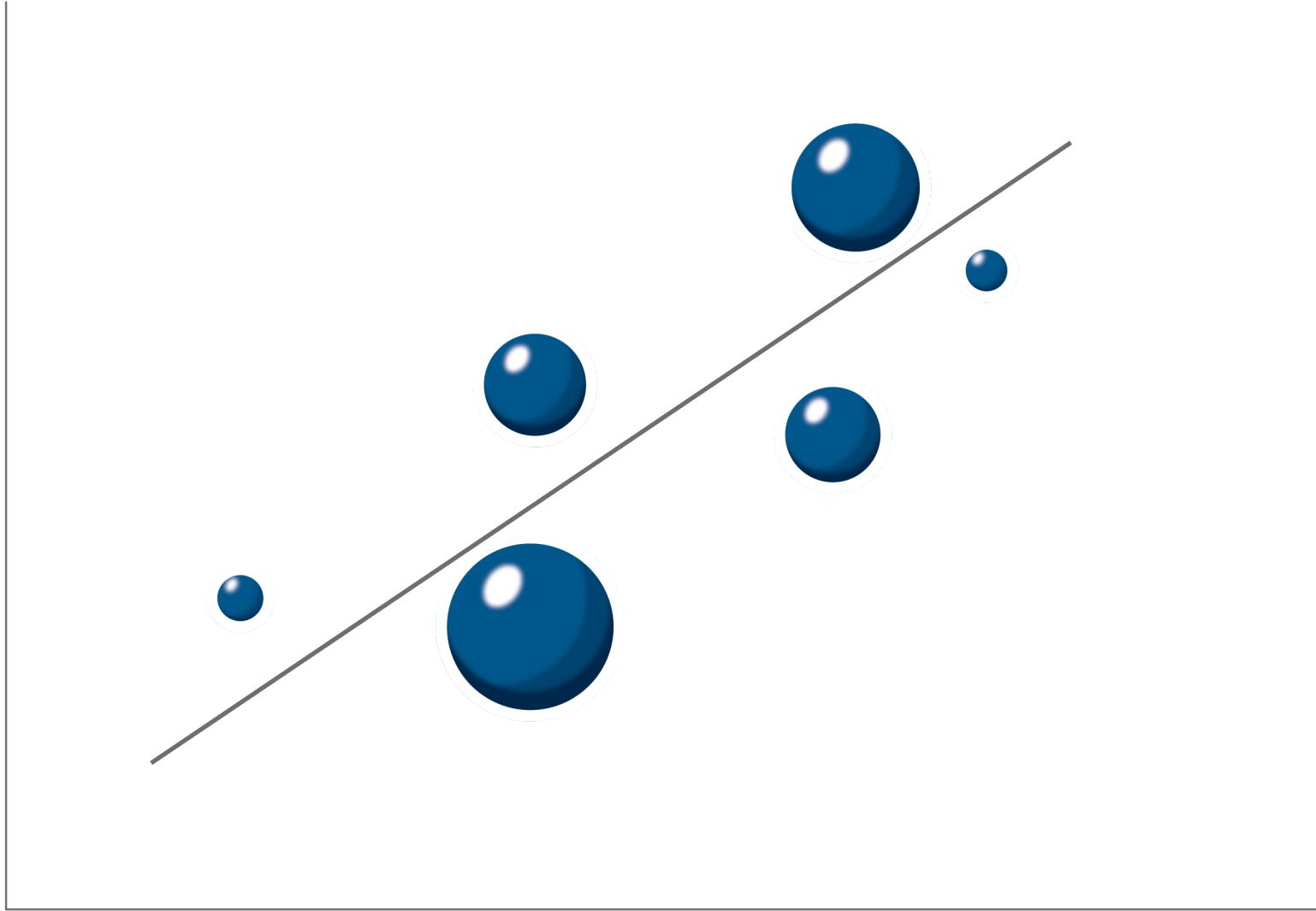


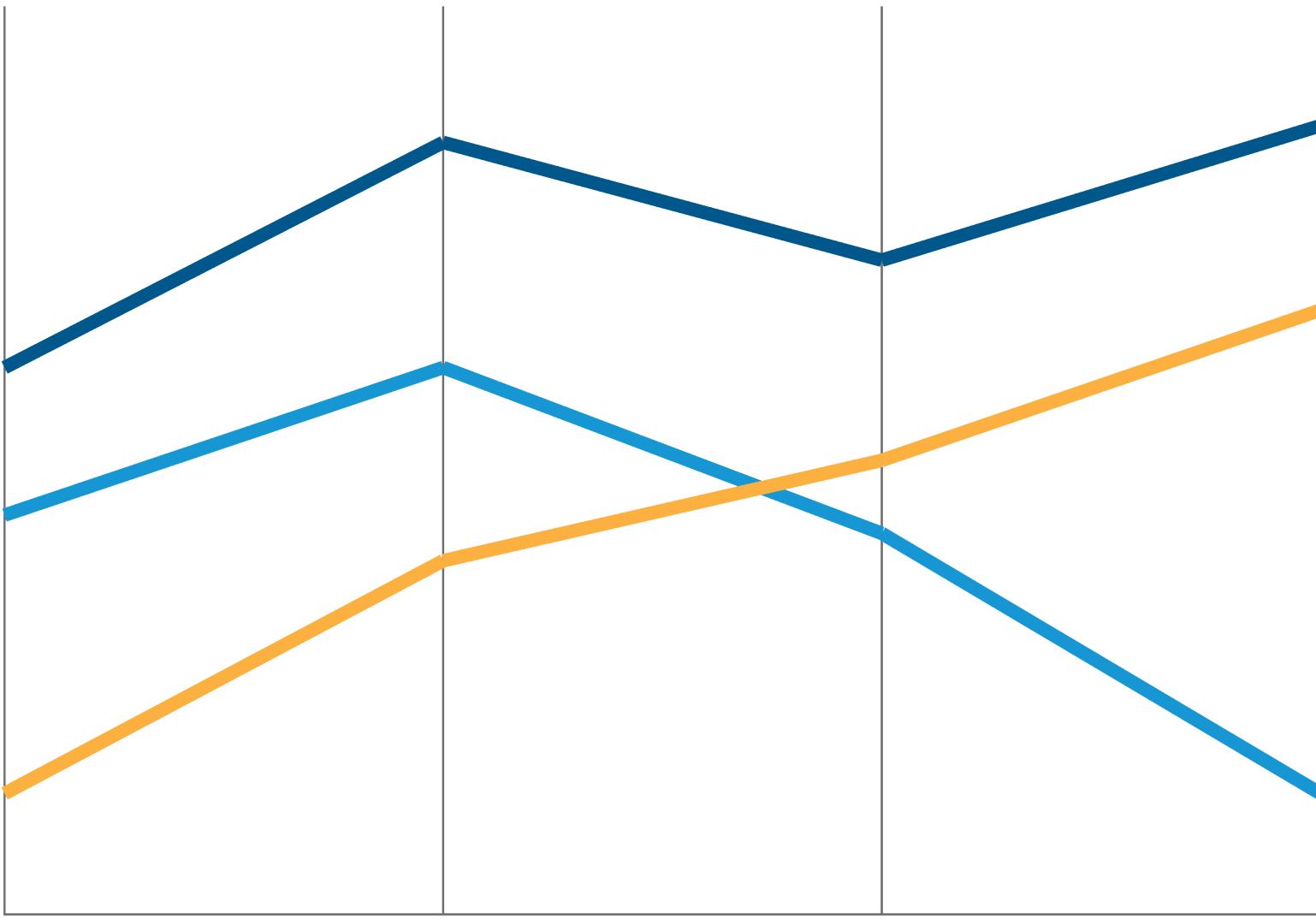


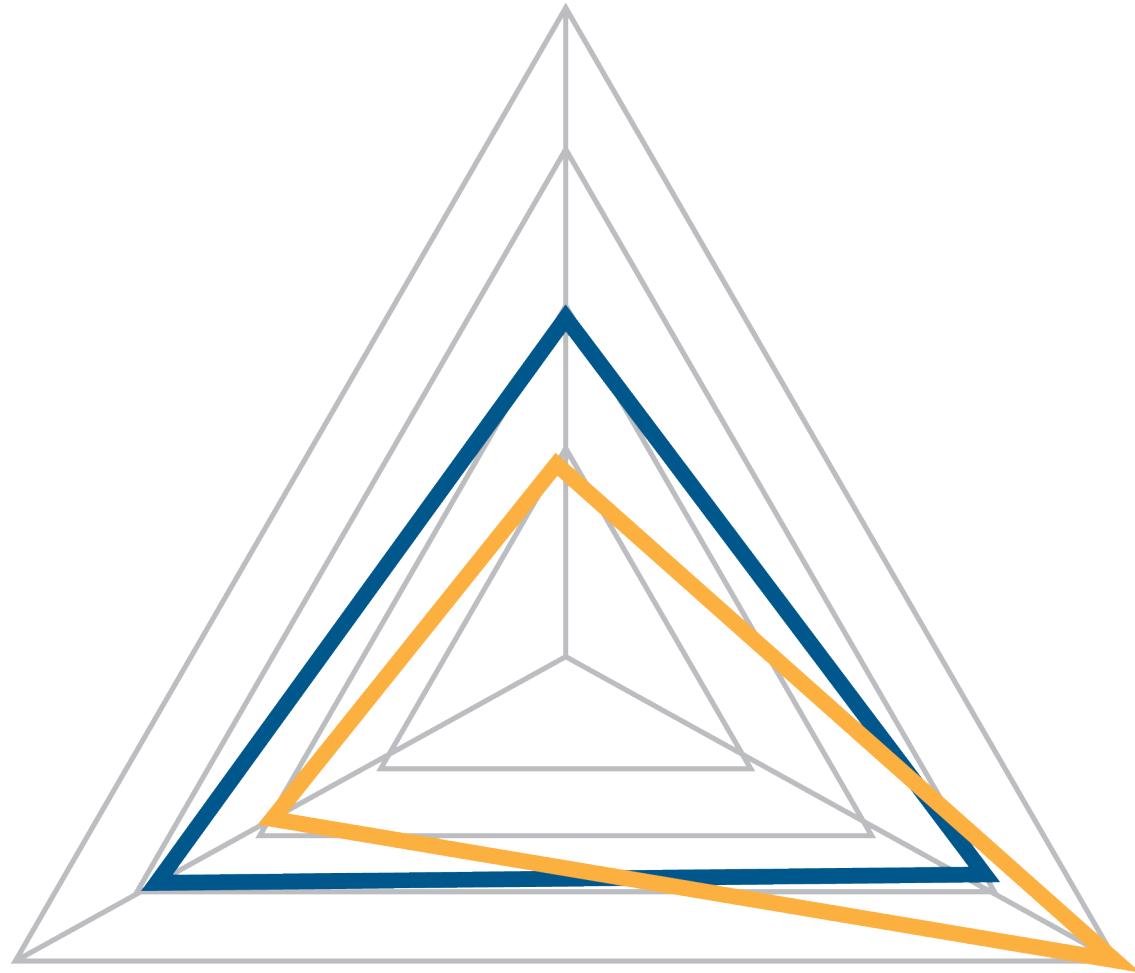


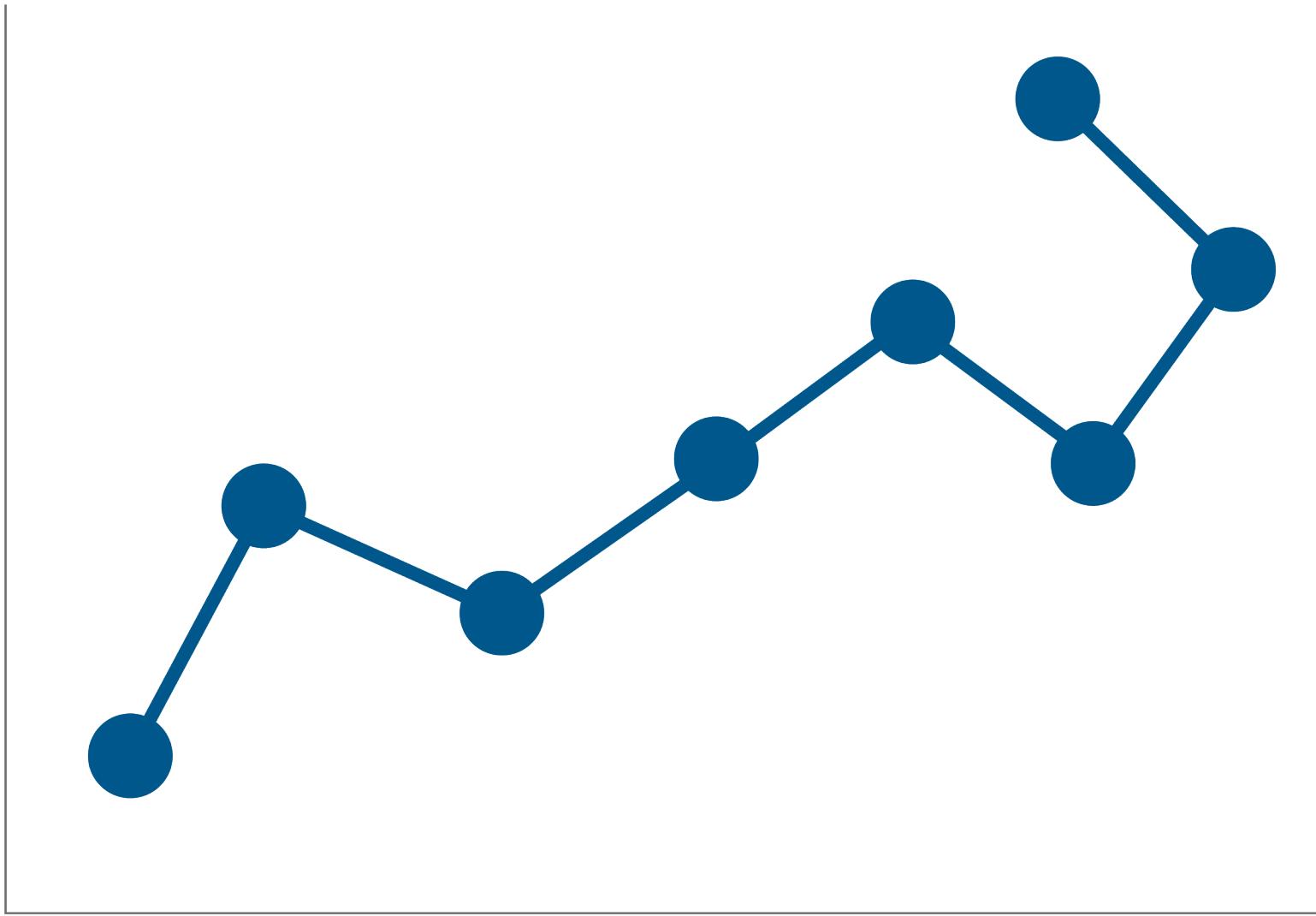


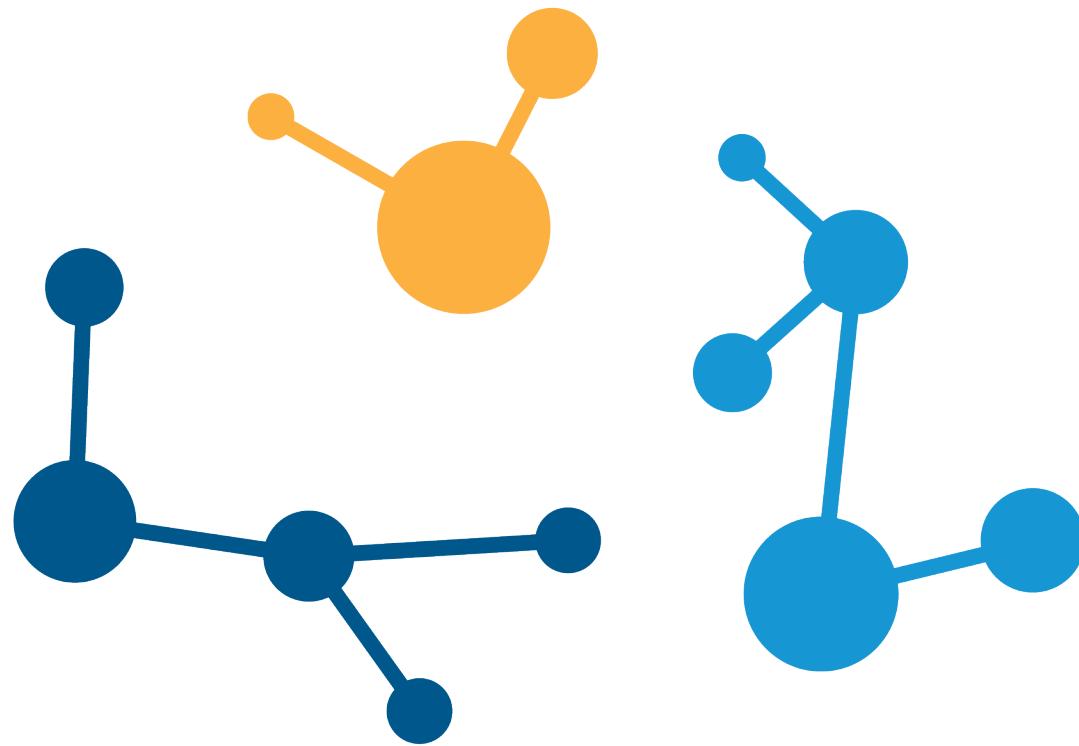


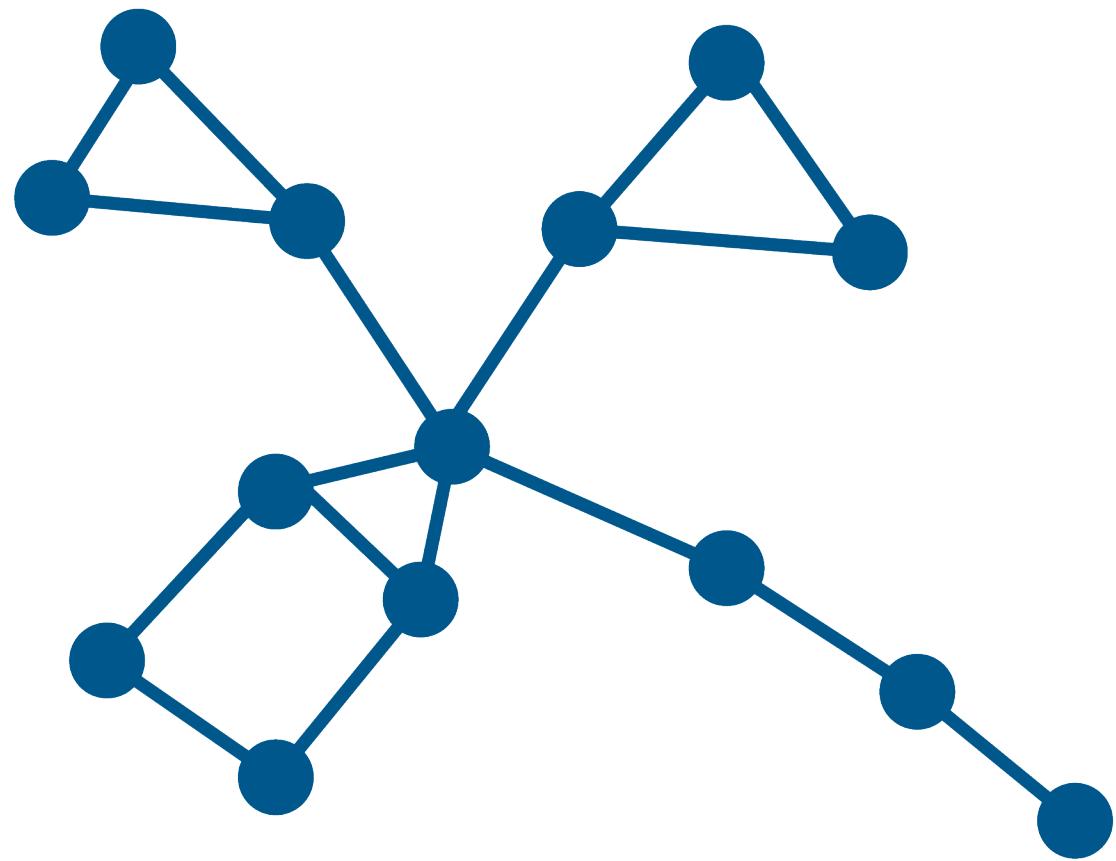


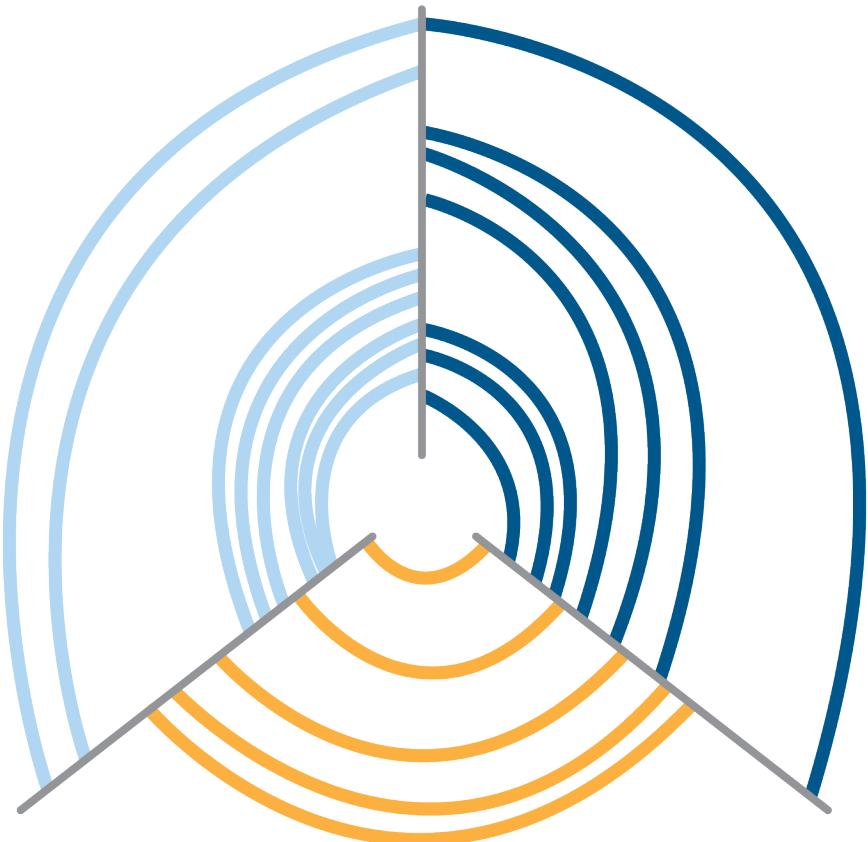




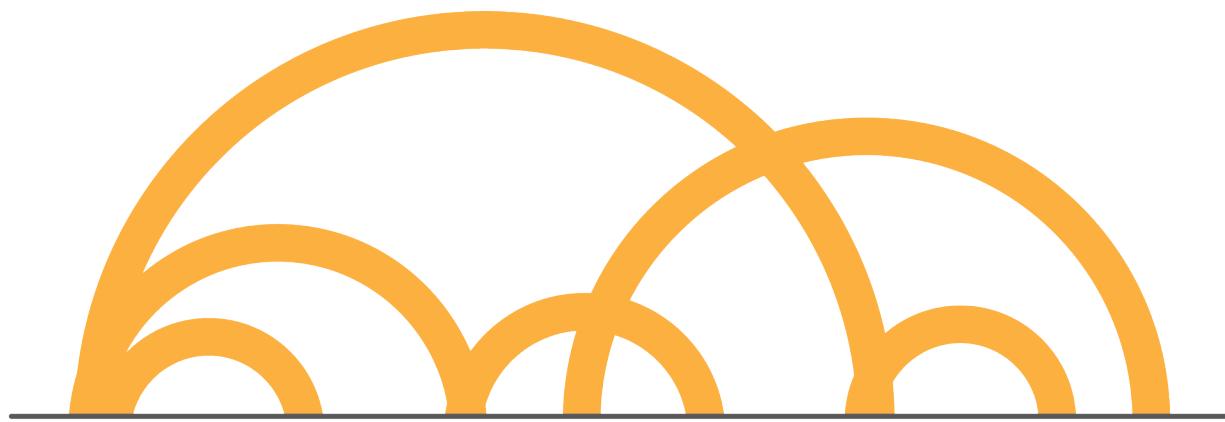


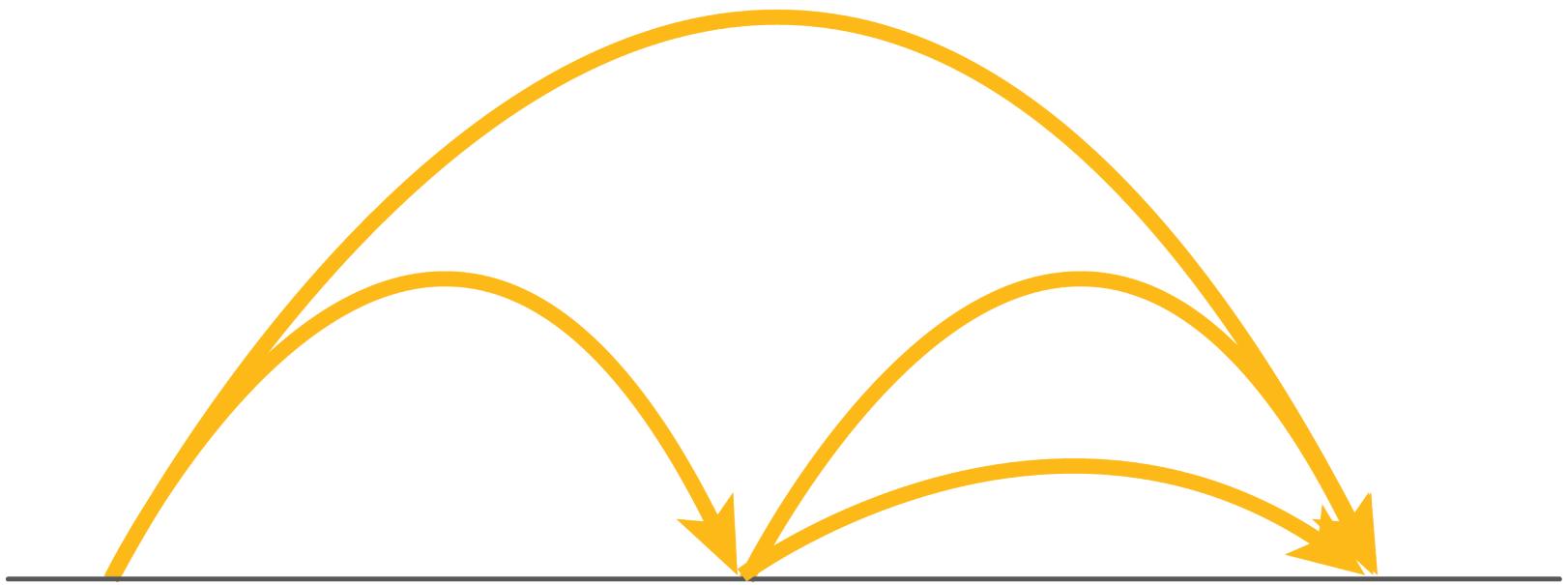


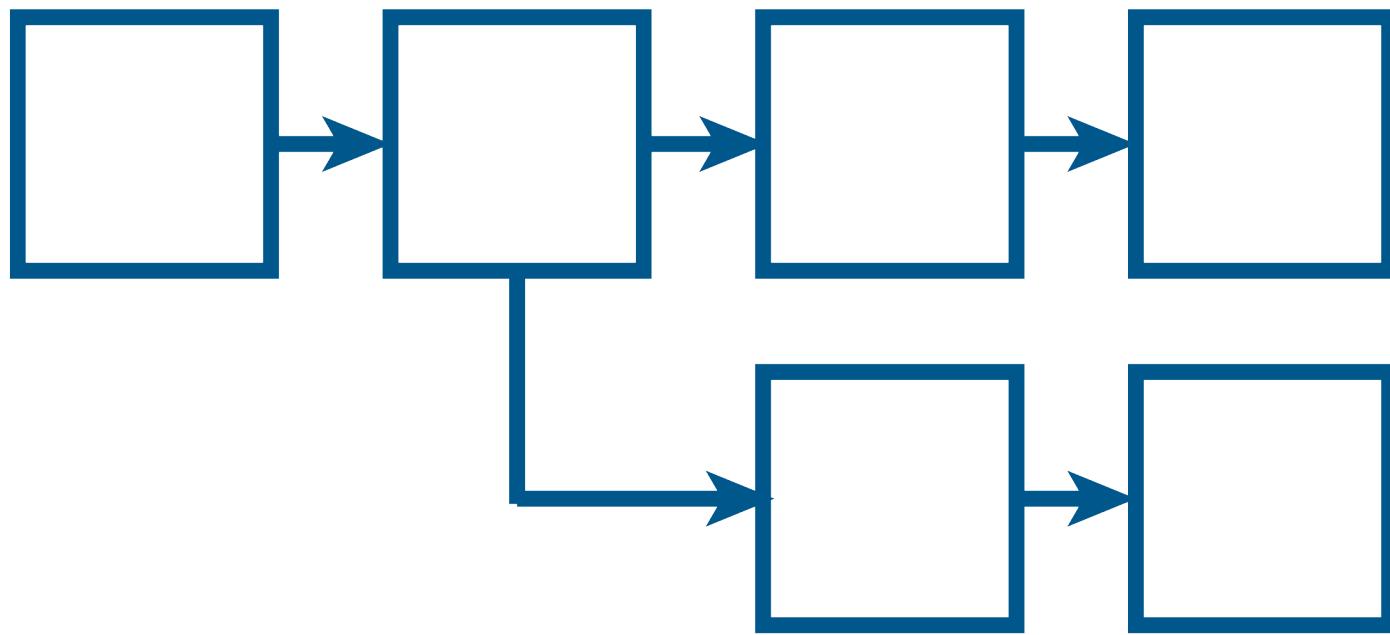


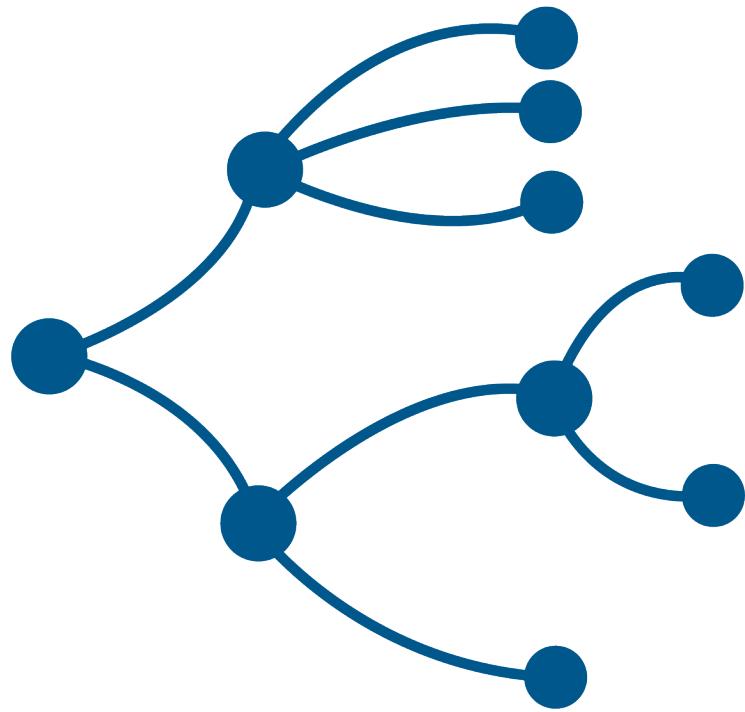




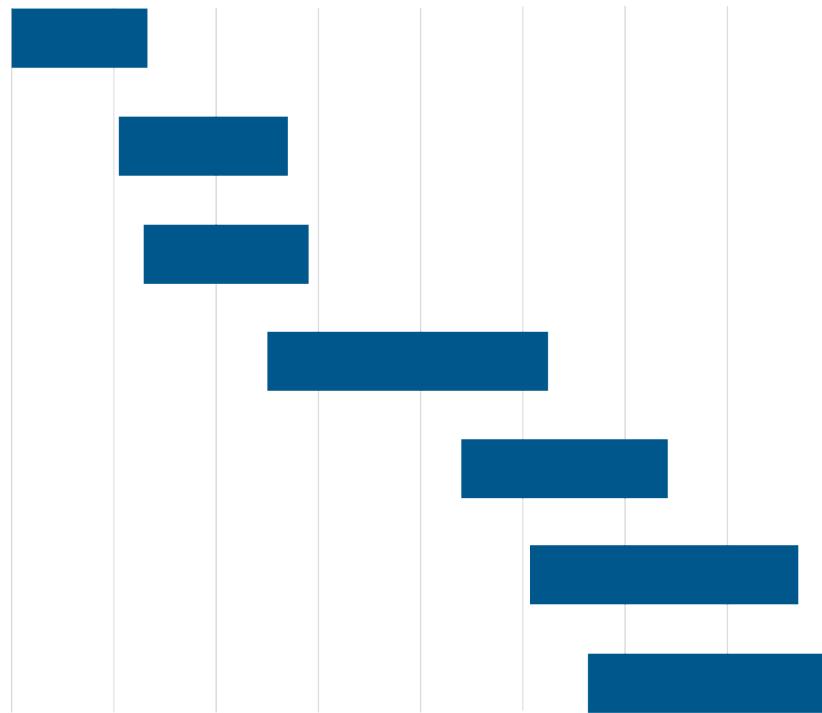




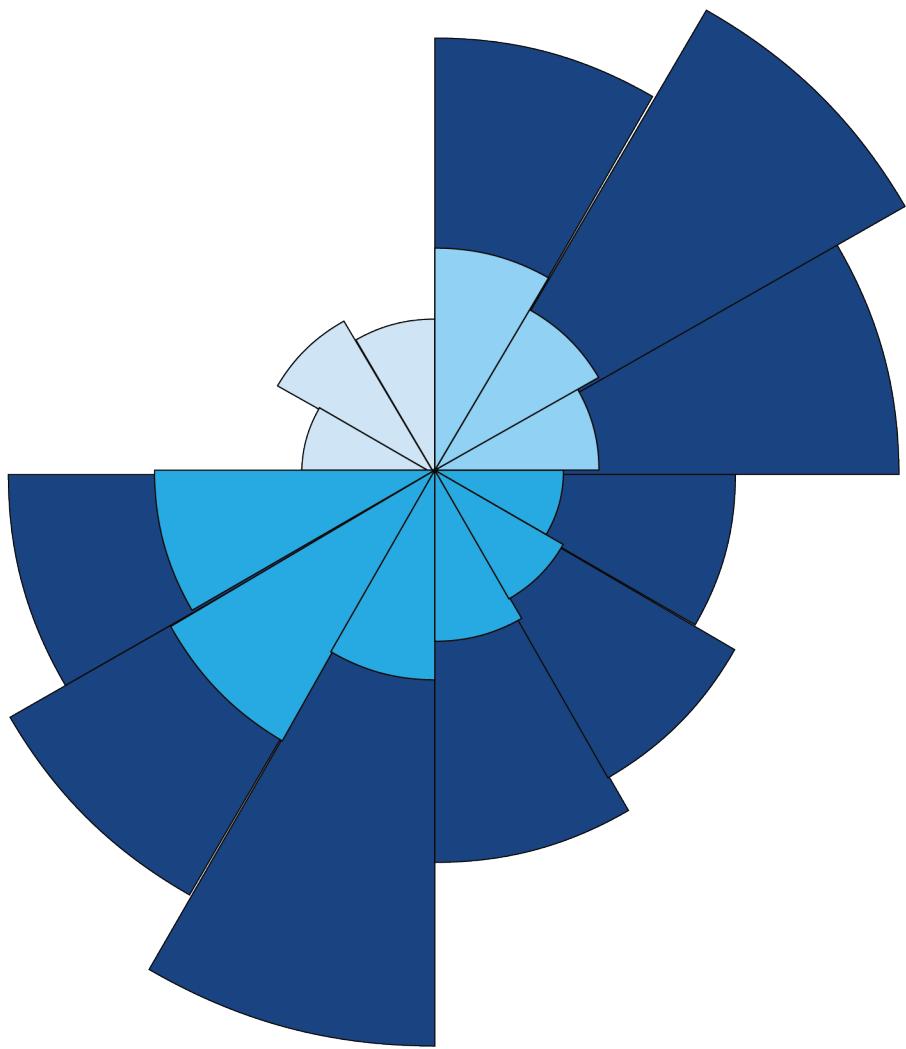


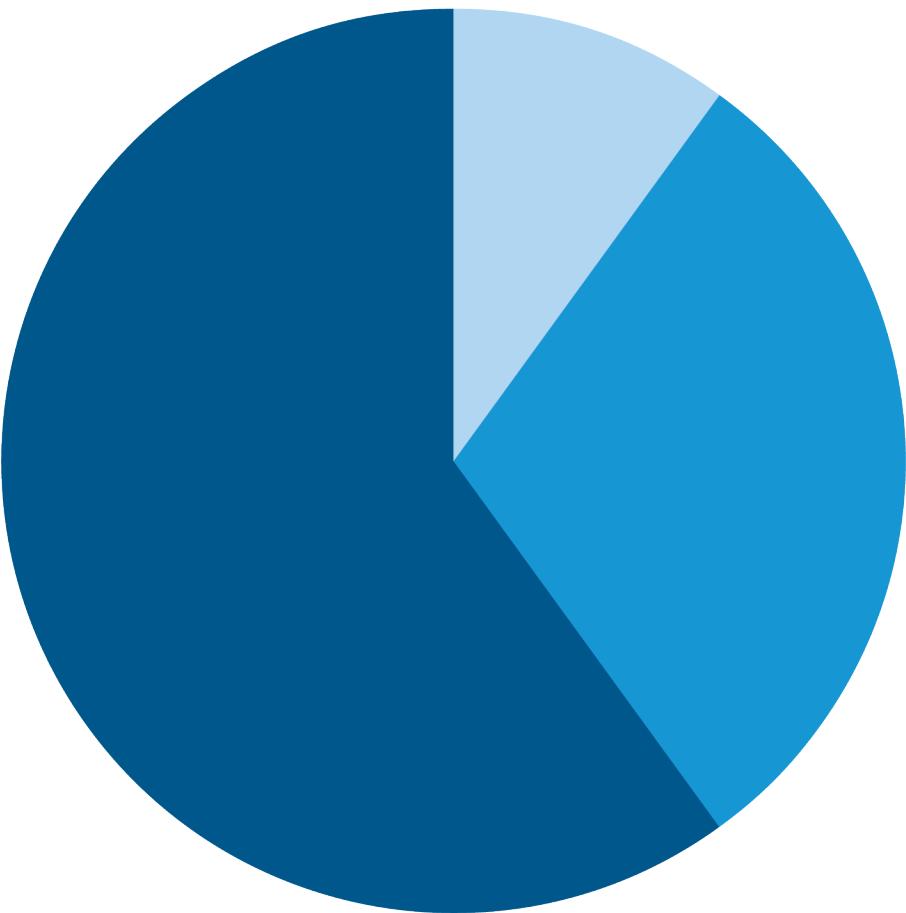


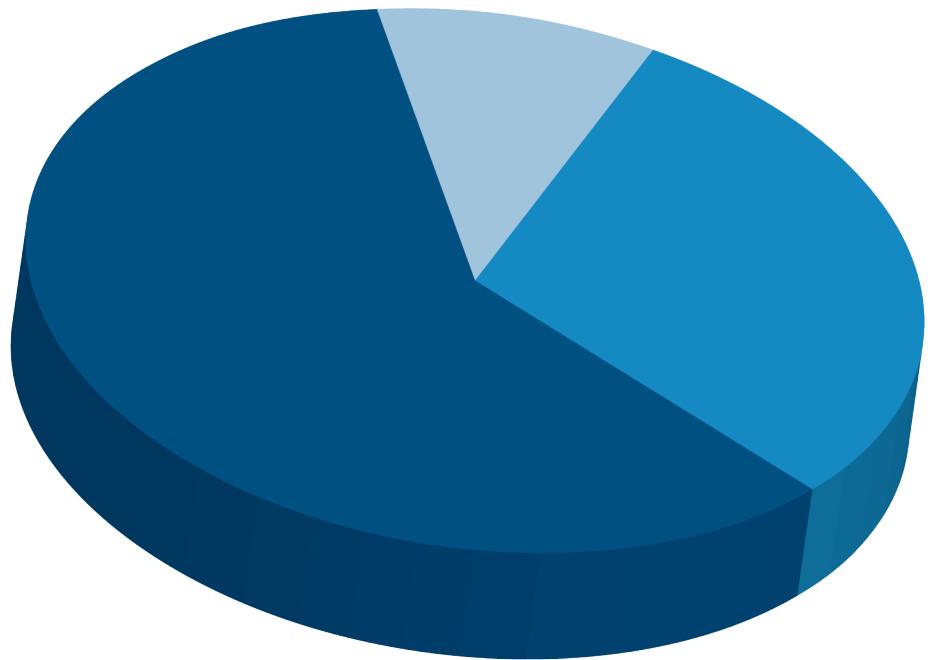




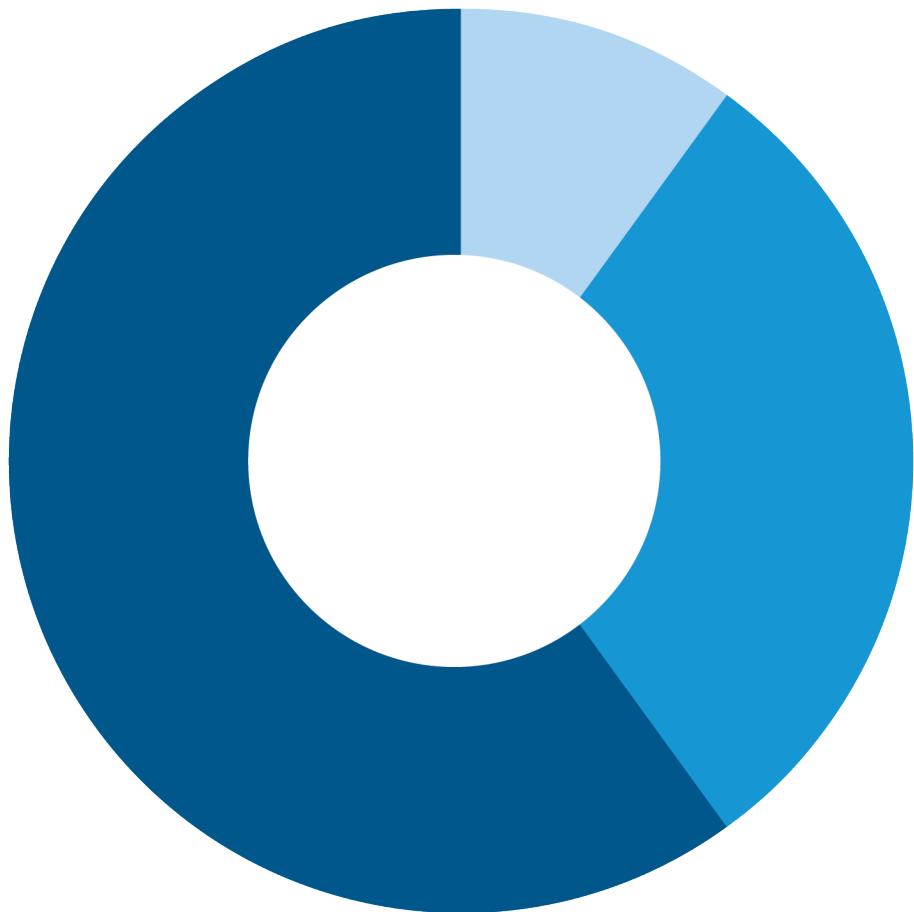


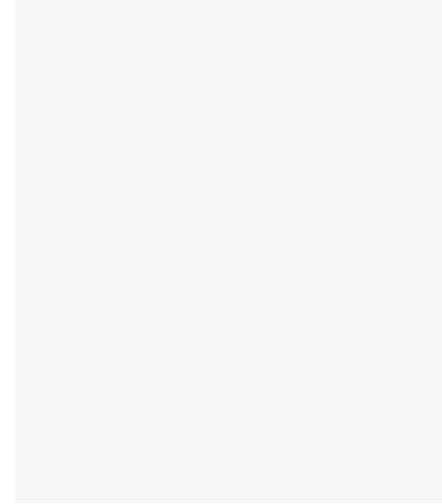


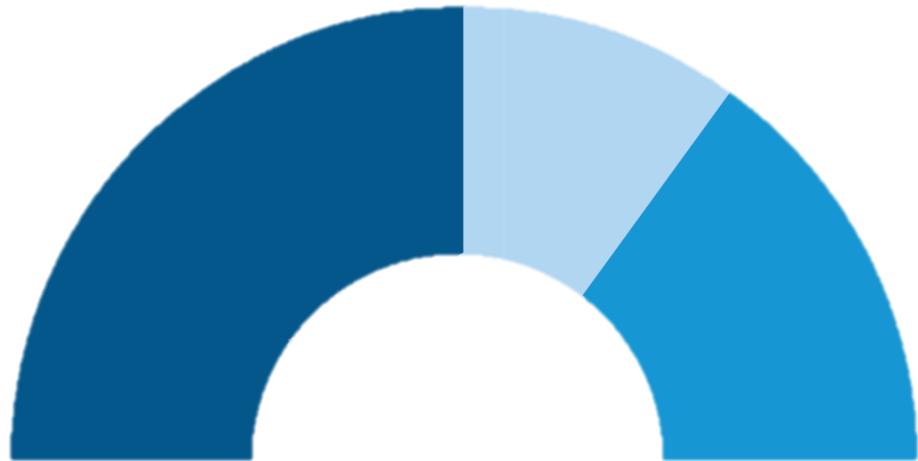


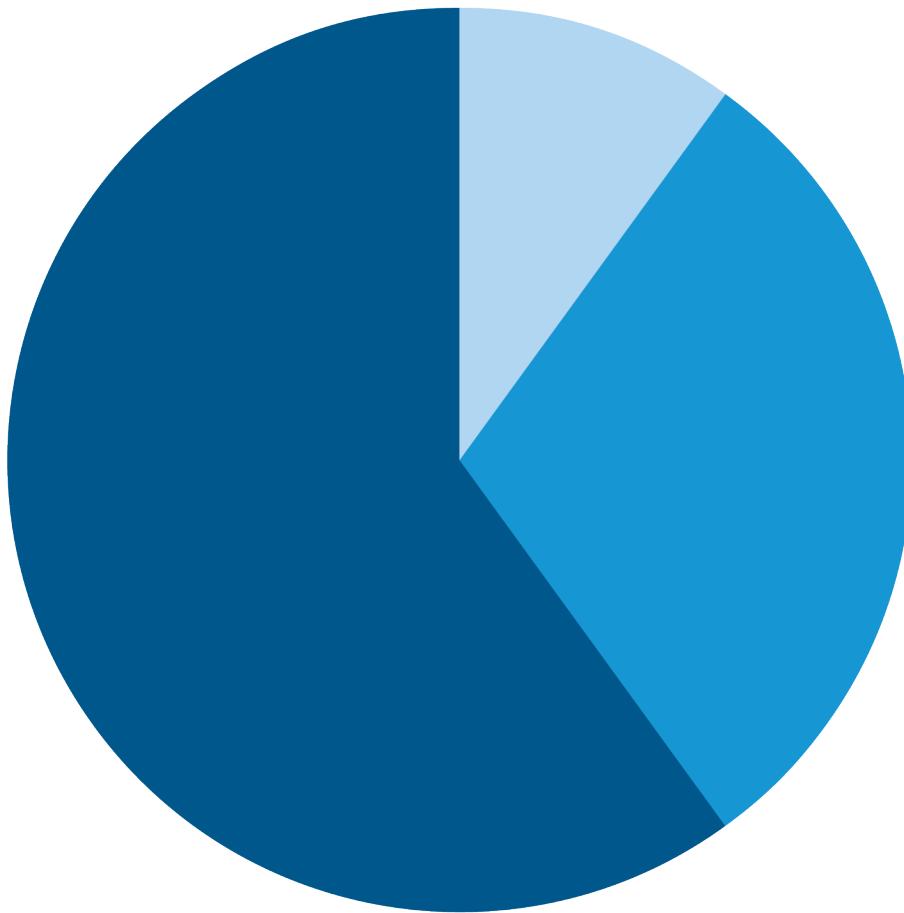








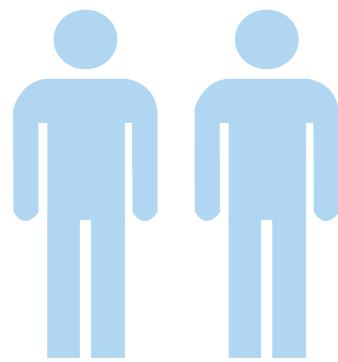
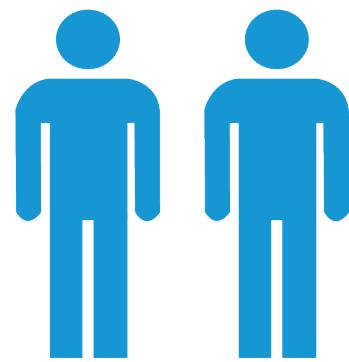
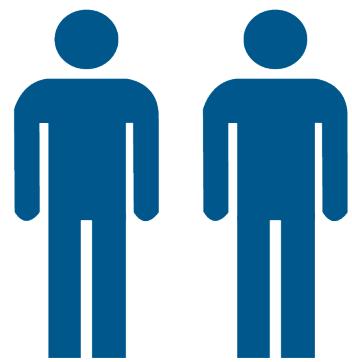
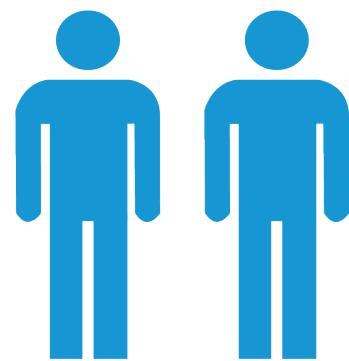
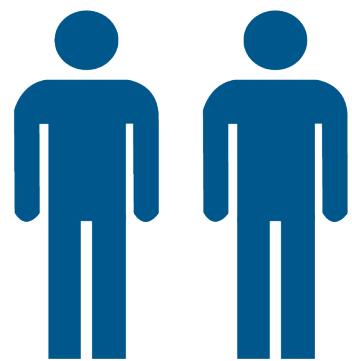
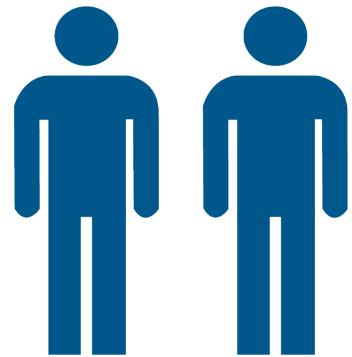


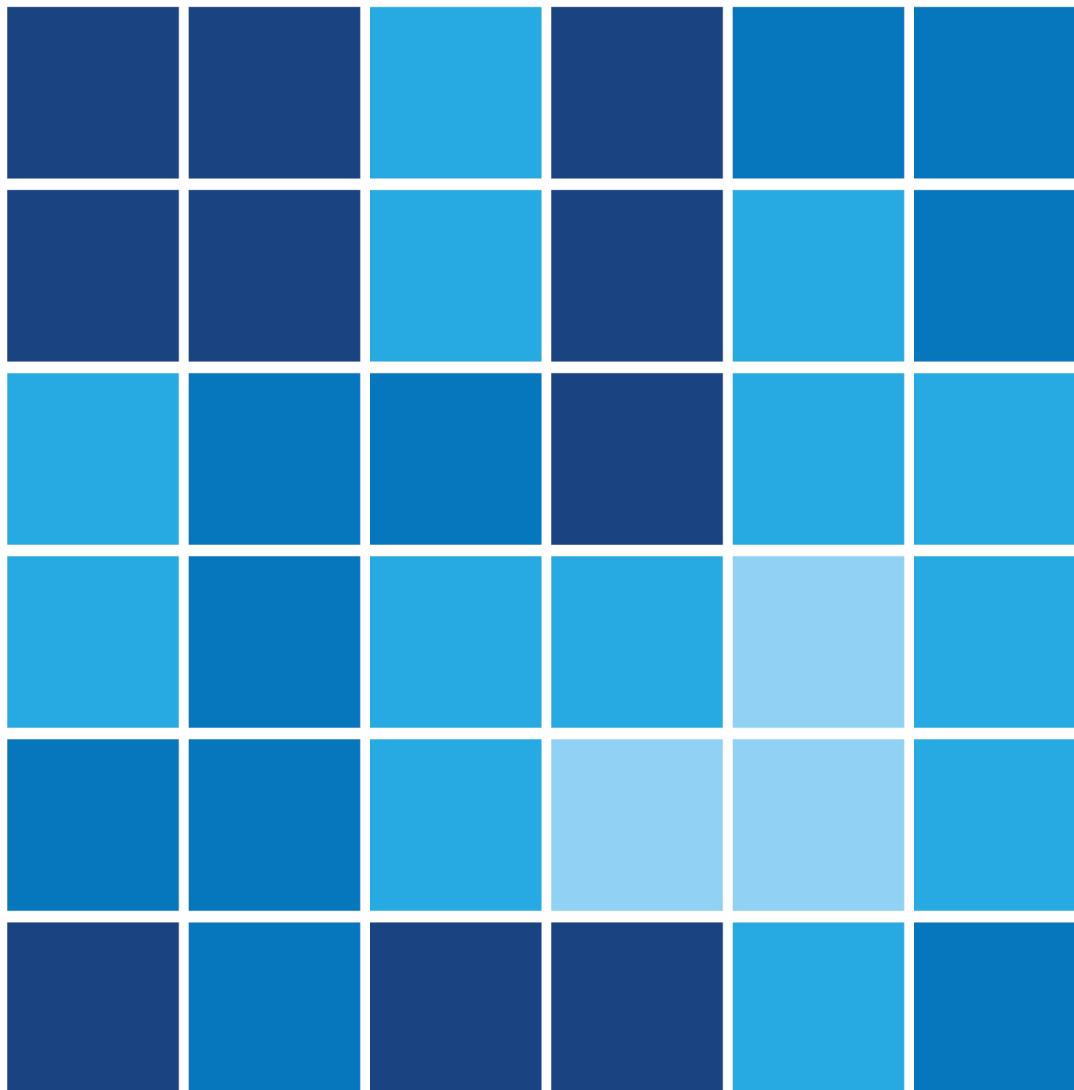




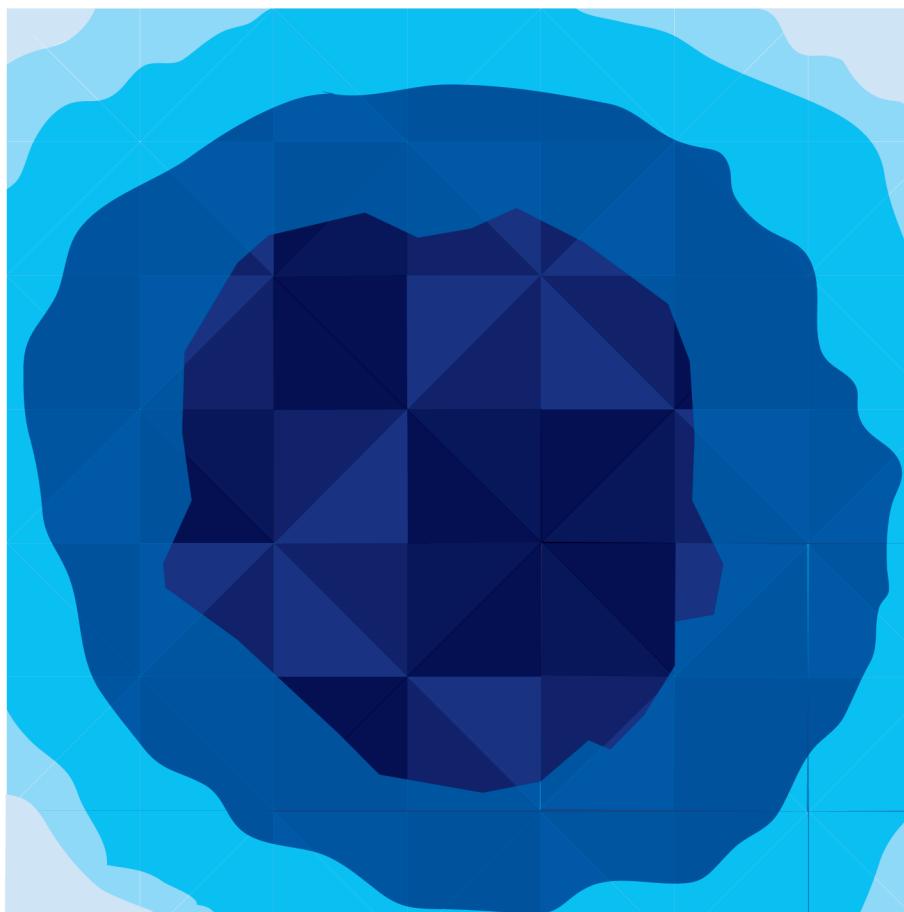


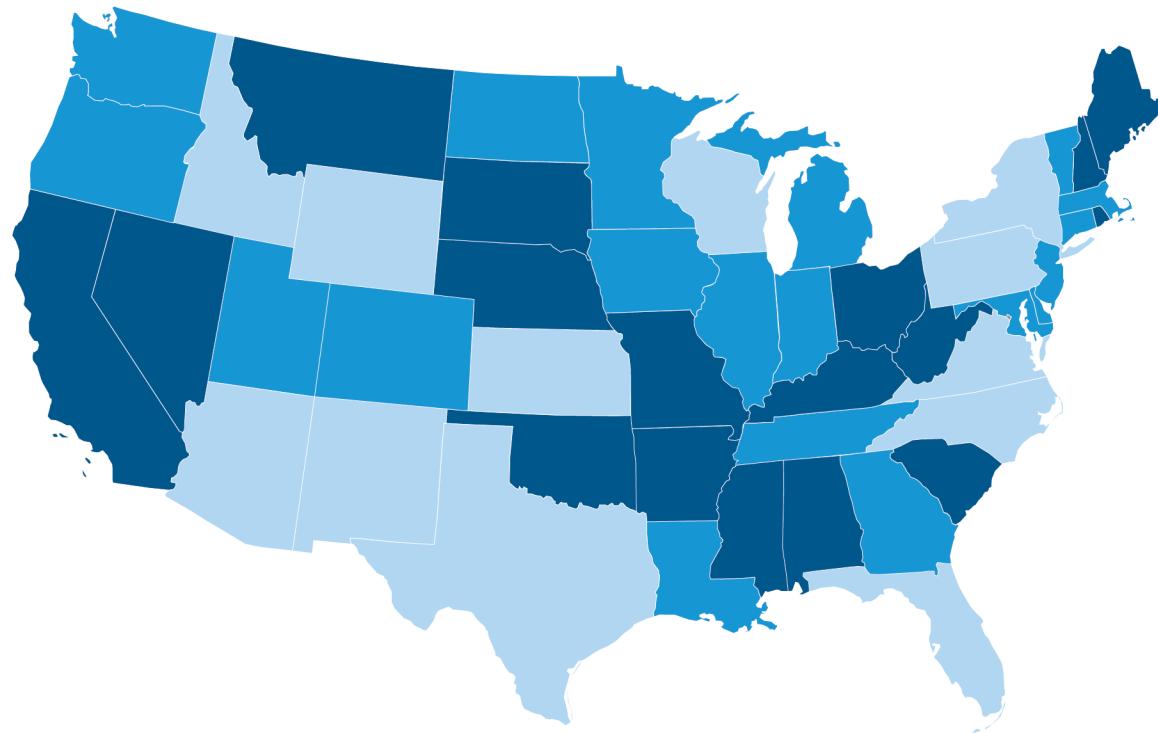


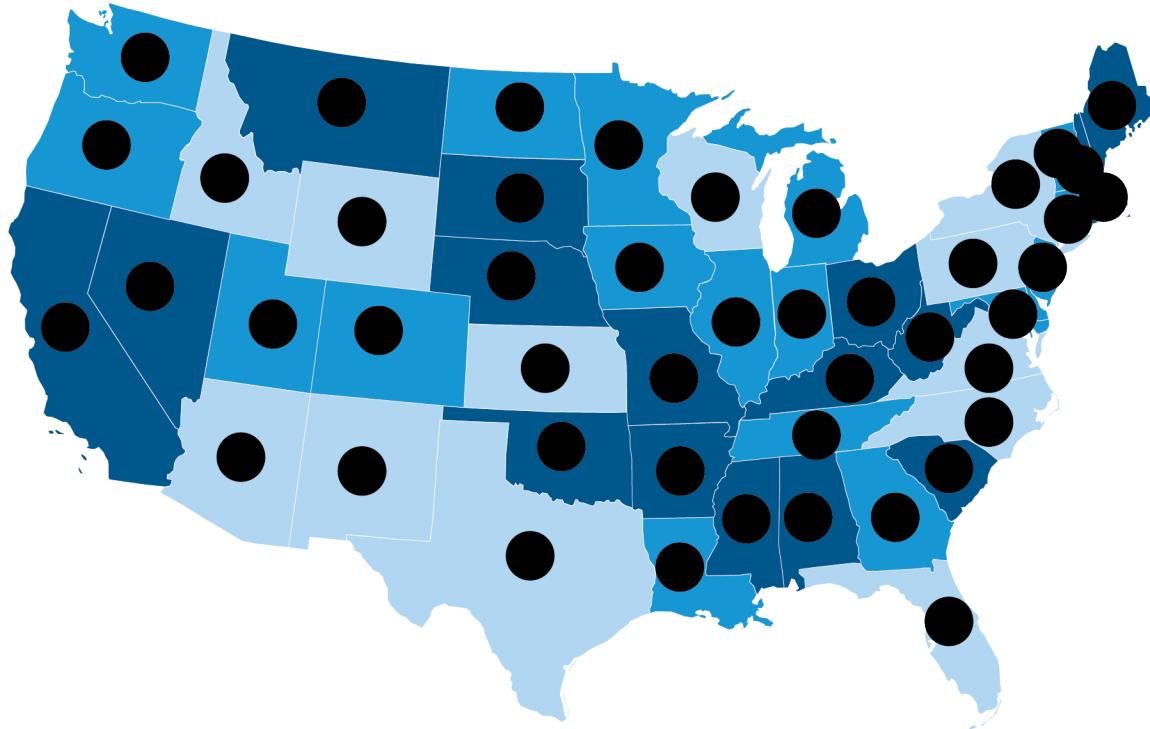


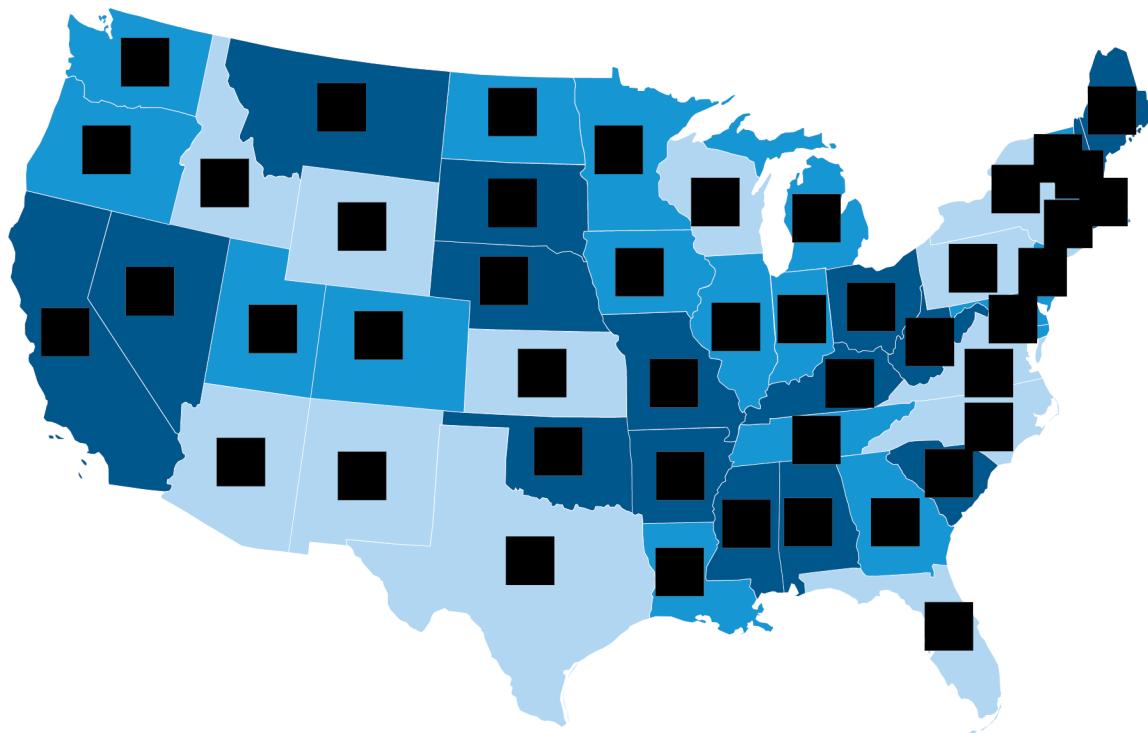


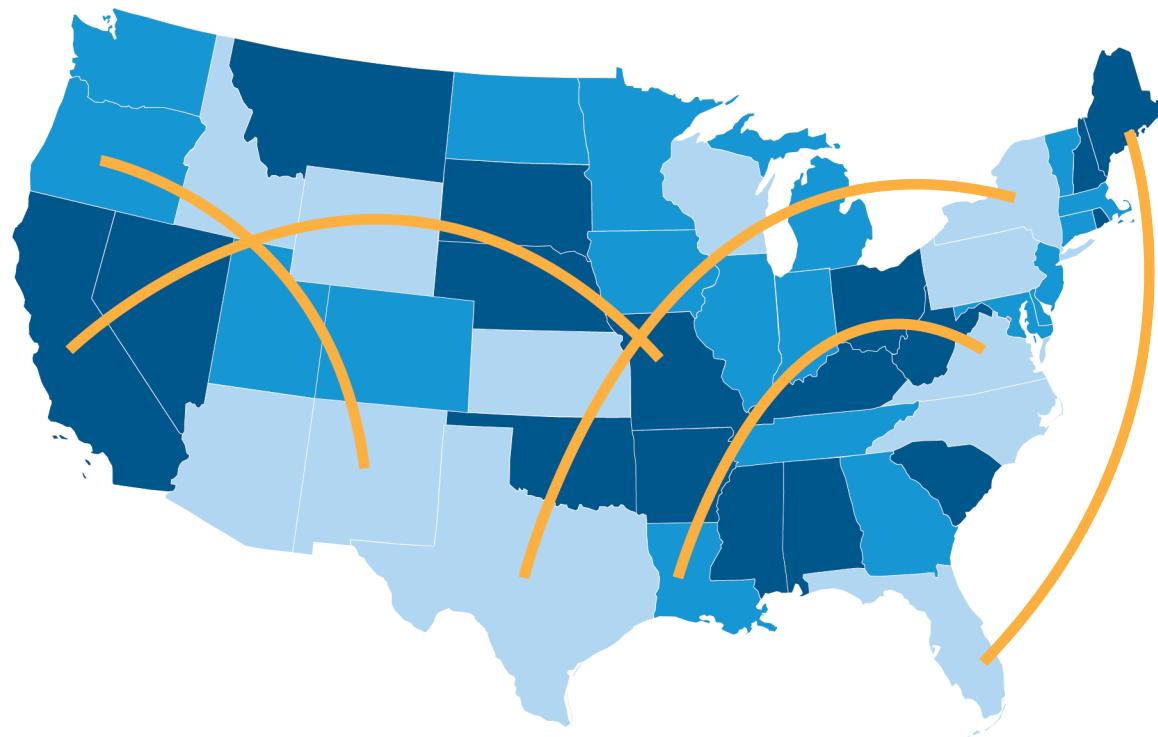


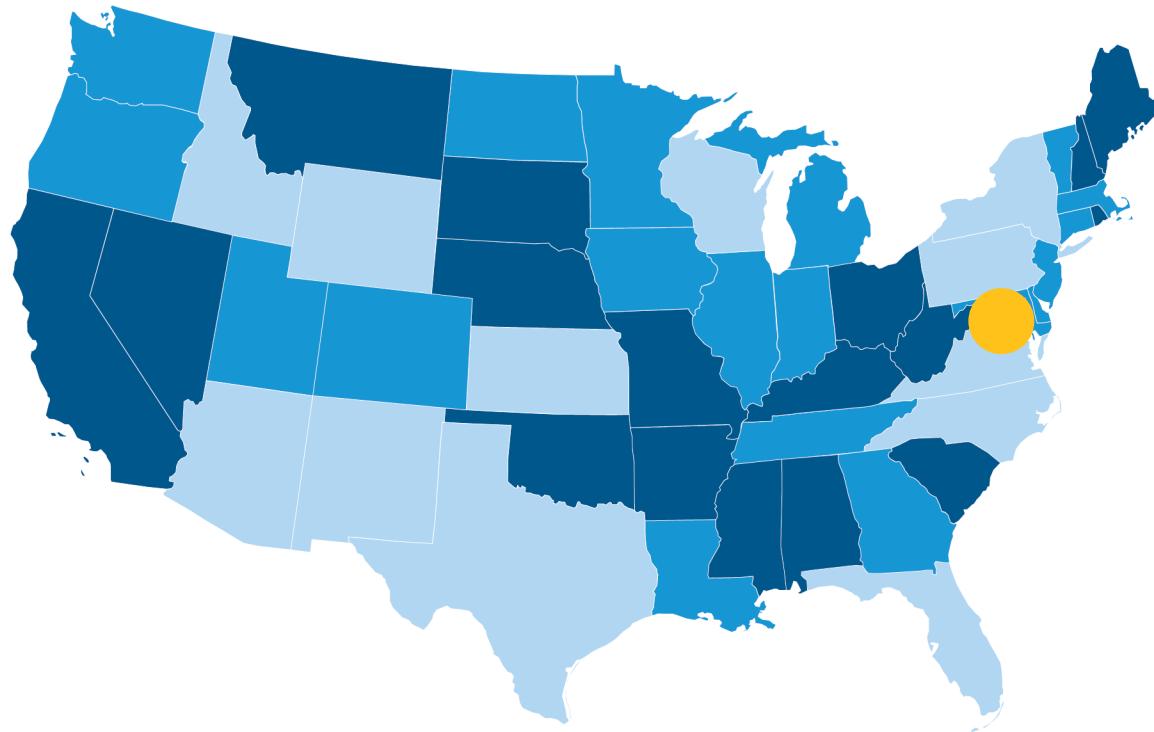














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THE GRAPHIC CONTINUUM

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COMPARING CATEGORIES

Compare values across categories



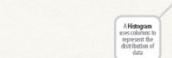
PART-TO-WHOLE

Visualizations that relate the part of a variable to its total



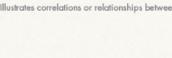
DISTRIBUTION

Graphical representations of the distribution of data



TIME

Track changes over time



**The purpose of visualization
is insight, not pictures.**

—Ben Shneiderman