



THE
JOURNEY
IS ON











Goals



Look at things from all angles

yes even upside down





5,970	529,137	1,710	1,120	233,167
1,720	48,100	0.314	0.316	778,186
0.314	882,789	1,180	1,190	68,000
1,190	10,000	0.332	0.338	158,294
0.332	10,000	0.460	0.479	350,000



“Getting to know
you,
Getting to know
all about you....”



Data types who cares?



Question

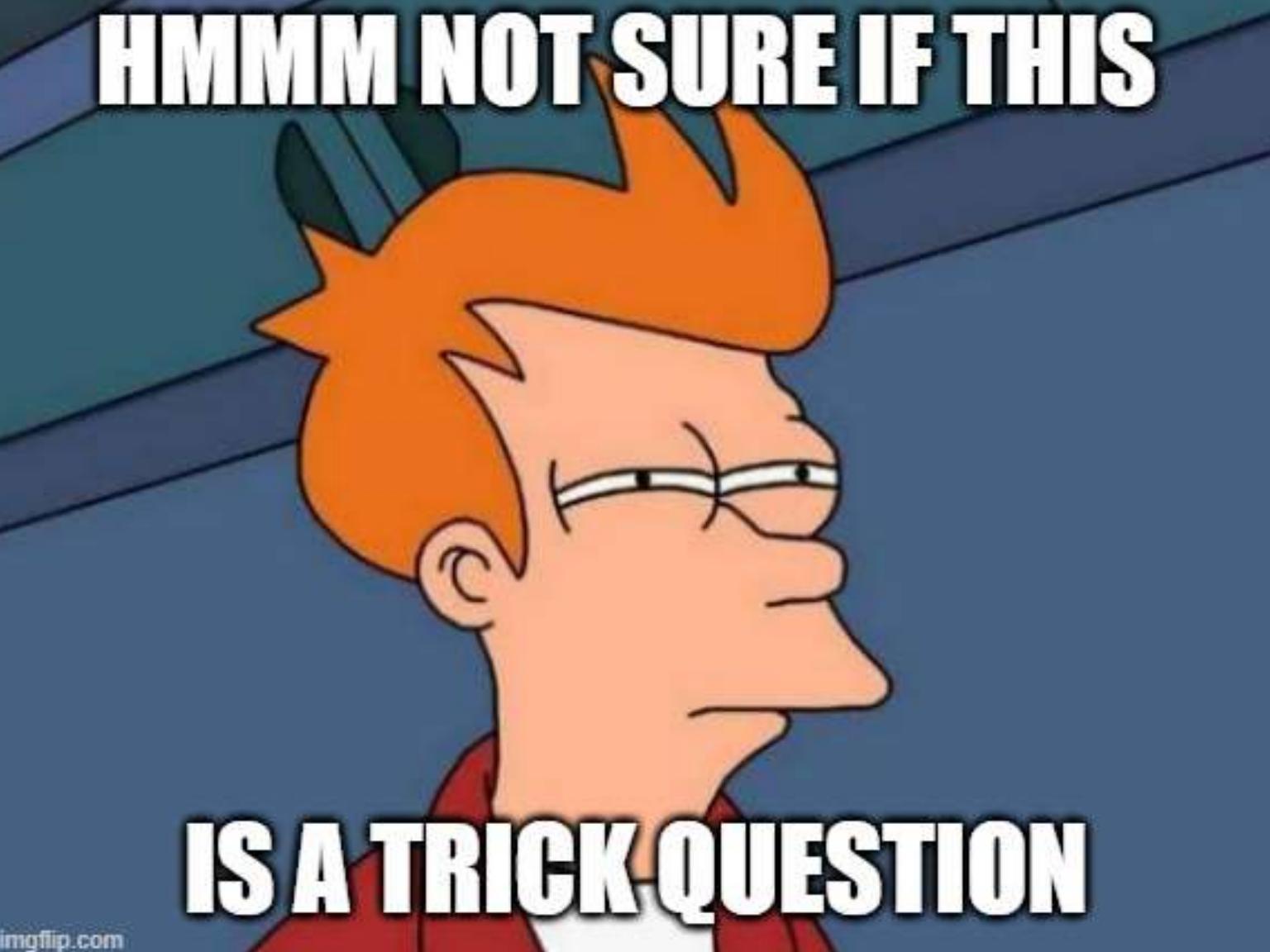
$$1) X + D = DX$$

$$2) X + D = XD$$

Hint X = 10 D = 500

<https://www.romannumerals.org/converter>

HMM NOT SURE IF THIS

A profile view of the character Fry from the TV show Futurama. He has his signature spiky orange hair and is wearing his signature white shirt and red jacket. His eyes are closed, and he has a thoughtful, slightly worried expression, with his brow furrowed. The background is a dark blue.

IS A TRICK QUESTION

**WHAT IF I TOLD
YOU**

IT DEPENDS

memegenerator.net

$$\underline{1}) X + D = DX$$

$$2) "X" + "D" = "XD" \checkmark$$

$$500 + 10 = 510 \checkmark$$

I'm NOT a Pedant
(in the precise definition of the term)

Computers are pedantic !

Data Types – Numeric

Integer

Description - Can be positive or negative whole numbers

Example data – 17, 106 ,10256, -4568, 1082564

Real or Decimal

Description - Stores numbers that contain decimal places/values and can also store integers

Example data – 17.25, 106.2486515 ,10256.0, -4568.48, 1082564.1564

Data Types

Character

Description – Stores a single character which can be letter, number or symbol

Example data – \$, @, *, & 1, 5, 0

String

Description - Can store alphanumeric combinations and text. String is really a group of characters stored together as one. NB !!!! Numbers to be used for calculations should not be stored as string data even though they can be. They should be stored as INTEGER or REAL



Example data – Lovely, 106 , 3/11/2023, -14.25646, Good

Other Data Types

(yes there is a lot more)

Date Time

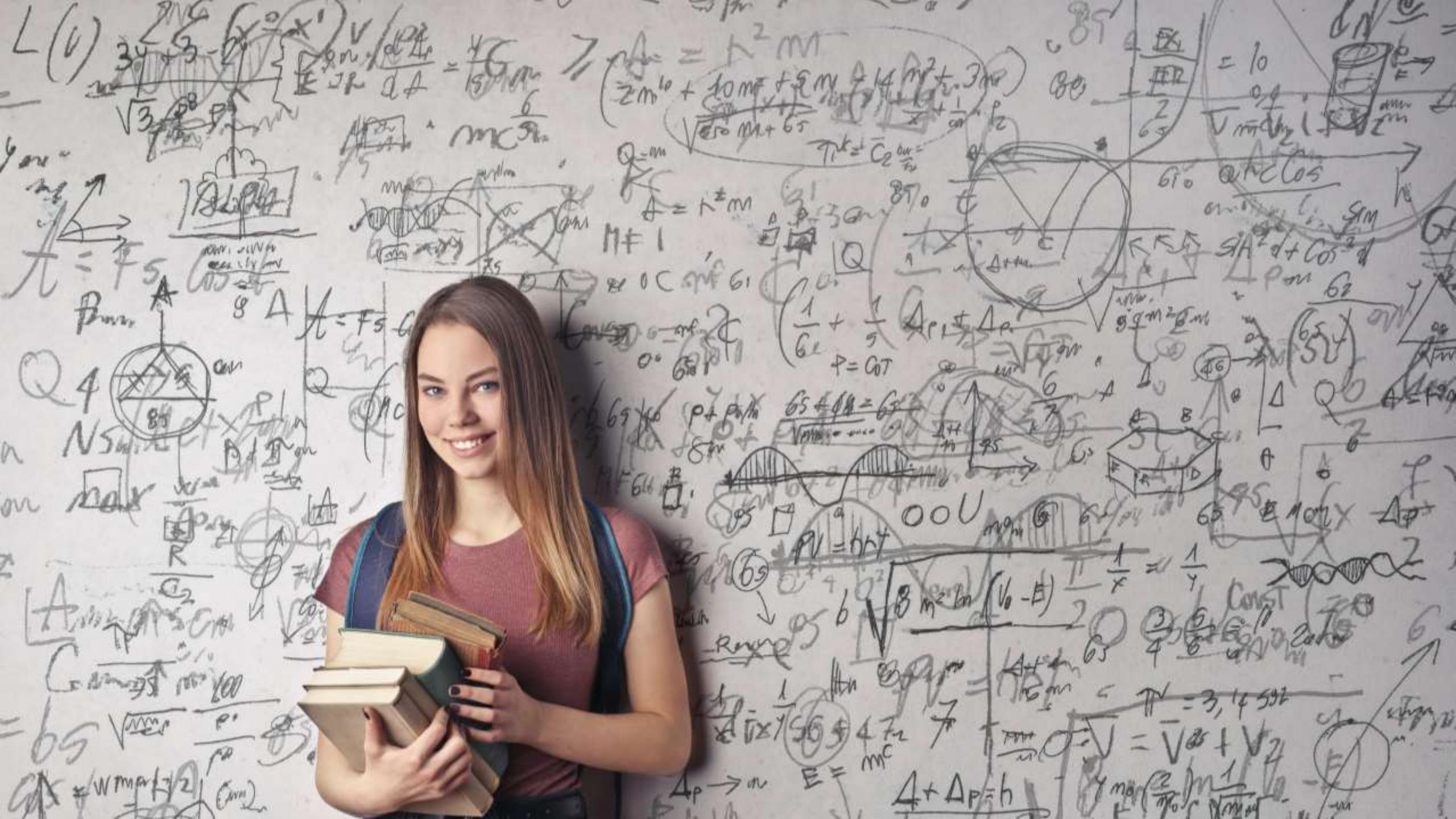
Description – Stores date and date time values

Example data – 2023-05-01, 2024-12-25 00:00:00, 21/04/1972

Boolean

Description - Stores True or False only. This is sometimes taught as 1 or 0 only where 1 is true and 0 false

Example data – 0, 1, True, False





W₄

H₄

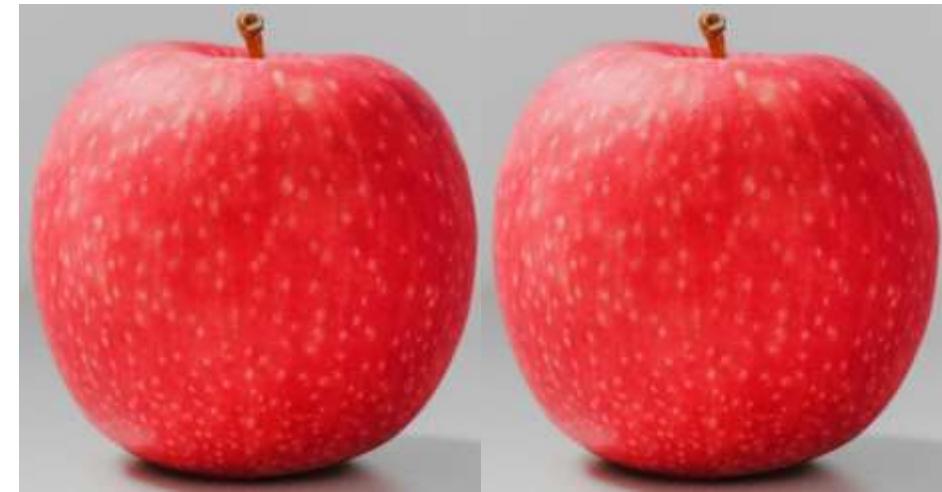
Y₄



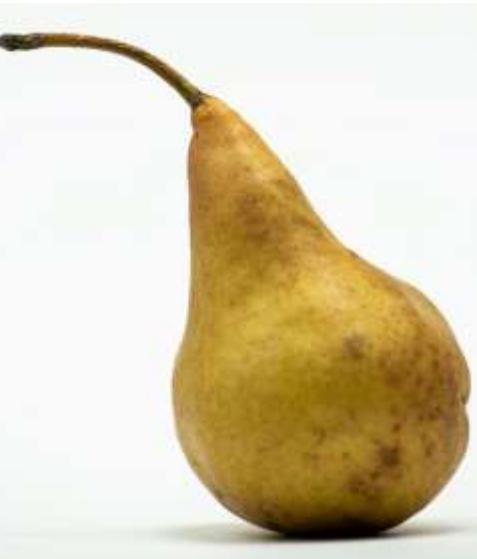
+



=



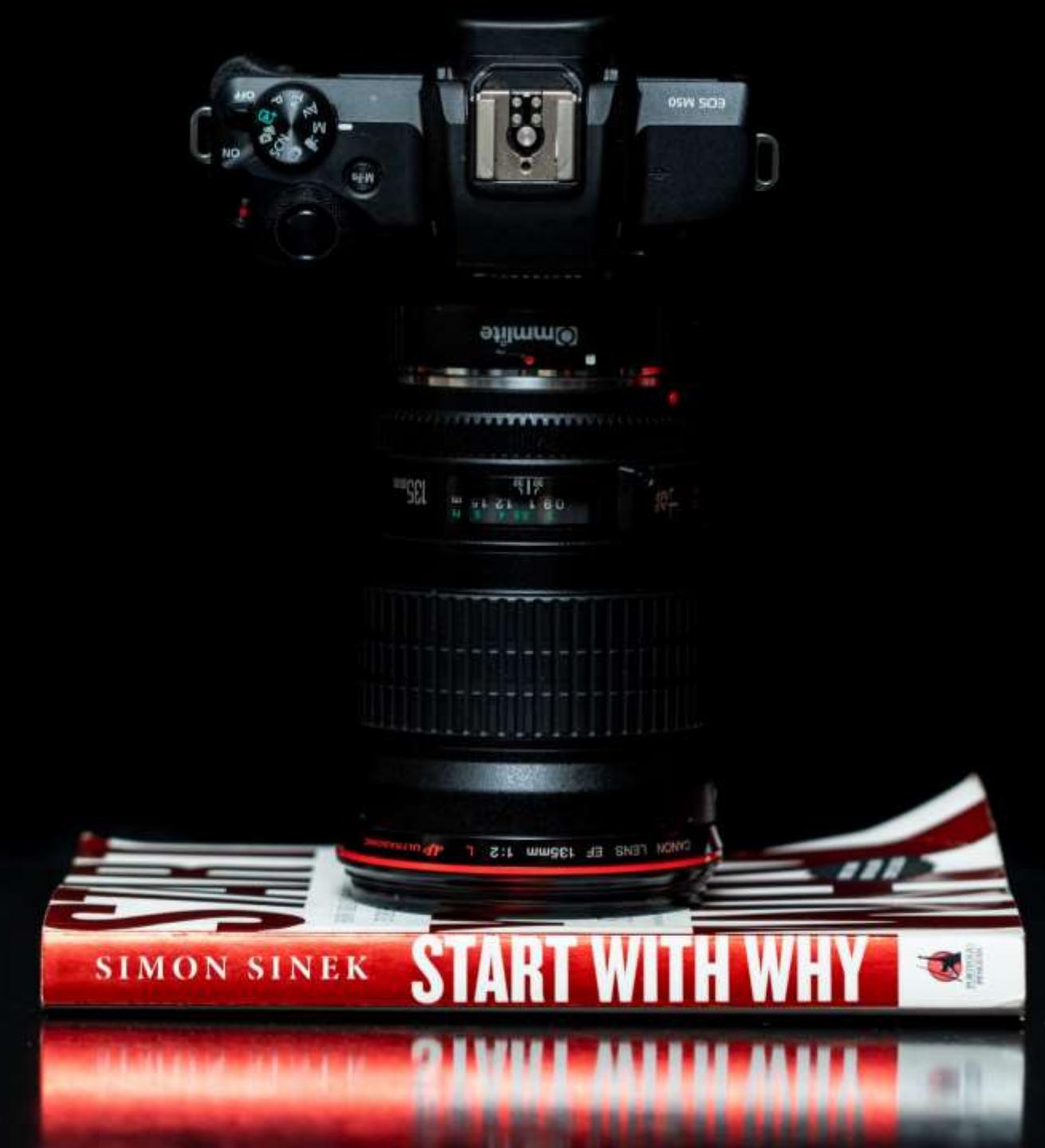
+



=

imgflip.com















THE UNKNOWN

Don't
Panic!









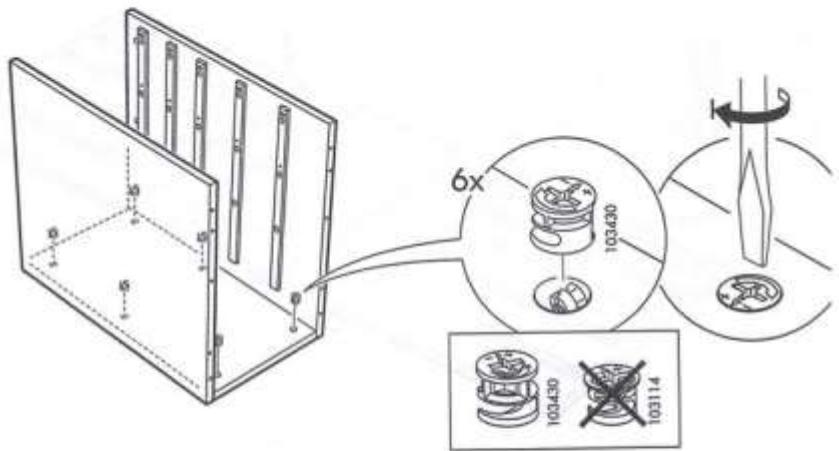
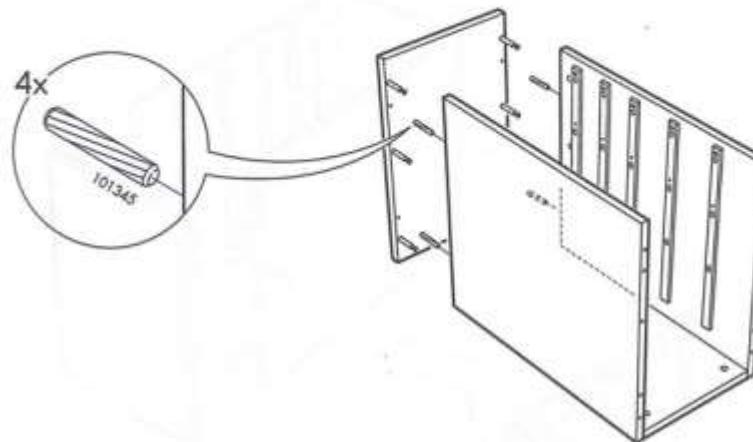
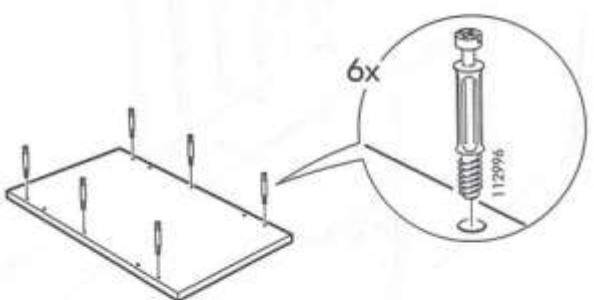
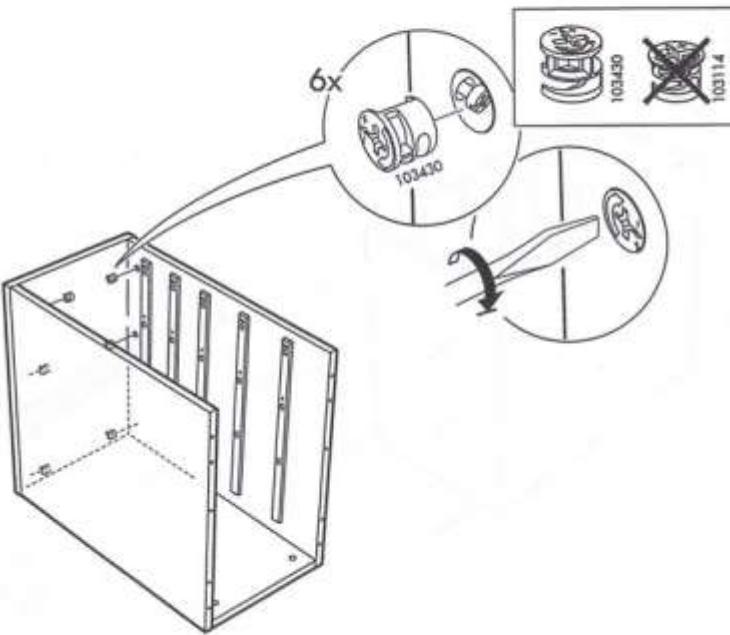
Example questions to ask

- Min
- Max
- Average
- How many records
- How much detail

Hierarchies





3**5****4****6**



Power BI



Untitled - Power BI Desktop

Robert French

File Home Insert Modeling View Help External Tools

Paste Cut
Get data v Excel Power BI datasets SQL Server Enter data Recent sources v
Format painter Clipboard

New visual Text box More visuals v
Transform Refresh data v
New Quick measure measure
Insert Calculations Share

Visualizations >
Filters <
Fields <

Add data to your report

Once loaded, your data will appear in the Fields pane.

Import data from Excel Import data from SQL Server Paste data into a blank table Try a sample dataset

Get data from another source →

Page 1 +

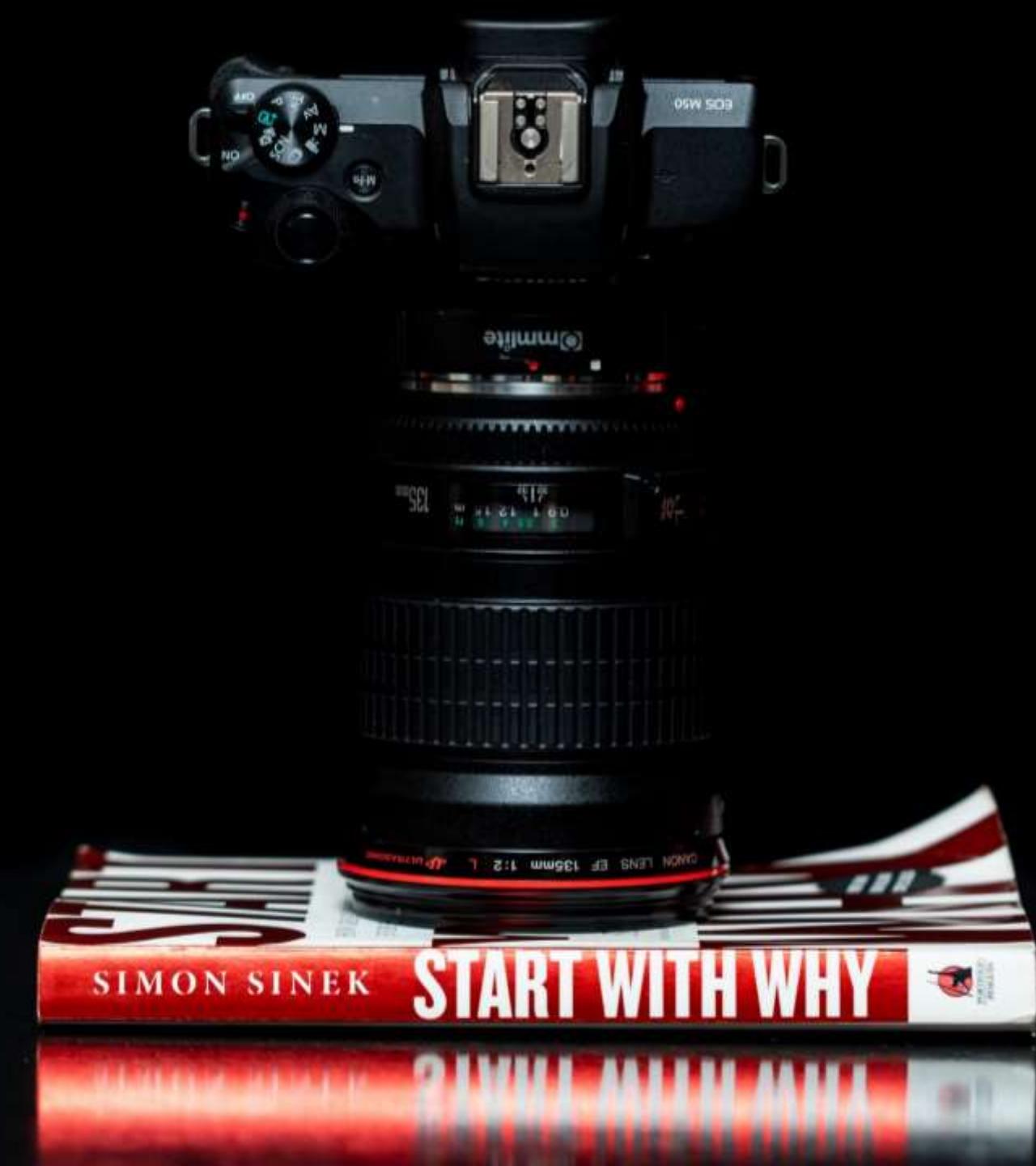
Page 1 of 1



Other tools?

- SQL Server – TSQL
- Oracle – PLSQL
- R
- Python
- What ever works for you!





Aeschi

Krattigen

Faulensee

Hondrich

Rund-
wanderweg
Spiez

Rund-
wanderweg
Spiez

Qualitative

- Also know as Categorical
- Two main types
 - Nominal
 - Ordinal

*“Data that is not defined as a number.
Can be used to express a measurement of some form.”*

Qualitative - Nominal

- *Define*

Cannot be assigned any order

Allocated to distinct categories

Categories have no meaningful order

- *Examples*

Hair colour

Martial Status

House type

Family name

Country born in

Binary – variables that have two choice

Got a driving licence?

Do you work for Glasgow City Council?

Qualitative - Ordinal

- *Define*

Values which can be ordered in categories difference between units is meaningless.

- *Examples*

Blood group

Clothes size

Exam Grades

Quantitative

- Two main types

Discrete

Continuous

“Quantitative data is, quite simply, information that can be quantified. It can be counted or measured, and given a numerical value”

Quantitative – Discrete

- *Define*

Can be counted, finite only certain values are possible. Integer values.
- *Examples*
 - Number of people working for Glasgow City Council*
 - Shoe Sizes*
 - Number of people in this workshop*
 - Hours worked in a day (if rounded to the nearest hour)*

Quantitative – Continuous

- *Define*
Measured. Can have an infinite number of values within the interval
- *Examples*
Height of children in a class
Annual Rainfall In Scotland
Speed of vehicles
Time that was taken to create this workshop

Visual Vocabulary

There are so many ways to visualise data - how do we know which one to pick? Click on a category below to decide which data relationship is most important in your story, then look at the different types of charts within the category to form some initial ideas about what might work best. This list is not meant to be exhaustive, nor a wizard, but is a useful starting point for making informative and meaningful data visualisations.

Click any section below to view the charts



Deviation

Emphasise variations (+/-) from a fixed reference point. Typically the reference point is zero but it can also be a target or a long-term average. Can also be used to show sentiment (positive/neutral/negative).

Correlation

Show the relationship between two or more variables. Be mindful that, unless you tell them otherwise, many readers will assume the relationships you show them to be causal (i.e., one causes the other).

Ranking

Use where an item's position in an ordered list is more important than its absolute or relative value. Don't be afraid to highlight the points of interest.

Distribution

Show values in a dataset and how often they occur. The shape (or 'skew') of a distribution can be a memorable way of highlighting the lack of uniformity or equality in the data.

Change over Time

Give emphasis to changing trends. These can be short (intra-day) movements or extended series traversing decades or centuries: Choosing the correct time period is important to provide suitable context for the reader.

Part-to-Whole

Show how a single entity can be broken down into its component elements. If the reader's interest is solely in the size of the components, consider a magnitude-type chart instead.

Magnitude

Show size comparisons. These can be relative (just being able to see larger/bigger) or absolute (need to see fine differences). Usually these show a 'counted' number (for example, barrels, dollars or people) rather than a calculated rate or per cent.

Spatial

Used only when precise locations or geographical patterns in data are more important to the reader than anything else.

Flow

Show the reader volumes or intensity of movement between two or more states or conditions. These might be logical sequences or geographical locations.

CREATED BY

Jason Thomas | [@Galaxy_1313](#)

INSPIRED BY

Andy Kriebel | [@xkriebel](#) including the design / theme template from [SSRS](#)

FT Graphics: Alan Smith, Chris Cargill, Ian Litt, Liz Earle, Gabriele Kissack, Elly Drenking, Paul McCullagh, Michael Neale

Visual Vocabulary Poster: [@mattcantrill](#)

CREDITS

Power BI Community & Tableau Community - for sharing their data techniques and warnings.

AND IN PARTICULAR

Konstantinos Iakovidou | [@konstos_konstos](#) - for opening up my mind regarding the potential of R/Python visual.

David Eidesvold | [@david_eidesvold](#) - for being my sounding board

Nigchance | [@Nigchance](#) - for creating Visual Pines in R and kickstarting my R visual journey

Pragmatic Works | [@pw](#) - for imaging about all those custom visual in Power BI

CUSTOM VISUALS:

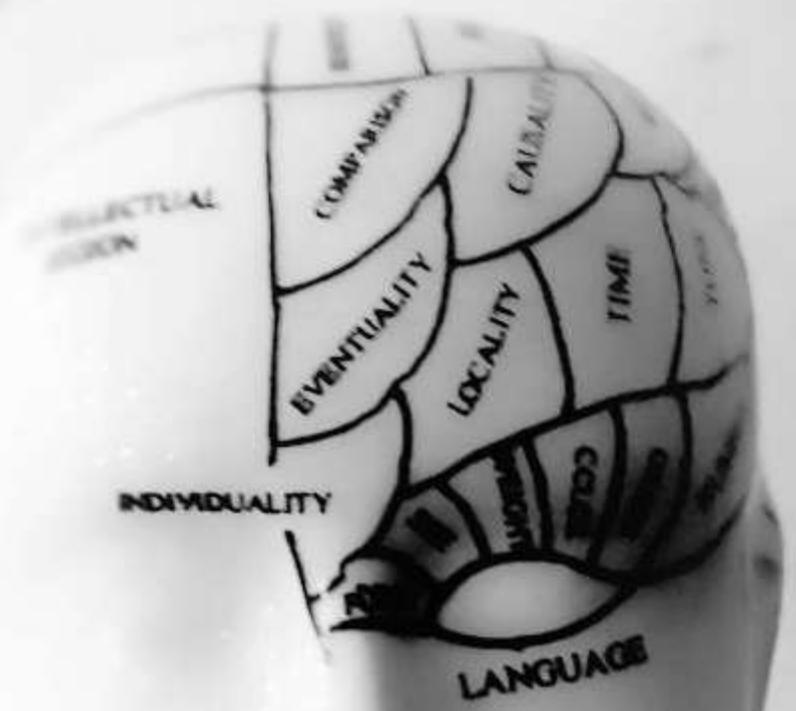
MapBox	Chartulator	Scatter Chart by Alvelion	Dot Plot by MAQ
Python	Infographic Designer	Box & Whisker by MAQ	Dumbbell Chart by MAQ
Candlestick by OKViz	Synoptic Panel by OKViz	Mekko Chart	Sunburst
Minn-Diagram by MAQ	Waffle Chart	Chidet Slice	Radar Chart
Bullet Chart by OKViz	Flow Map	Heat Map	Heat Map
Sankoy	Chord	Network Navigator	Social Network Graph











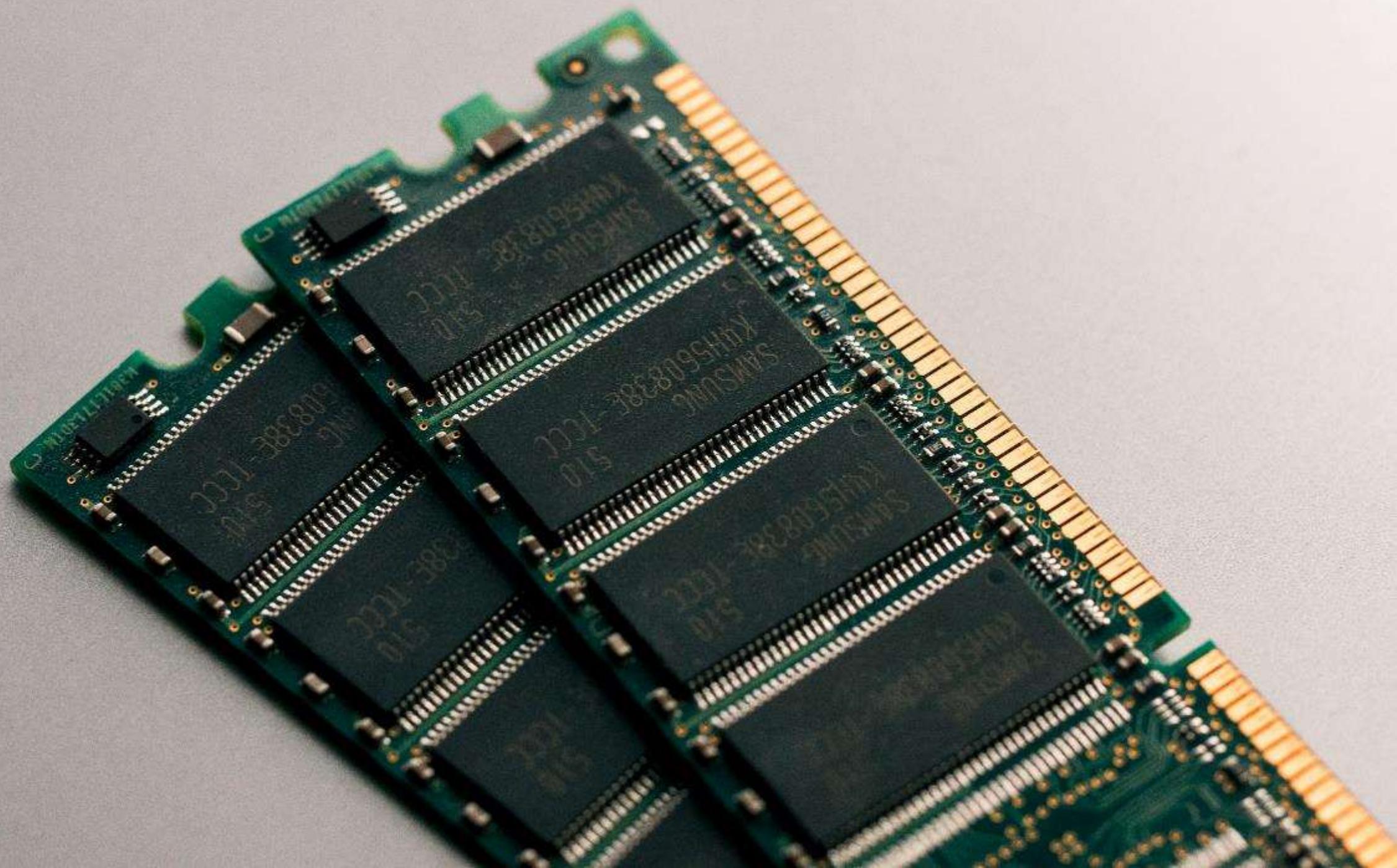
















No. of working memory slots

- Three? Or
- Five? Or
- Seven?

3



“Computer Ram”

Slot one



Slot two



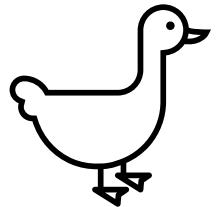
Slot three



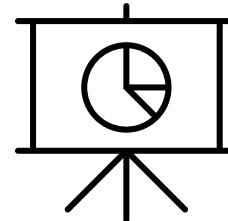
“Hard Drive”

“Working memory”

Slot one



Slot two



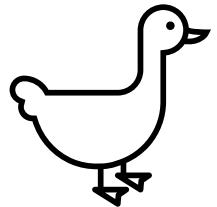
Slot three



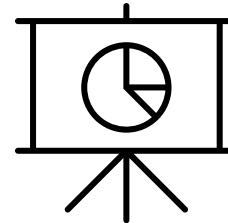
“Long Term memory”

“Working memory”

Slot one



Slot two



Slot three

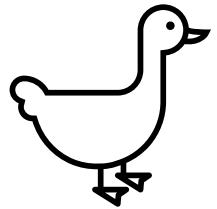


“Long Term memory”

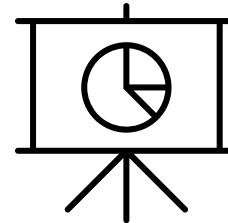


“Working memory”

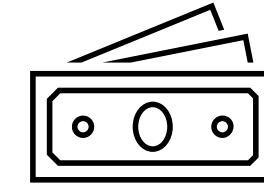
Slot one



Slot two



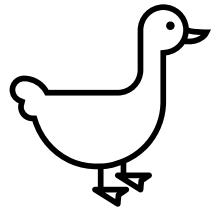
Slot three



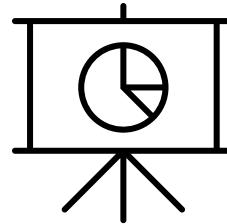
“Long Term memory”

“Working memory”

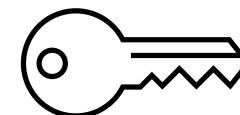
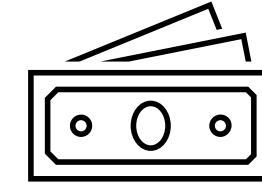
Slot one



Slot two



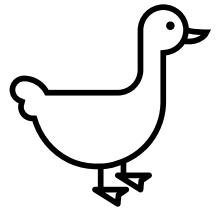
Slot three



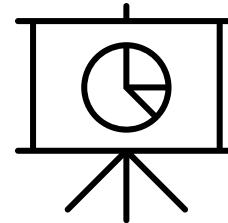
“Long Term memory”

“Working memory”

Slot one



Slot two

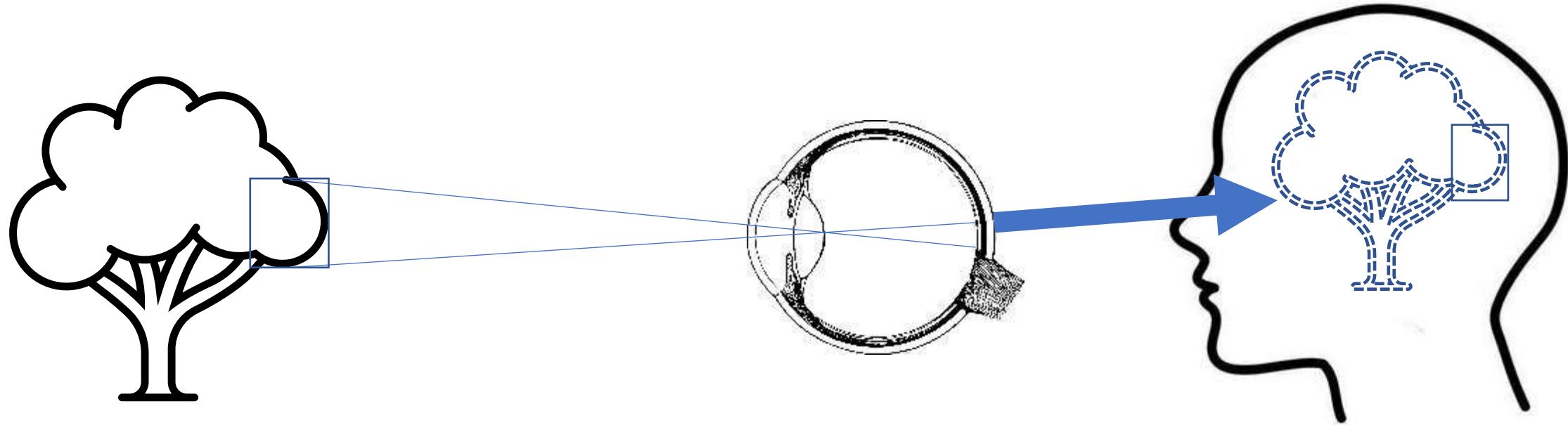


Slot three



“Long Term memory”



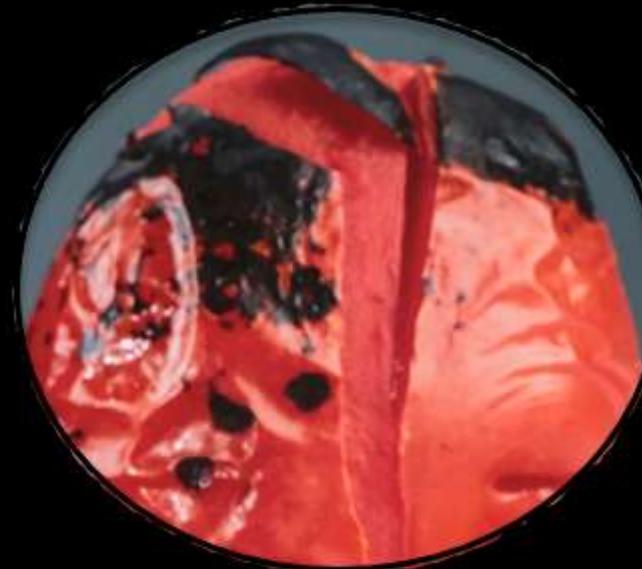


A white plate is filled with a variety of foods. In the center is a roasted chicken with a dark, crispy skin. To the left, there's a serving of green broccoli florets and a slice of orange bell pepper. To the right, there are several pieces of yellow bell pepper. In the background, two whole red tomatoes have been cut in half, revealing their seeds and a juicy interior. The plate is set against a dark, neutral-colored background.

Look at this image.







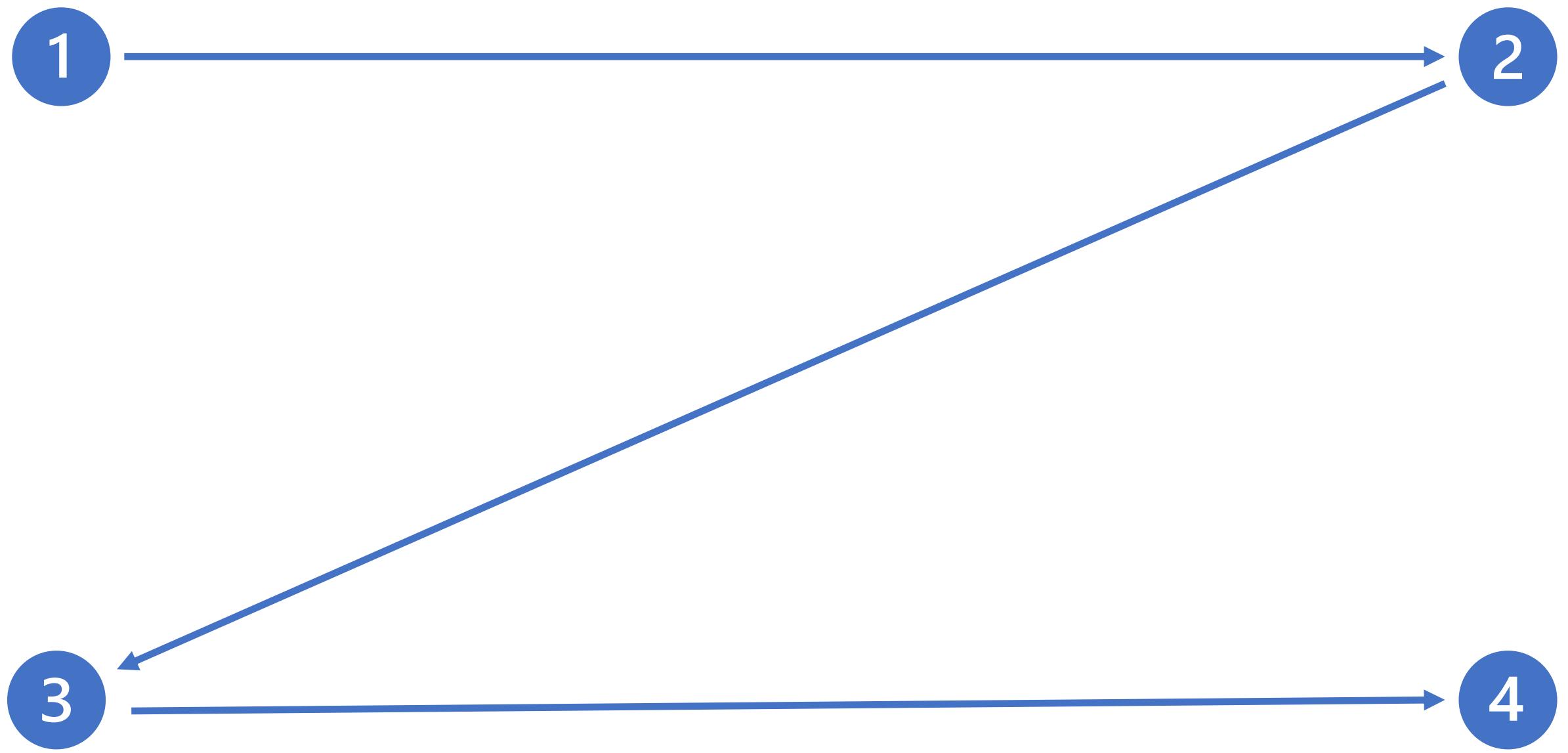






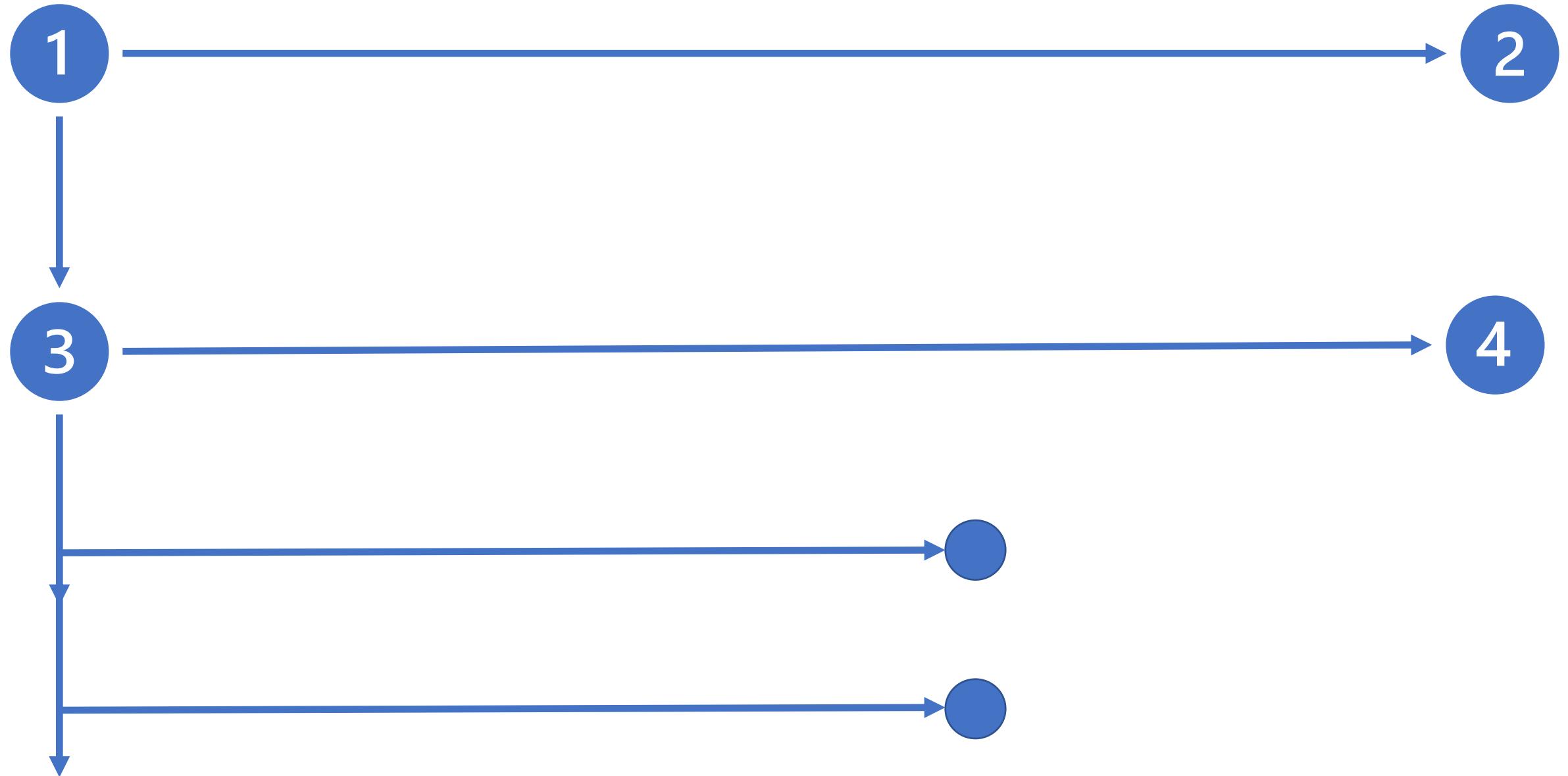
Z

scanning



F

scanning



And?

So what?



DREAM CHASER

COGNITIVE OVERLOAD

A photograph of a woman with short brown hair, wearing a black jacket over a white shirt, sitting at a desk. She has a shocked or overwhelmed expression, with her mouth slightly open and eyes wide. Several yellow sticky notes are flying through the air around her head, suggesting a state of cognitive overload. In the background, there's a whiteboard with some writing and a computer monitor.

IN THE MAKING

Note: I live inside this website Monday to Friday 9am-6pm, to give you the very best service and make your experience a happy one! - I am Ling, accept no substitutes



version 238.20160215

You can trust me! ... In 2014 I rented over £75 million of cars (at RRP)!

PLAY GAME!



Play stupid game
NEW

Close (X)

CAR
LEASING
*Want a cheap
new lease car?
Start HERE!*



My cheapest
leasing deals!

Click to chat
with Ling



ABARTH LEASE
CARS

595
595 Convertible



ALFA ROMEO CARS

CAR LEASING - CONTRACT HIRE - CHEAP LEASE CAR

Home

Cars
and
Vans

How It
Works

Price
Lists

About
Ling

me!
WAH!
1500+ Letters

Customers

Fun
Stuff

Quote/
Order

Business Customer Pricing

Personal Customer Pricing

The Best FAQs in the World!

NEW

SEXY

Christine
full rep
here

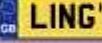
Search Cars Here

Go

FEAR
CARS



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Follow Me



LING'S LIVE TWITTER FEED

LIVE WEB
CAM



Intro

Film

News

Blog

Office

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Contact

Moan

Links

Play Quiz

Privacy

Policy

Google Visitors

JUST CLICK!!



THE BEST...
FREQUENTLY ASKED QUESTIONS
...IN THE WORLD!



AS SEEN ON
TV
BBC TWO



DRAGONS DEN

Close (X)

LIVE



Richard Farleigh - "I wanted to invest; I was amazed by Ling's complete lack of nerves, and also by her business acumen."

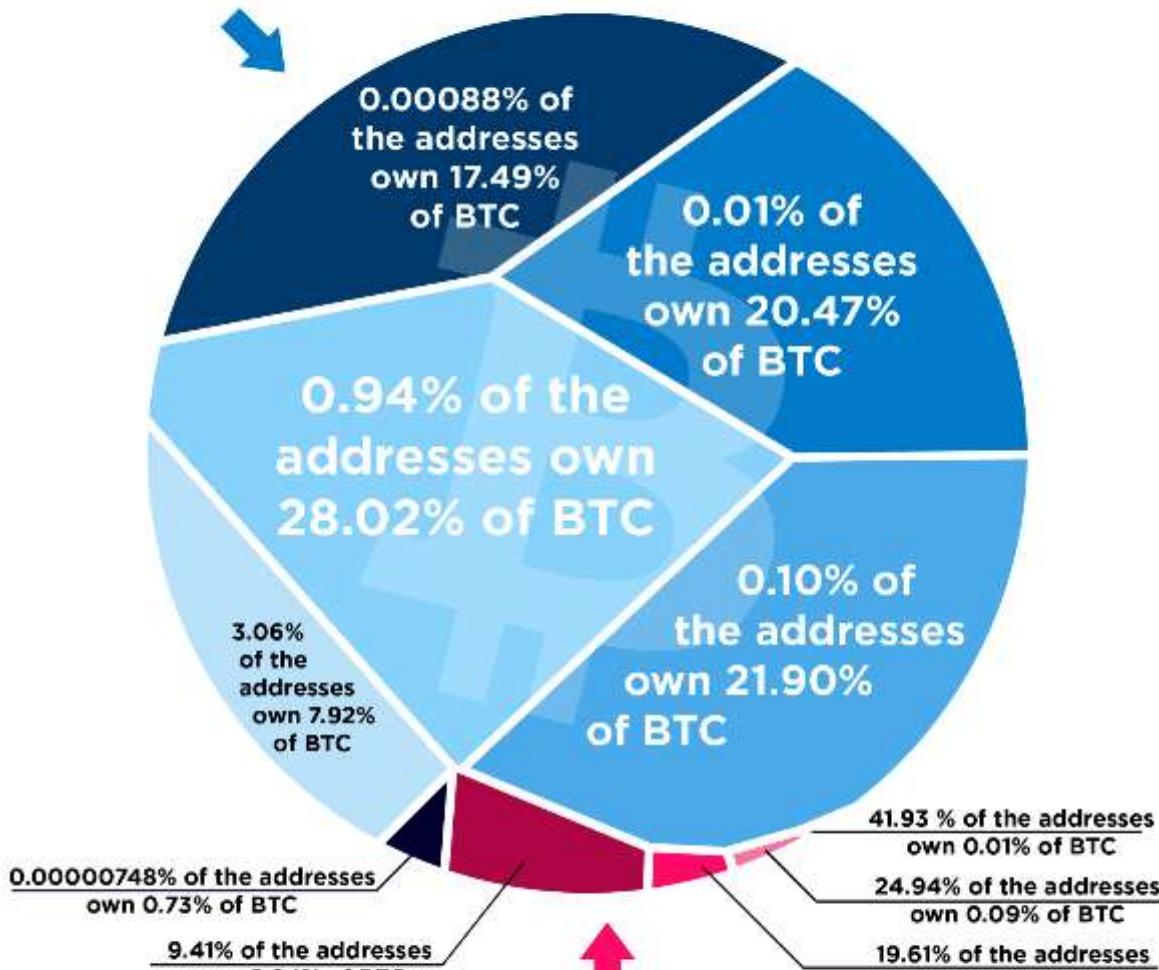
Duncan Bannatyne - "I wanted to invest... but ye turrn'd me doon!"

Deborah Meaden - "Harrumph! I!"

MEET MY STAFF

The Bitcoin Wealth Distribution

4.11% OF ADDRESSES OWN 96.53% OF BTC*



95.89% OF ADDRESSES OWN 3.47% OF BTC*

* Data as of September 12th, 2017

Article and Sources:

<https://howmuch.net/articles/bitcoin-wealth-distribution>

<https://bitcoinprivacy.net/>

Violent crime rates

1990=100

Philadelphia Houston Phoenix San Diego Dallas Los Angeles New York



London

51.51 N, 0.13 W

Mon 9 Dec @ 16:02:42

[Go to Map](#) - [Go to Grid](#) - [Change City](#)

WEATHER STATIONS (MULTIPLE SOURCES)

STATION	WIND SPEED	WIND GUSTS	DIRECTION	TEMPERATURE	HUMIDITY	RAIN TODAY	PRESSURE	FORECAST
CASA Office: Bloomsbury W1	8 mph	9 mph	SE ↘	11.5 °C	76%	0.0 mm	1027.9 mbar	Clear Night
Lambeth Meters: Brixton SW9	4.3 mph	4.3 mph	SW ↗	11.0 °C	83%	0.0 mm	1026.4 mbar	Clear Night
Hampstead NW3	3.6 mph	3.6 mph	S ↑	9.8 °C	84%	0.0 mm	1029.0 mbar	Clear Night

WEATHER (METAR)

London City Airport	
Mostly clear	SW at 3 mph 11 C

FORECAST (YAHOO! WTH)

Mon	Tue
10 C Mostly Clear	9 C Partly Cloudy

TUBE LINE STATUS (TFL)

Bakerloo	Good Service
Central	Good Service
Circle	Good Service
District	Good Service
H & C	Good Service
Jubilee	Good Service
Metropolitan	Good Service
Northern	Good Service
Piccadilly	Good Service
Victoria	Good Service
W & C	Good Service
Overground	Good Service
DLR	Good Service

BIKE SHARING (TFL)



IN SERVICE (TFL)

7197	London buses
378	Underground trains

AIR POLLUTION (DEFRA)

µg/m³	OZONE	NO₂	SO₂	PM₂₅	PM₁₀
TIME AVOG	13	38	4	9	10
Bloomsbury	9	16	26	22	34
Marylebone Rd	14	40	?	12	18
N Kensington					

RADS (CASA)

CASA Office Desk	‡
6	cpm (uncalibrated)

RIVER LEVEL (PLA)

Thames (Tower Pier)
4.13 metres

STOCKS (YAHOO)

FTSE 100 Index
6552.34 +0.35 (0.01%)

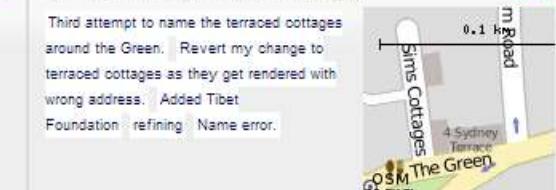
RANDOM TRAFFIC CAMERAS (TFL)



BBC LONDON News (BBC)



OPENSTREETMAP UPDATES (OSM)



ELECTRICITY (N.GRID)

Demand (Great Britain)
48211 MW

Mood (LSE MAPPINESS)

8% unhappy than the long term average for here	13% happier than the whole country right now
---	---

TWITTER TRENDS FOR LONDON

MPs #NFL Christmas #Confident Xmas #ashes London
#RIPAlexTurner #12DaysofJonesDAY9 Waca





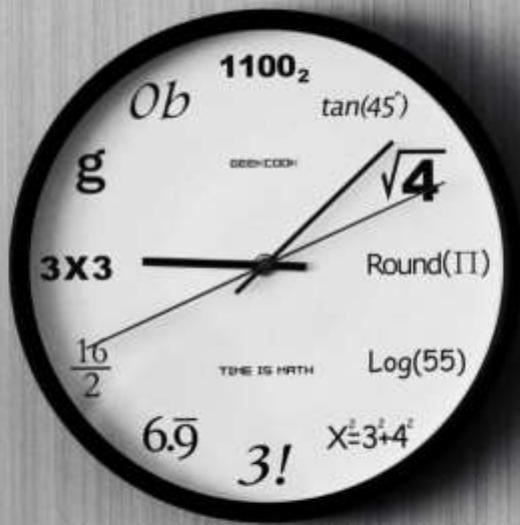
There are only
THREE slots in
my working
memory



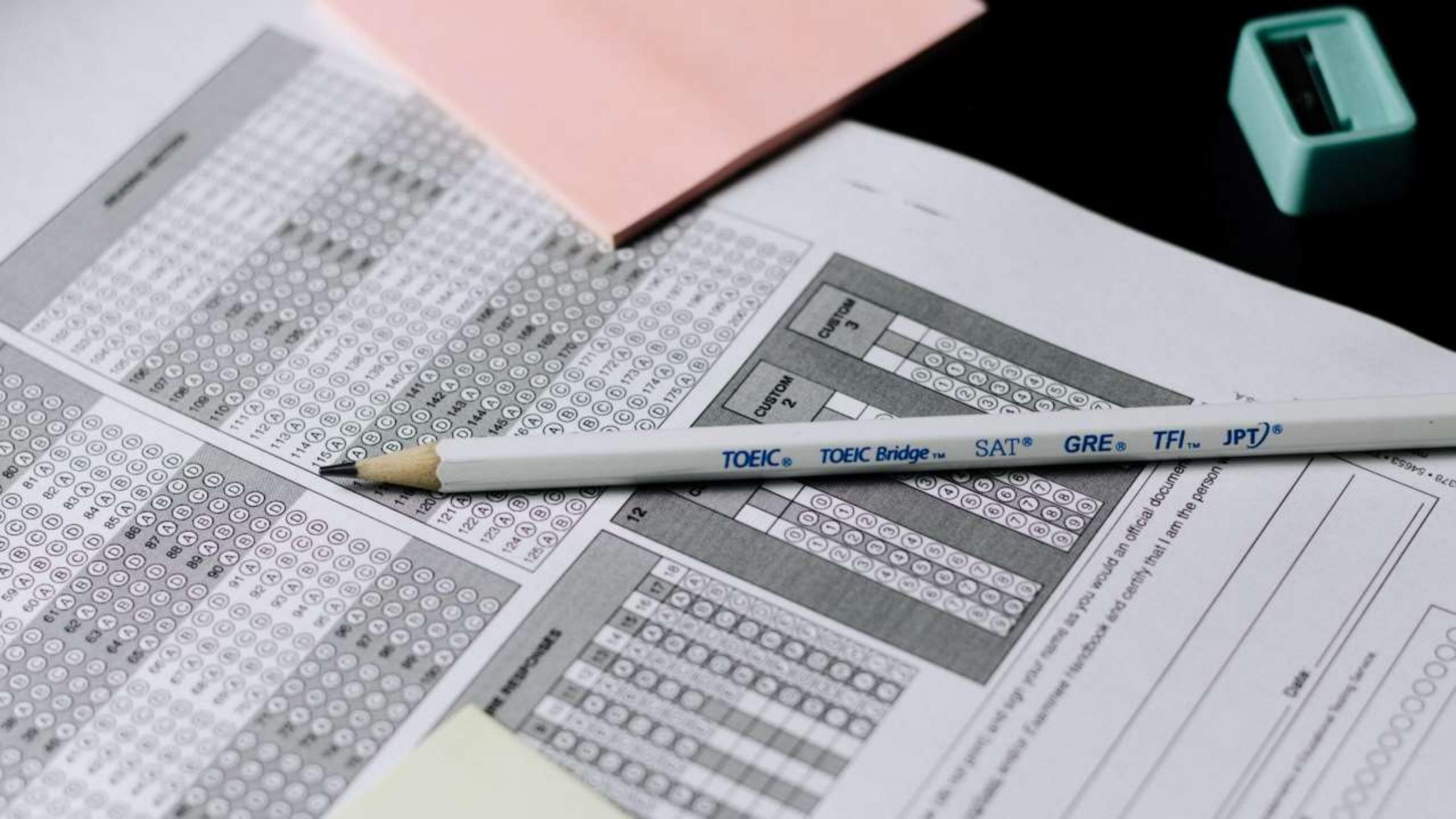


Preattentive Attributes





1	3	9	3	3	7	7	0	1	9	7	5	5	8	2	1
9	5	0	3	1	3	2	0	3	3	7	8	9	2	7	1
3	3	1	7	9	5	5	0	5	1	5	9	6	4	8	3
5	2	4	8	2	3	4	5	6	3	5	1	5	4	5	5
7	0	1	3	1	0	1	3	2	1	7	3	4	4	3	3
1	5	4	9	3	1	5	2	4	1	3	1	8	9	6	2
3	5	0	8	4	8	2	6	8	8	5	2	2	5	0	6
3	1	5	1	5	3	9	1	0	1	7	6	5	0	2	3
3	3	3	6	1	7	0	1	2	7	1	3	0	2	1	8
1	3	1	1	0	5	5	0	6	5	1	9	1	2	1	2
2	5	3	0	1	8	1	2	7	3	1	3	2	4	0	3
6	9	2	1	0	5	5	1	3	2	7	0	5	3	9	4

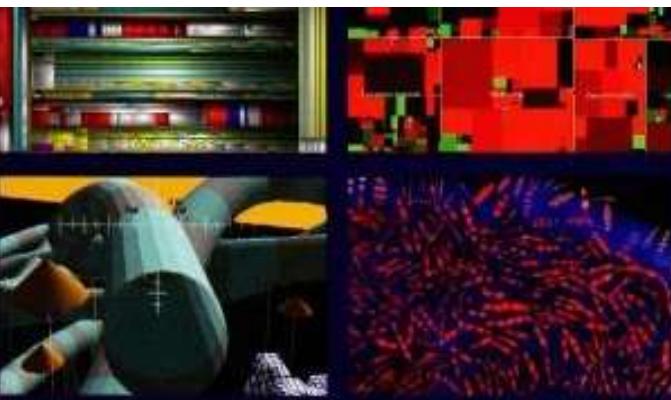
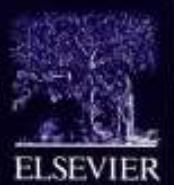


1	3	9	3	3	7	7	0	9	1	7	5	5	8	2	1
9	5	0	3	1	3	2	0	3	3	7	8	9	2	7	1
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5	2	4	8	2	3	4	5	6	9	5	1	5	4	5	5
7	0	1	9	1	0	1	3	2	1	7	3	4	4	3	3
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3	1	5	9	5	3	1	1	0	1	7	6	5	0	2	3
3	3	3	6	1	7	0	1	2	7	1	3	0	2	1	8
9	3	1	1	0	5	5	0	6	5	1	7	1	9	1	2
2	5	3	0	1	8	1	2	9	3	1	3	2	4	0	3
6	4	2	1	0	5	5	1	3	2	7	0	5	3	4	4





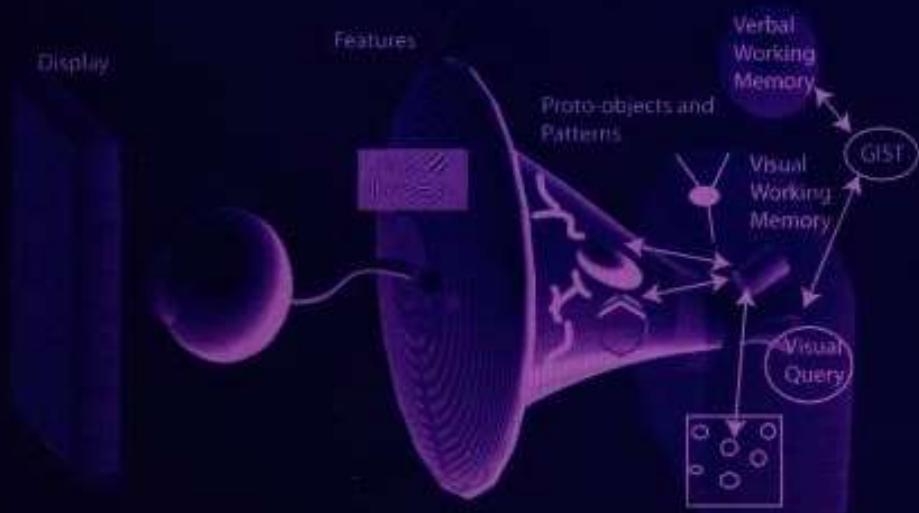
4



SECOND EDITION

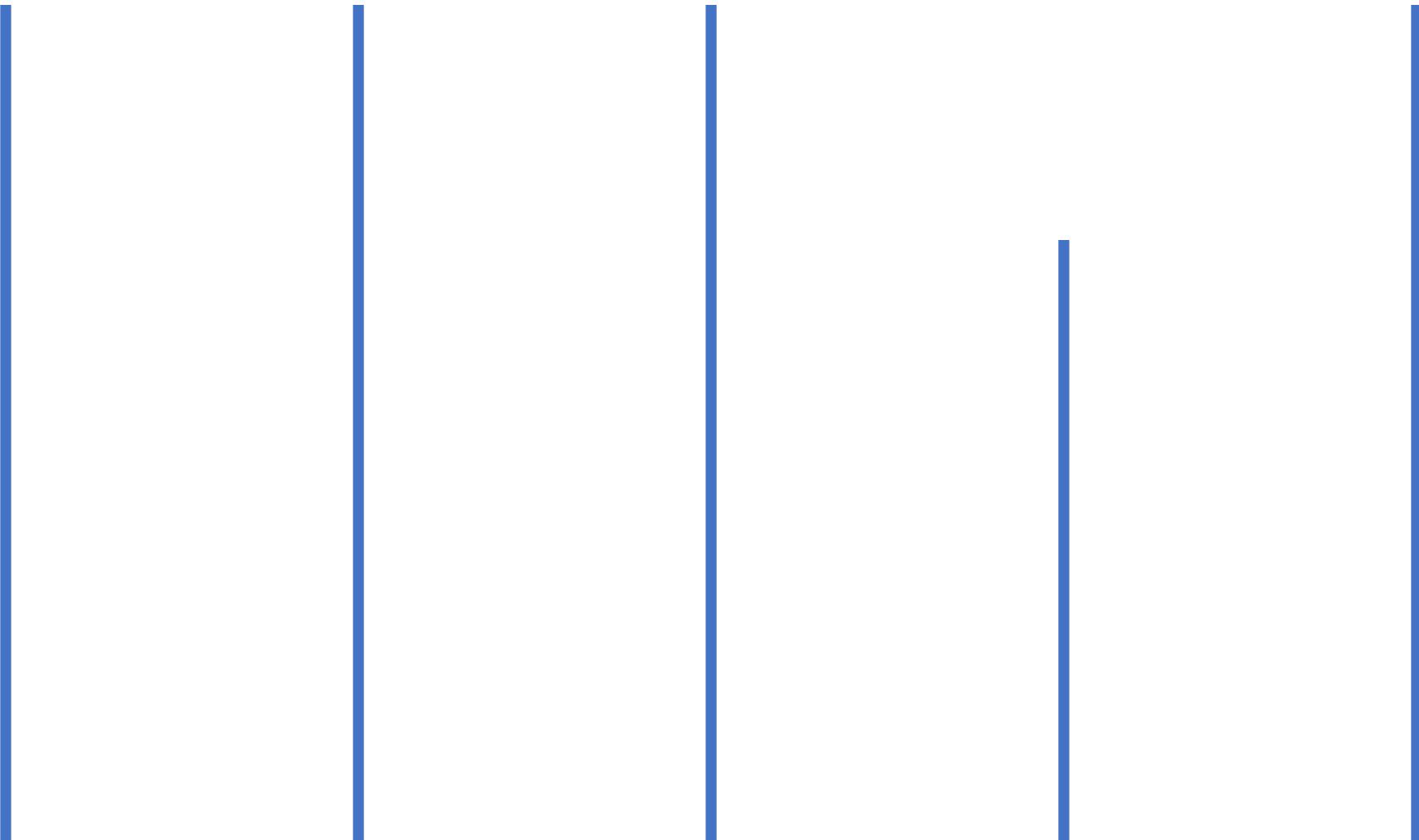
INFORMATION VISUALIZATION

PERCEPTION FOR DESIGN



Form

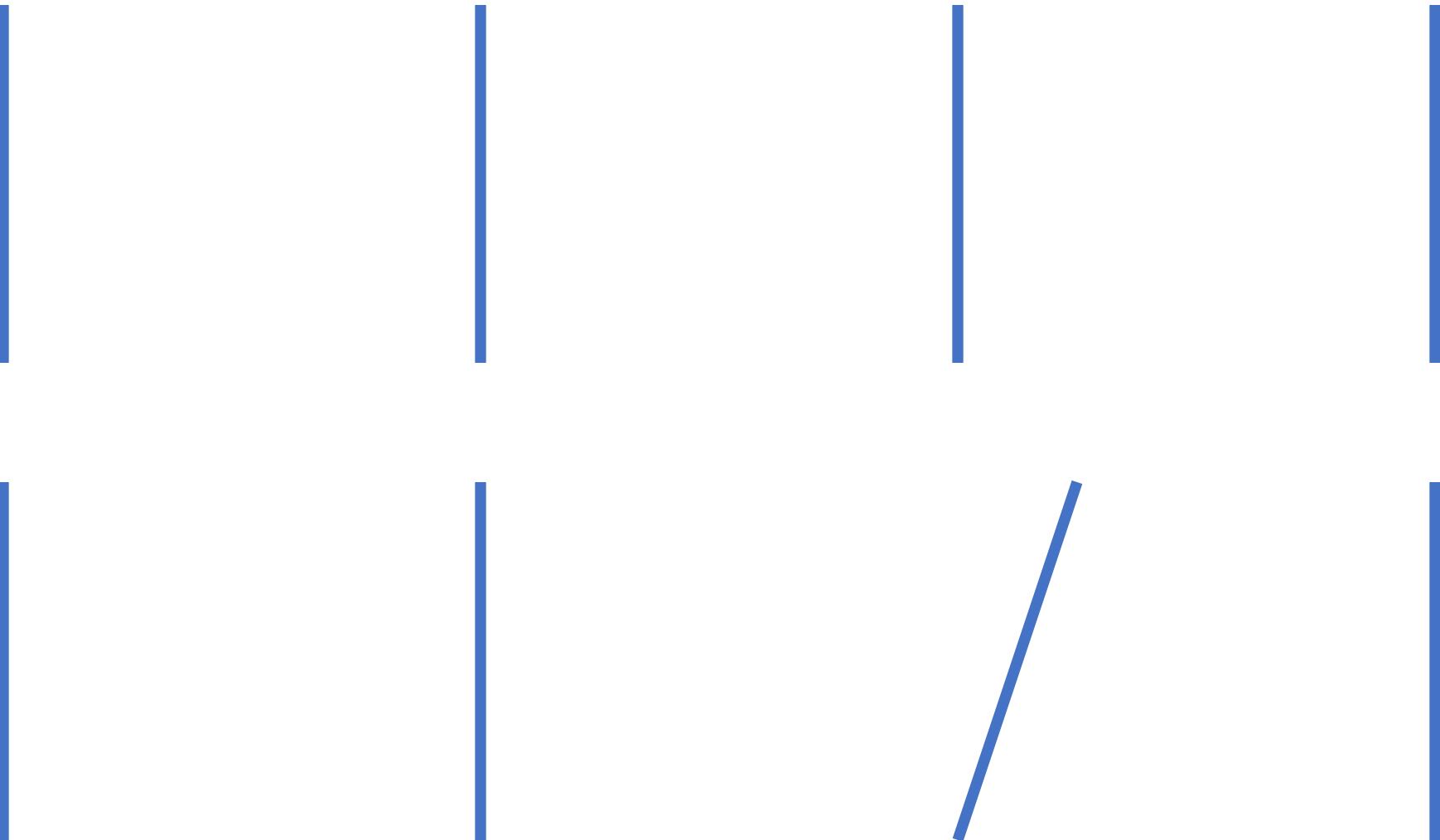
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Width



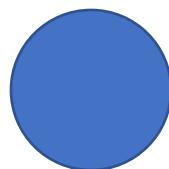
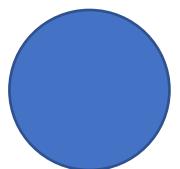
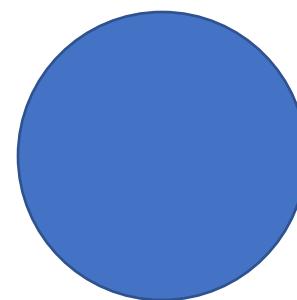
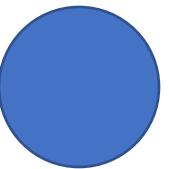
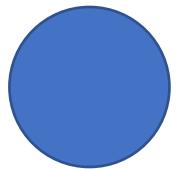
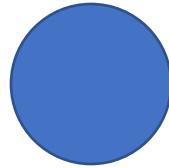
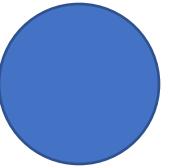
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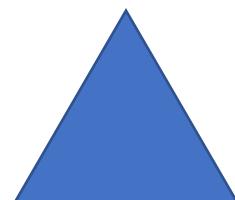
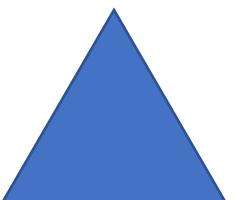
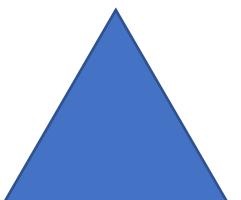
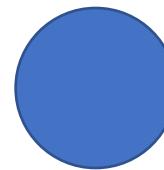
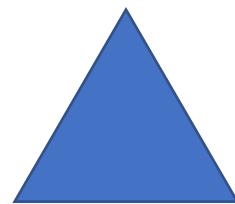
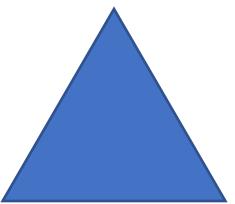
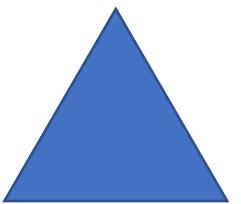
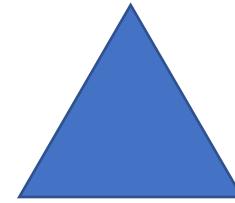
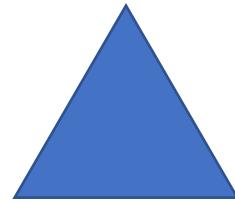
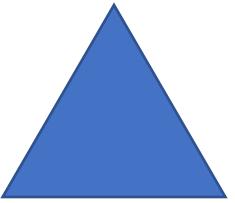
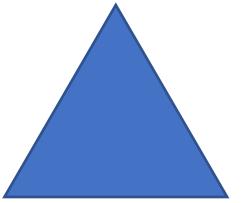
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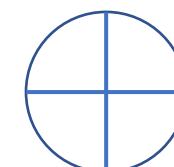
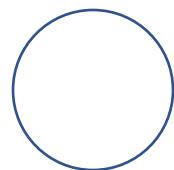
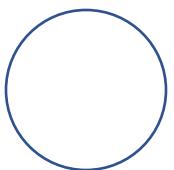
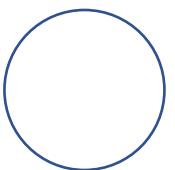
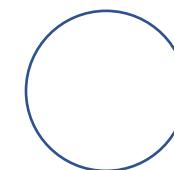
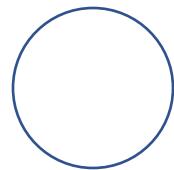
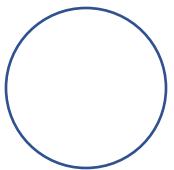
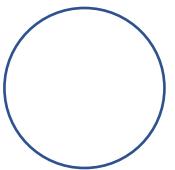
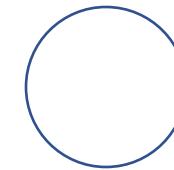
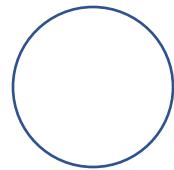
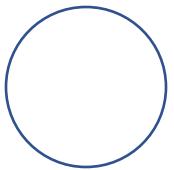
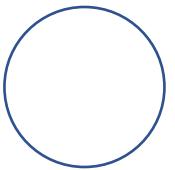
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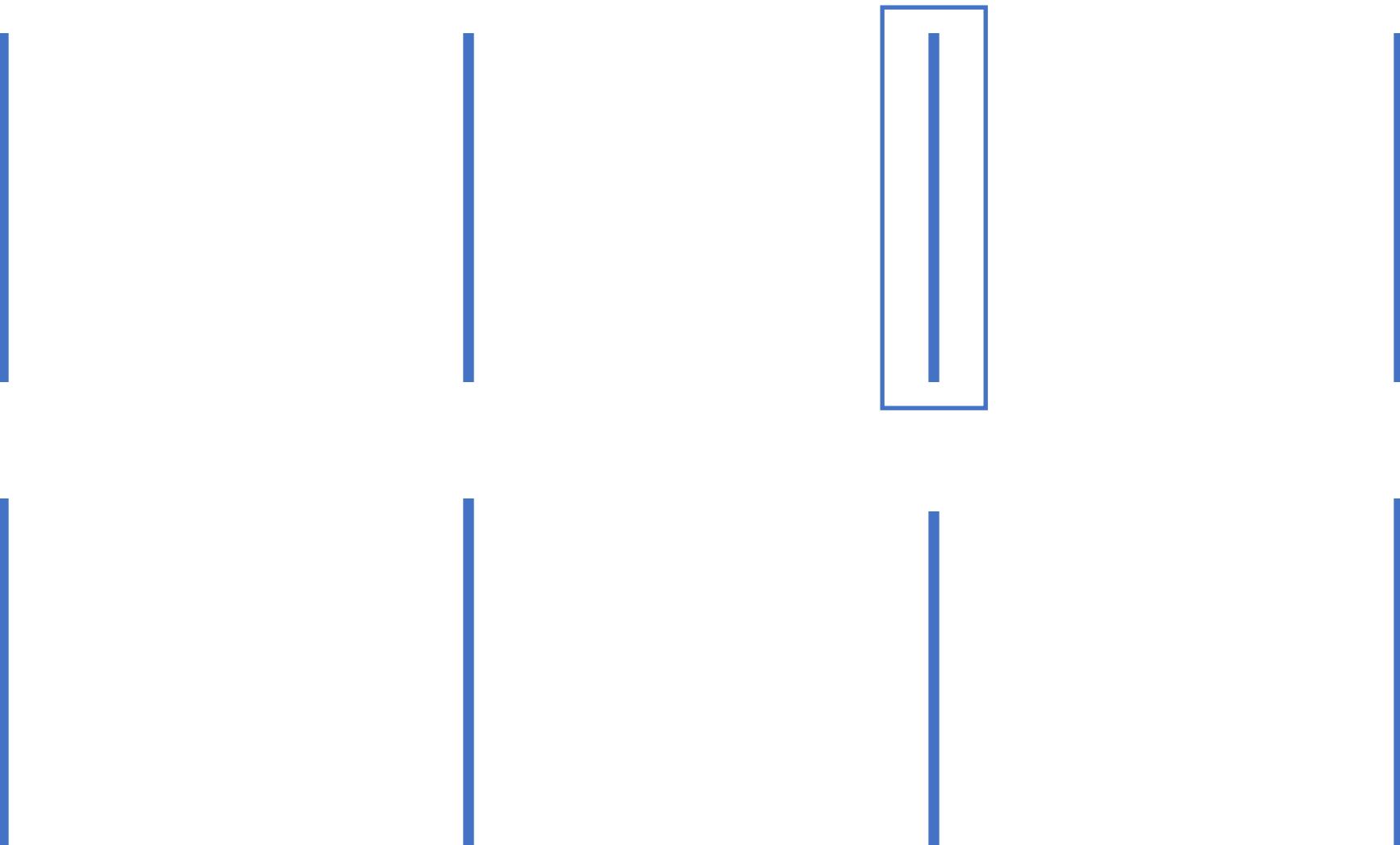
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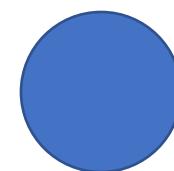
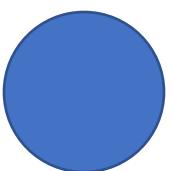
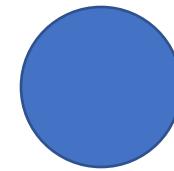
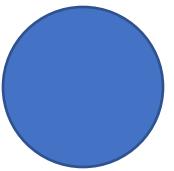
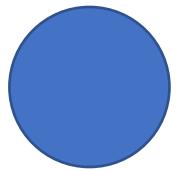
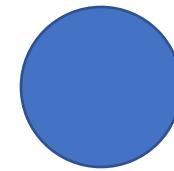
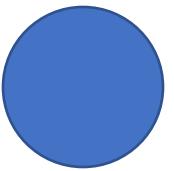
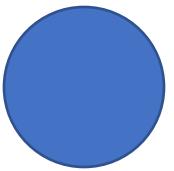
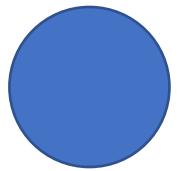
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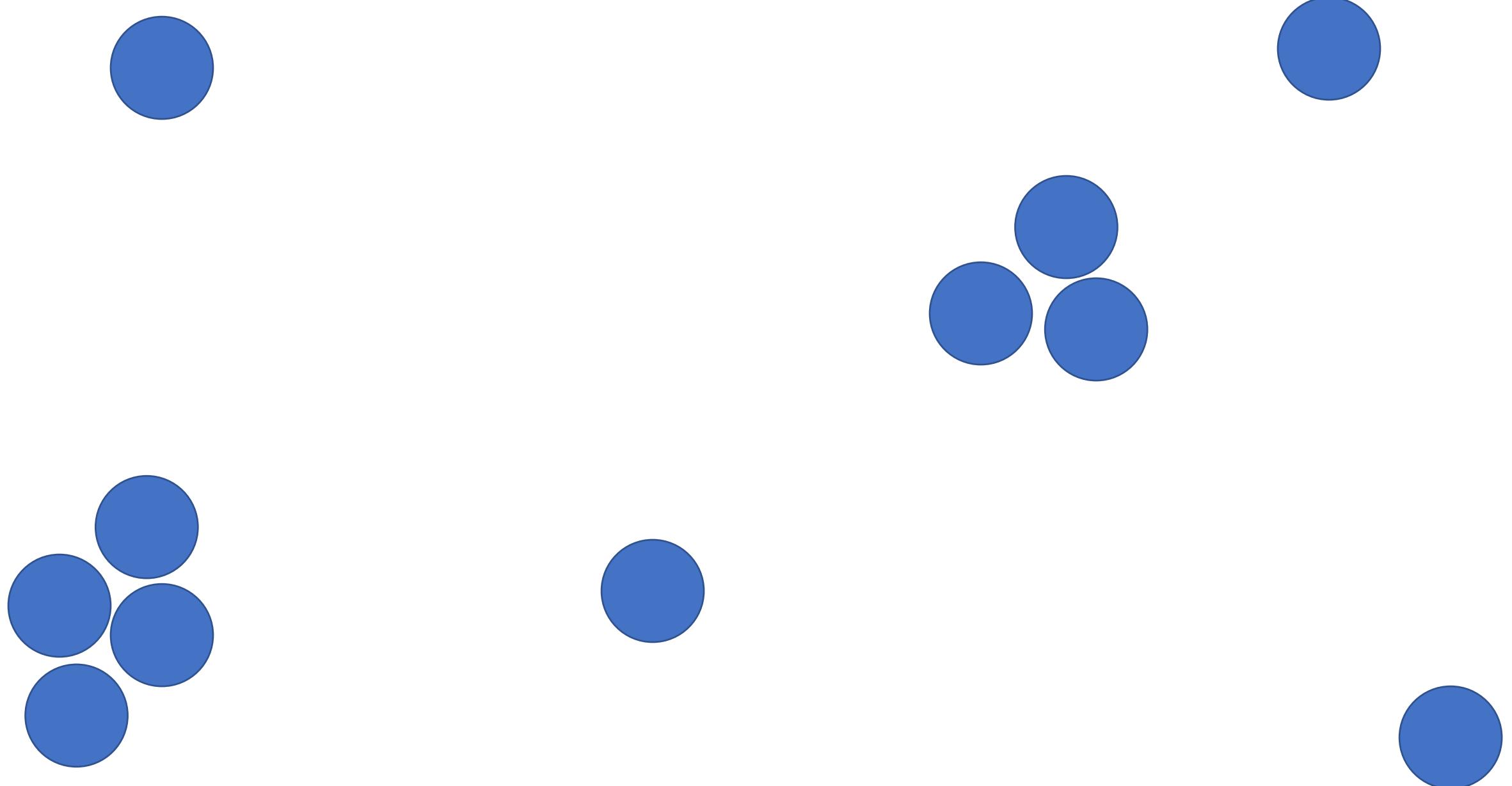
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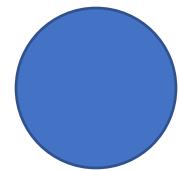
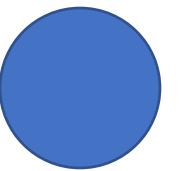
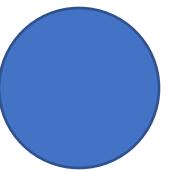
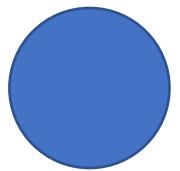
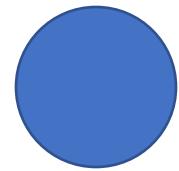
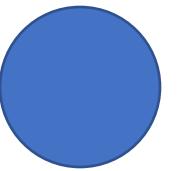
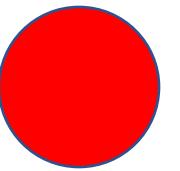
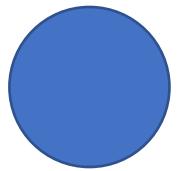
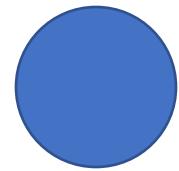
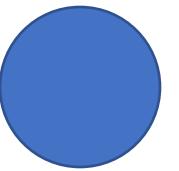
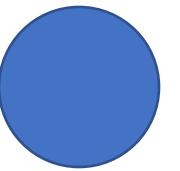
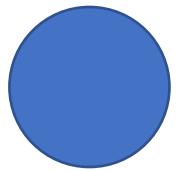
Blur



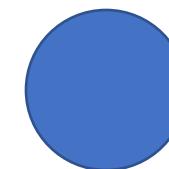
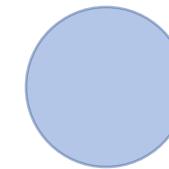
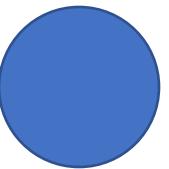
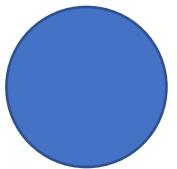
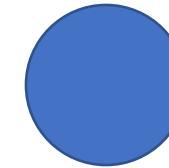
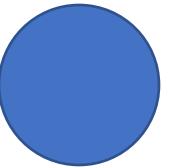
Spatial Grouping



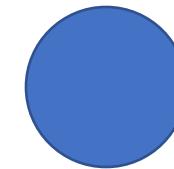
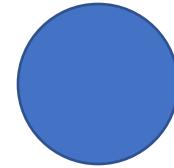
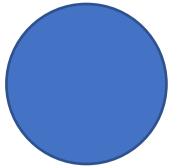
Hue



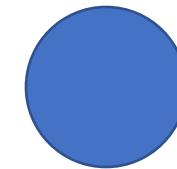
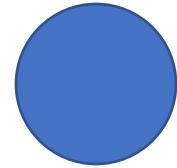
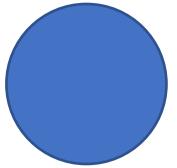
Intensity



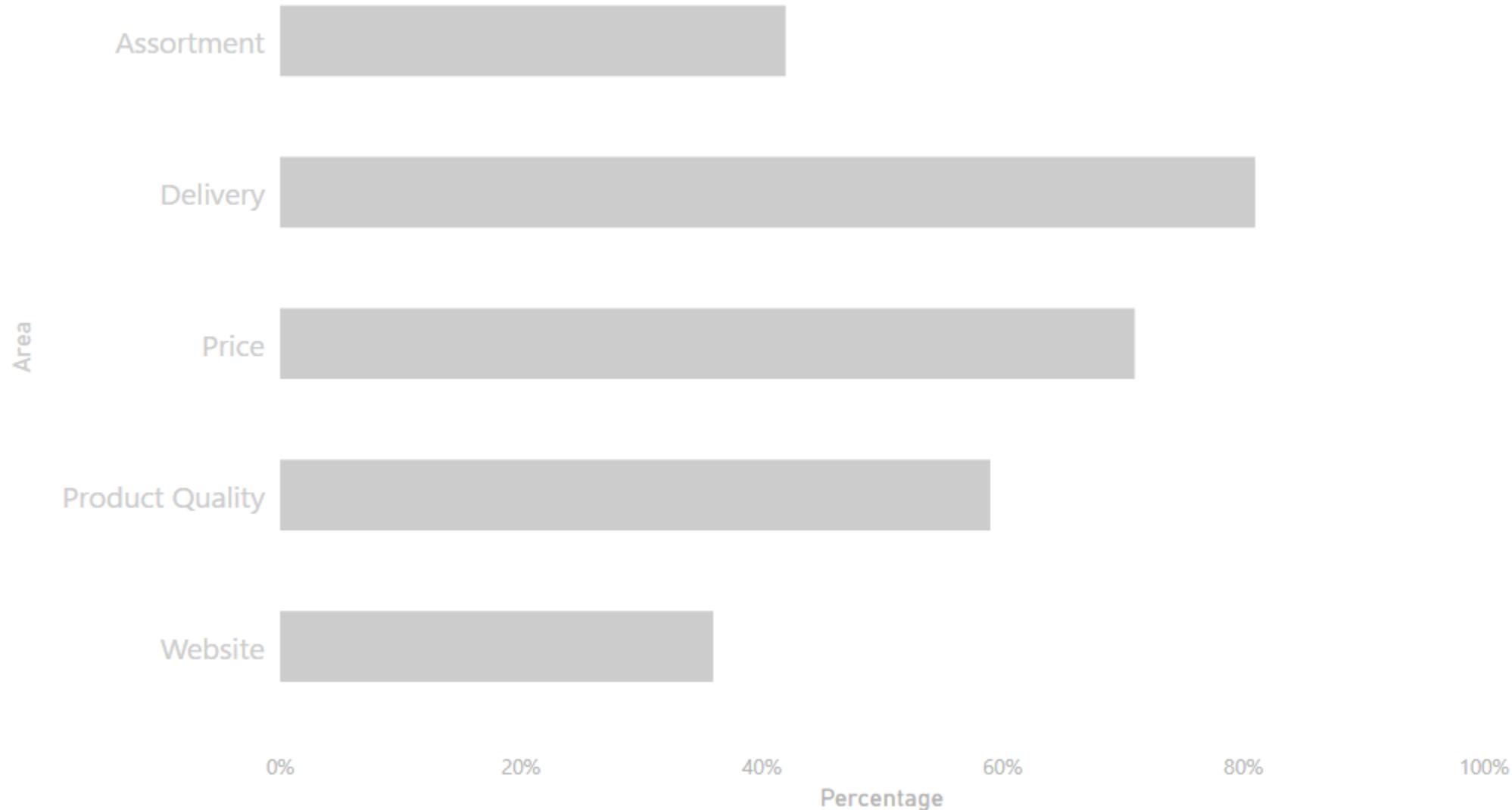
2D Position



Movement

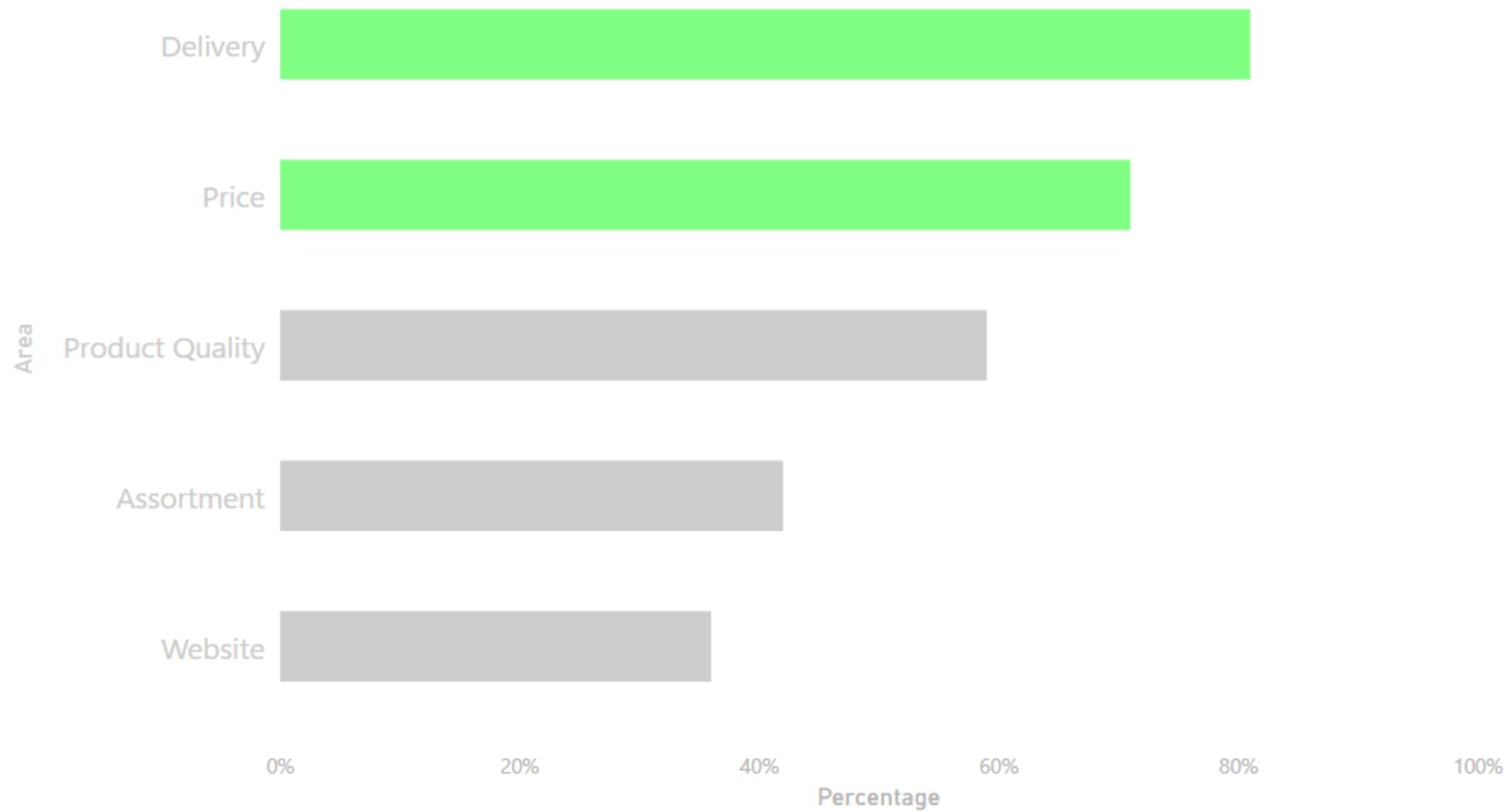




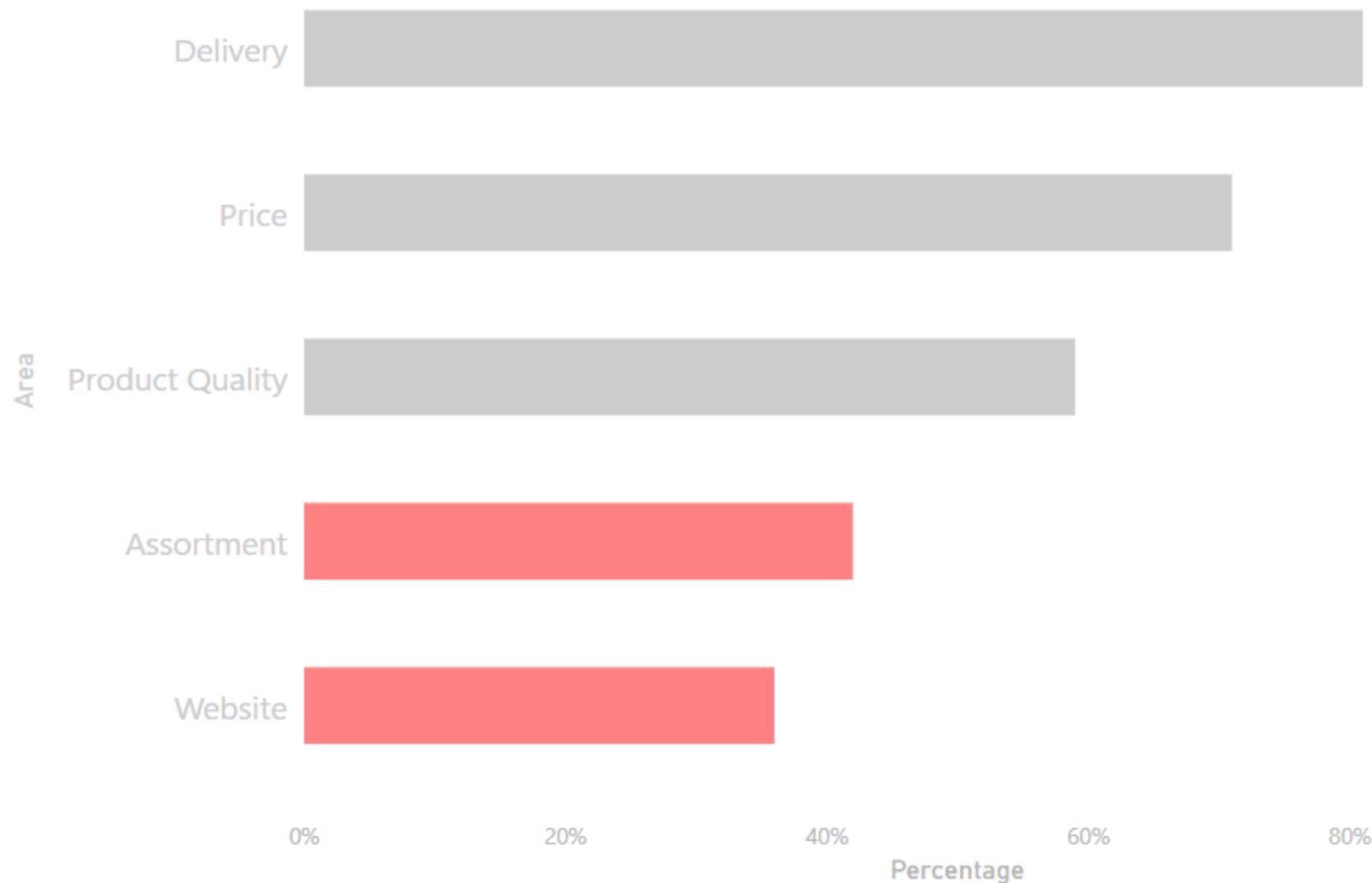


Website survey results

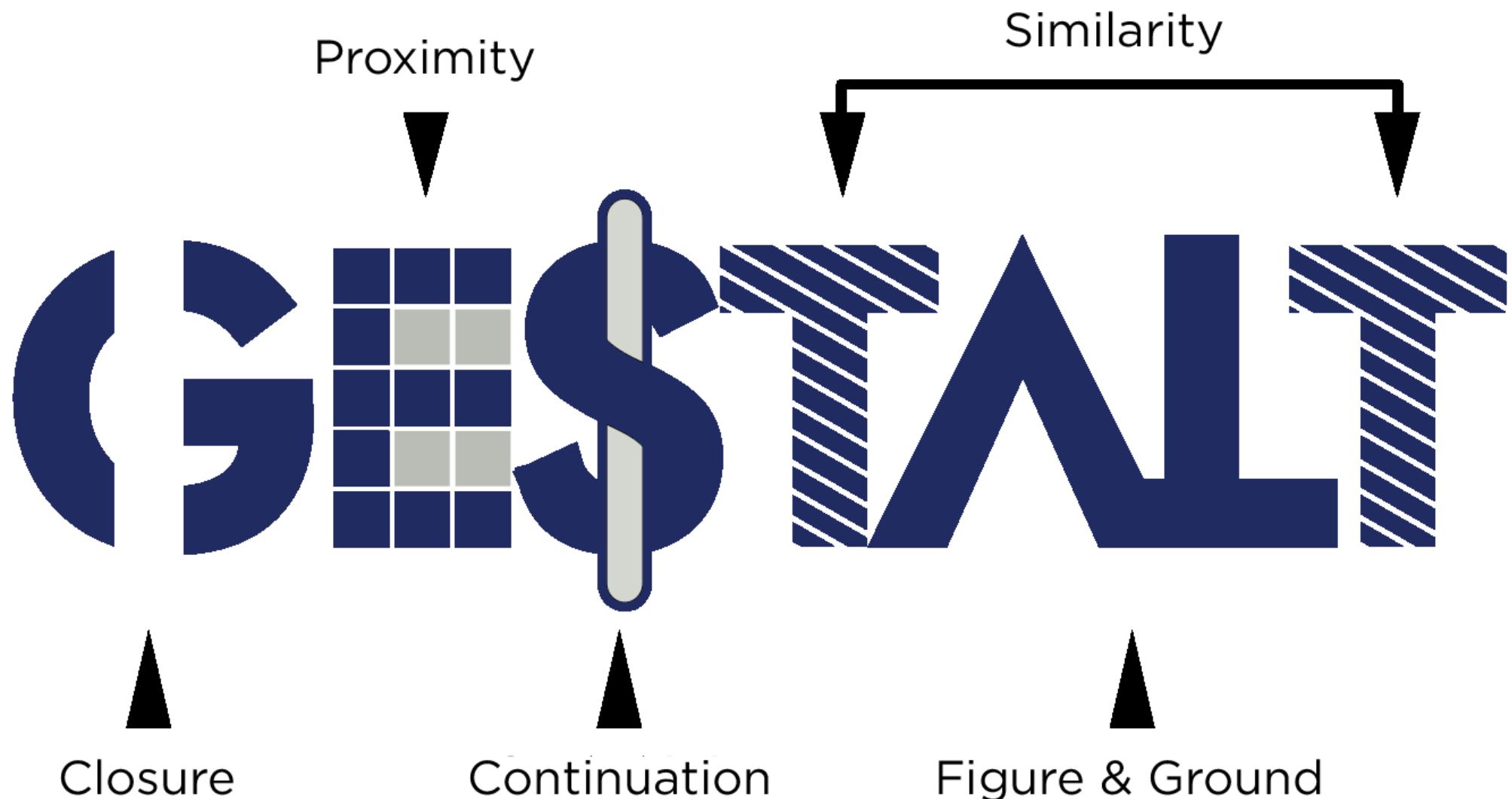
What are the best
performers?



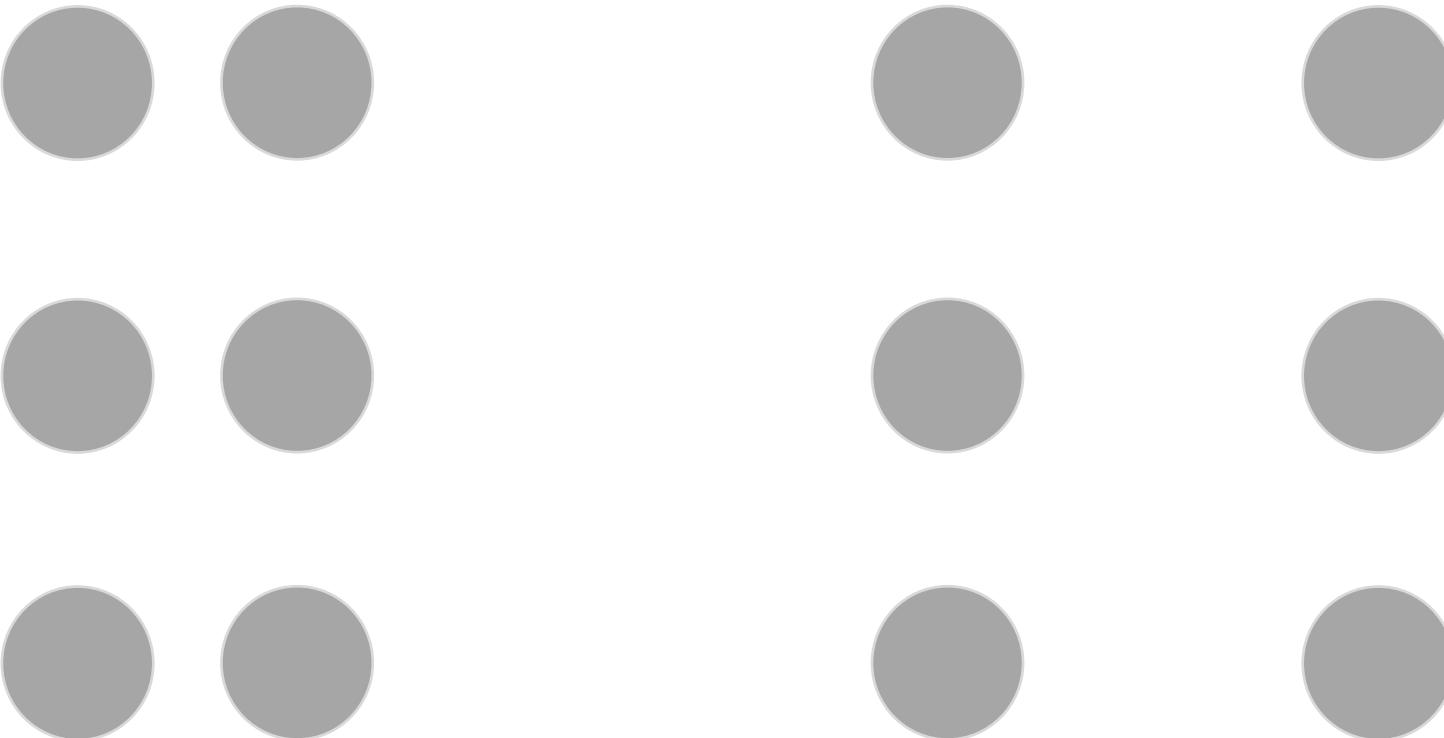
What are the
worst performers?



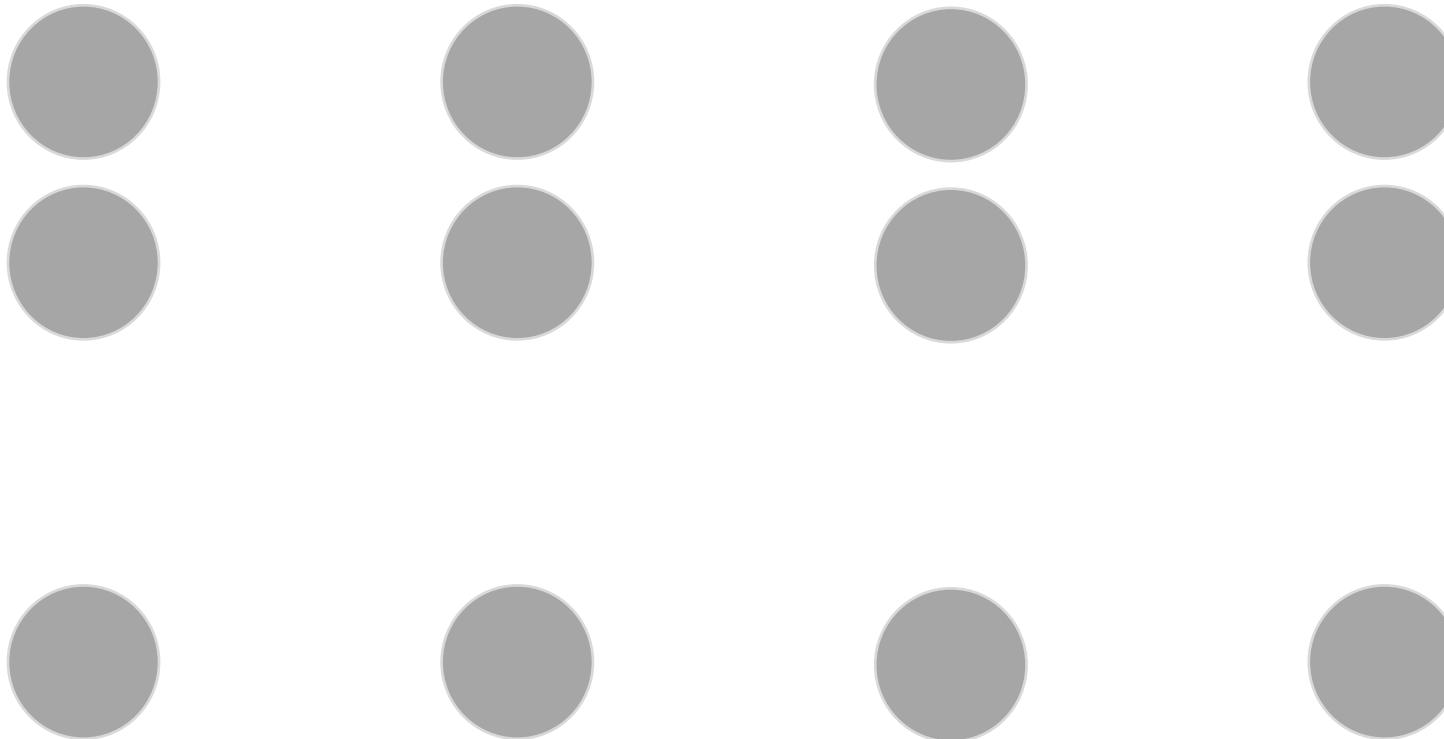




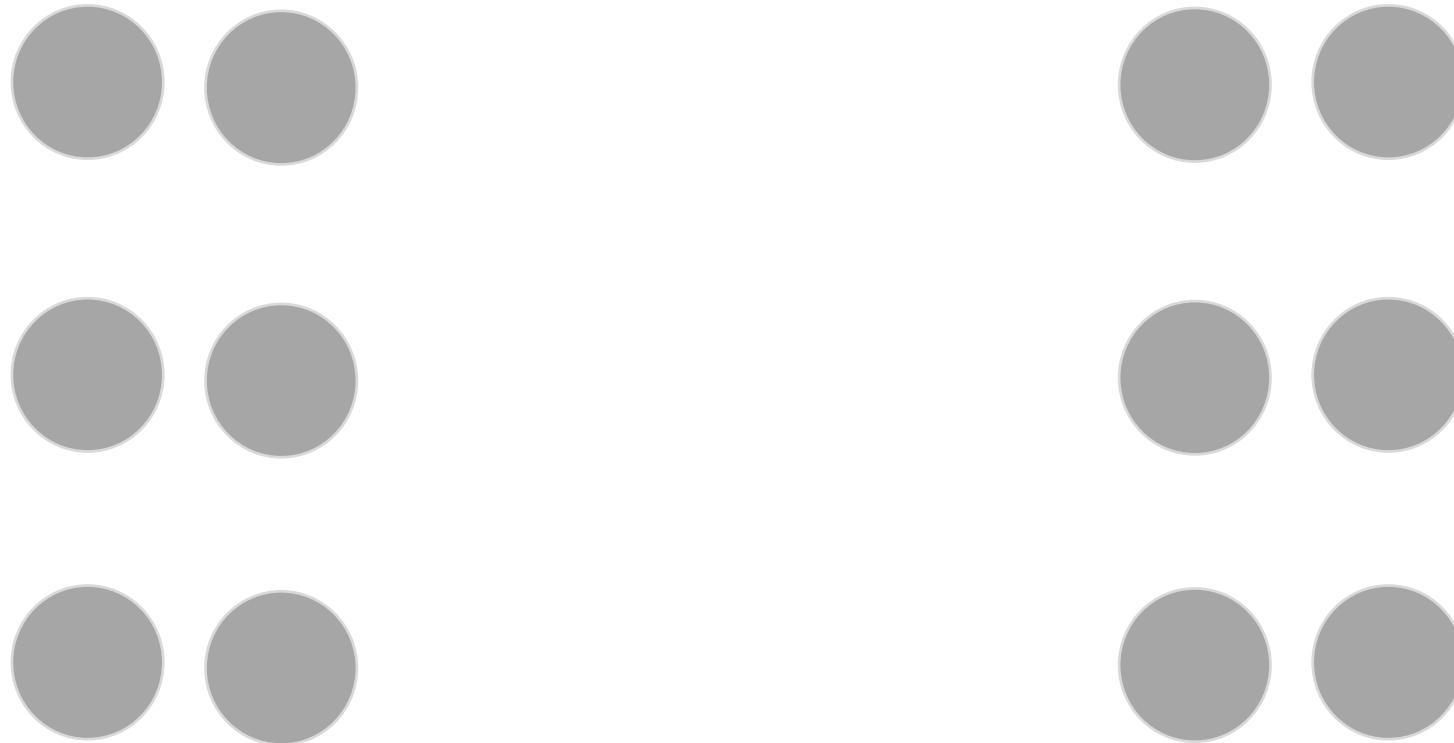
Gestalt principles



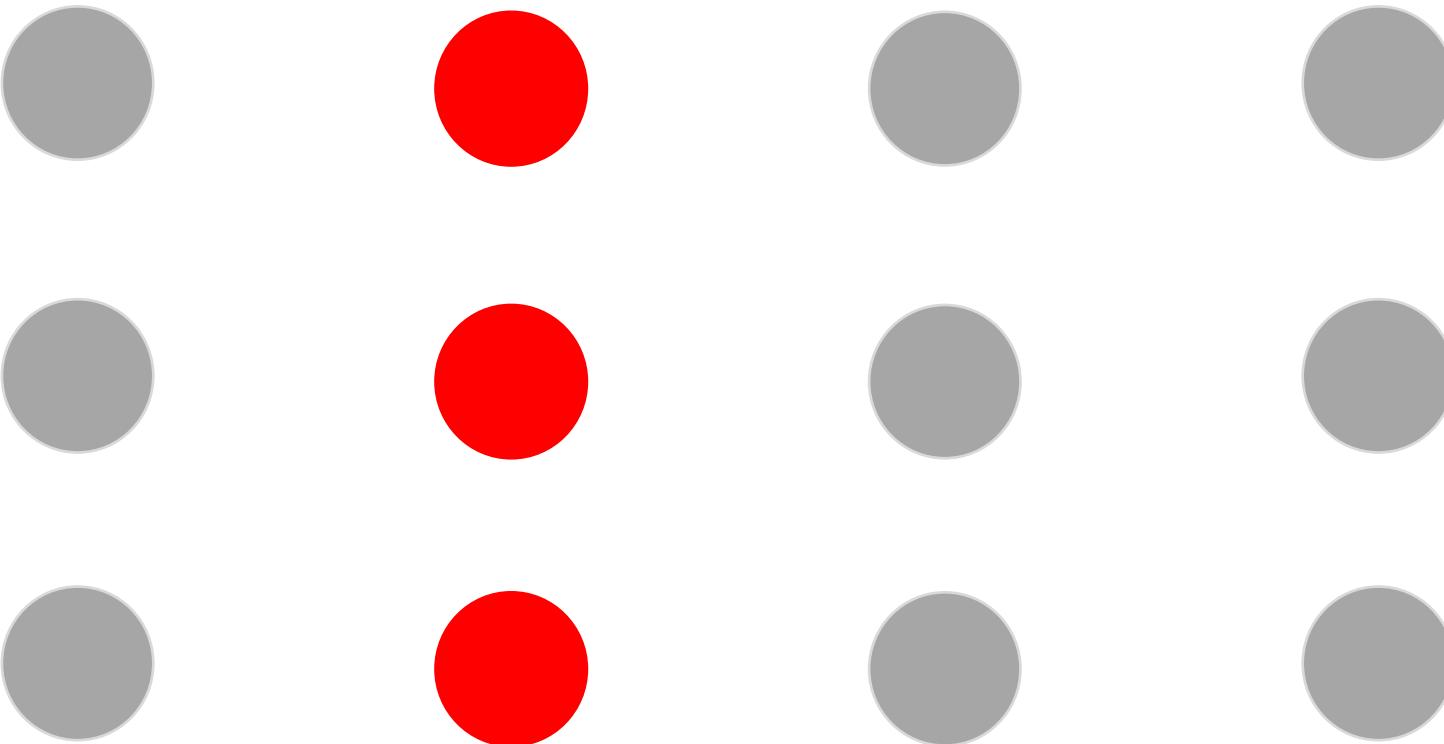
Proximity



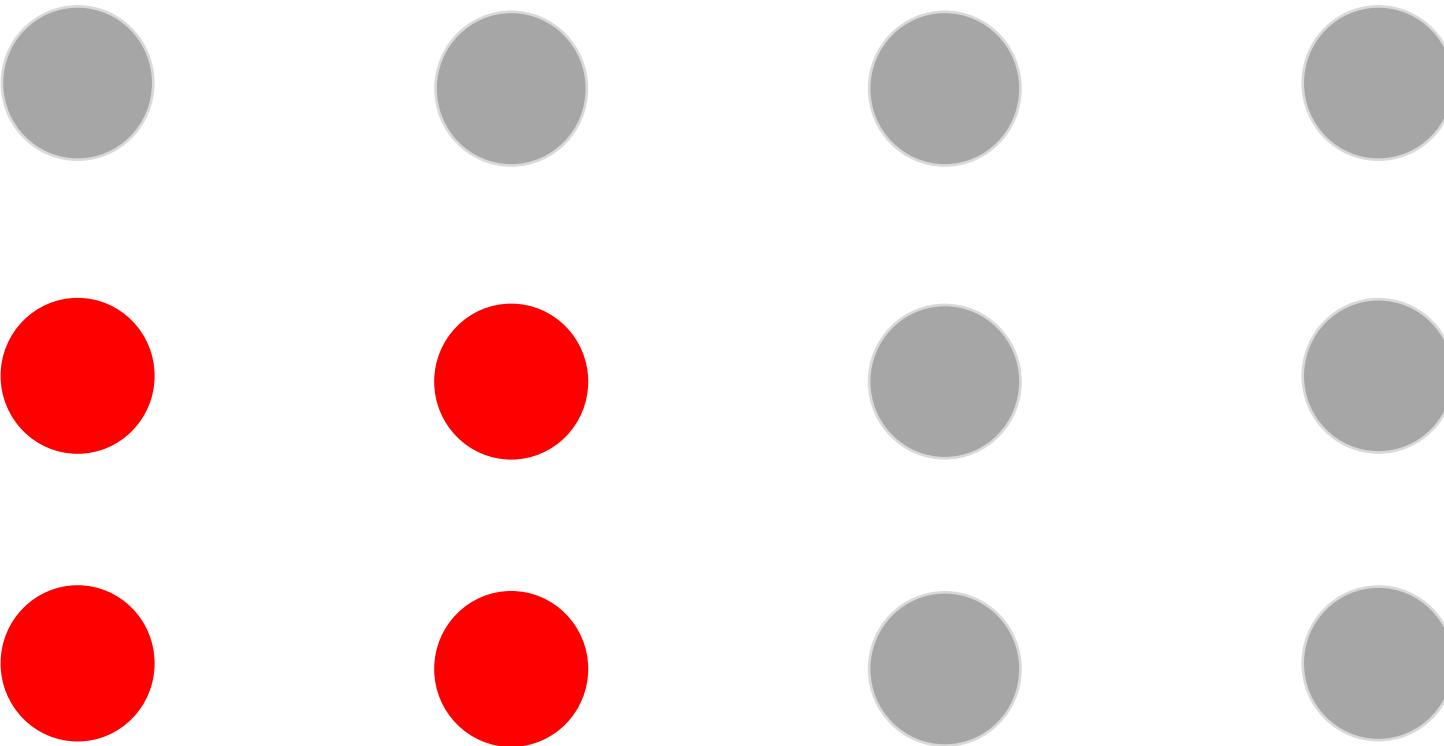
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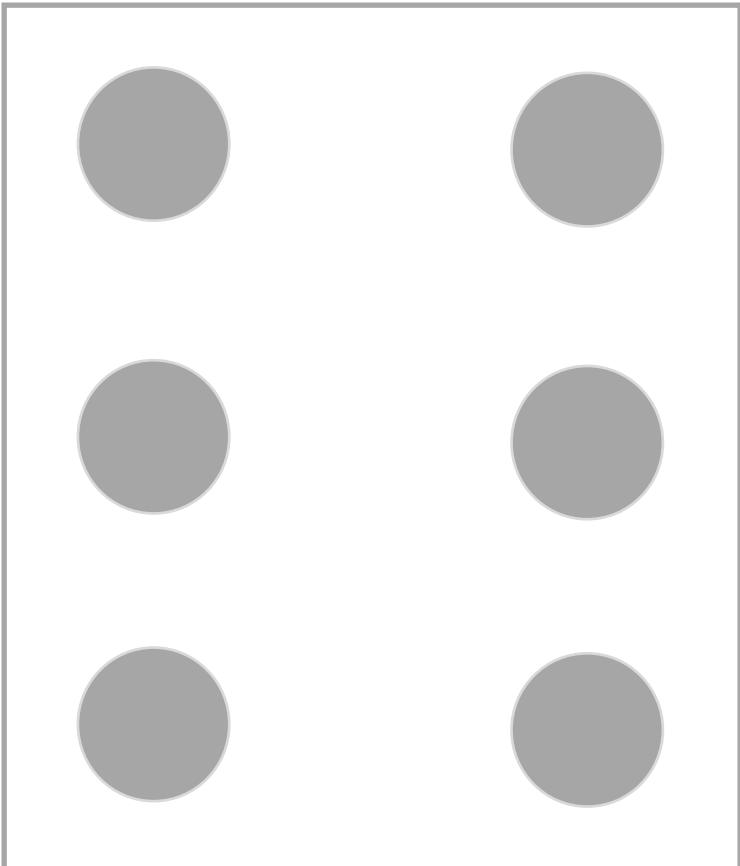
Symmetry



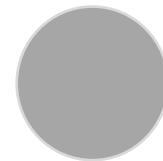
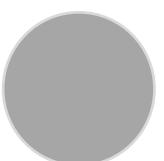
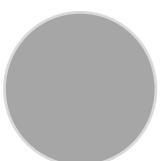
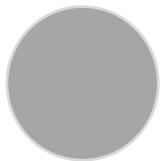
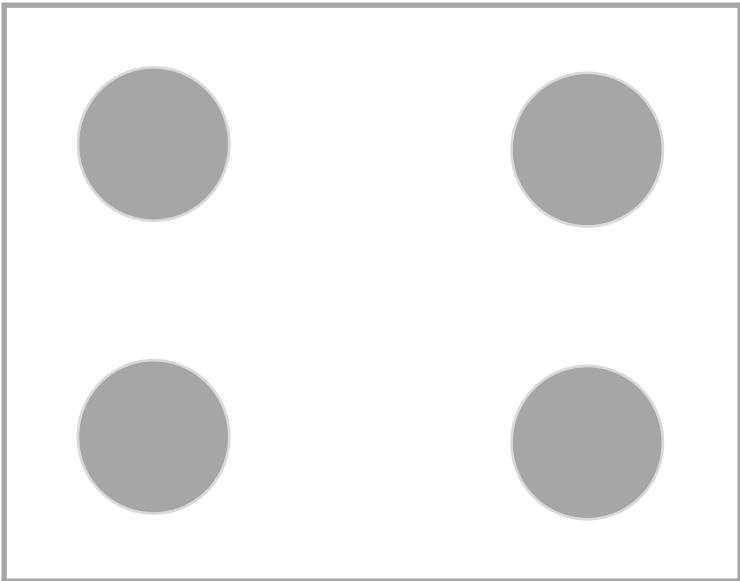
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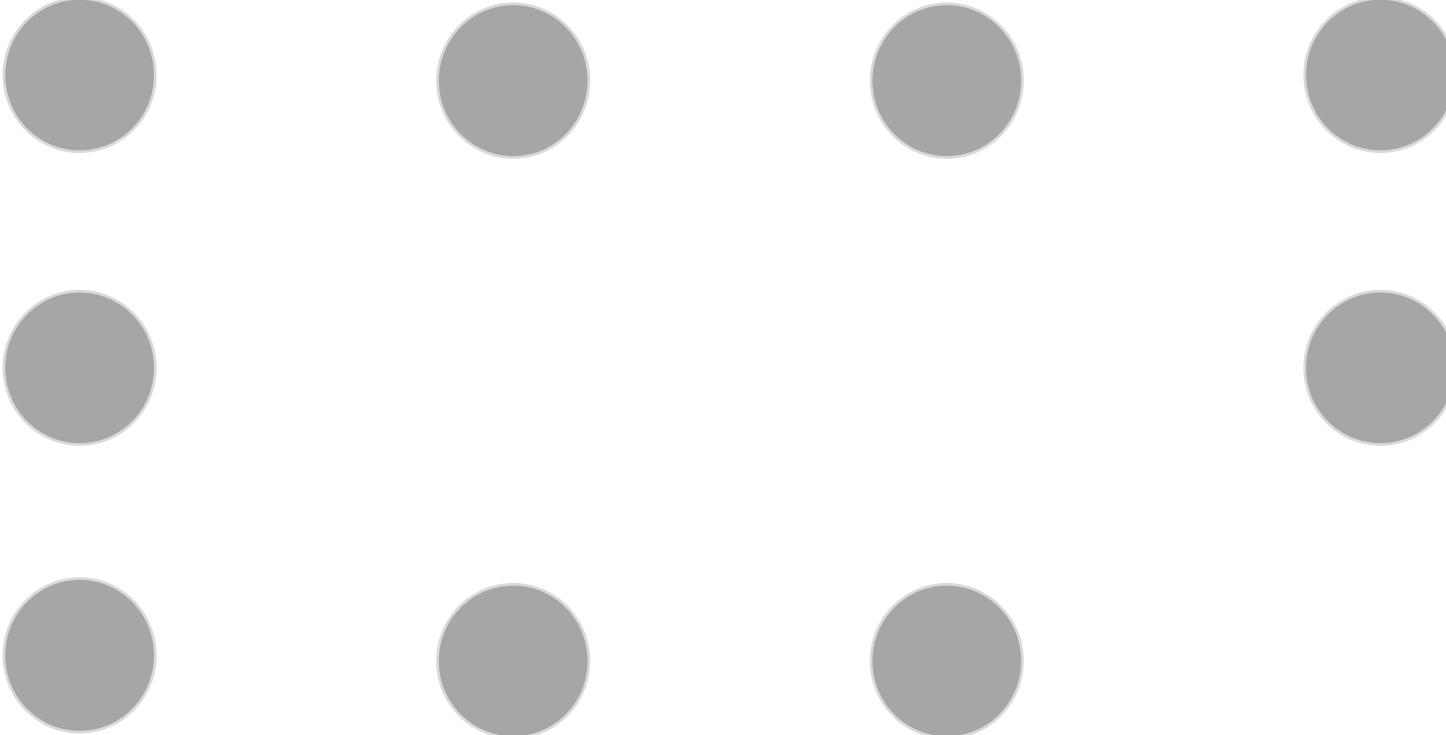
Similarity



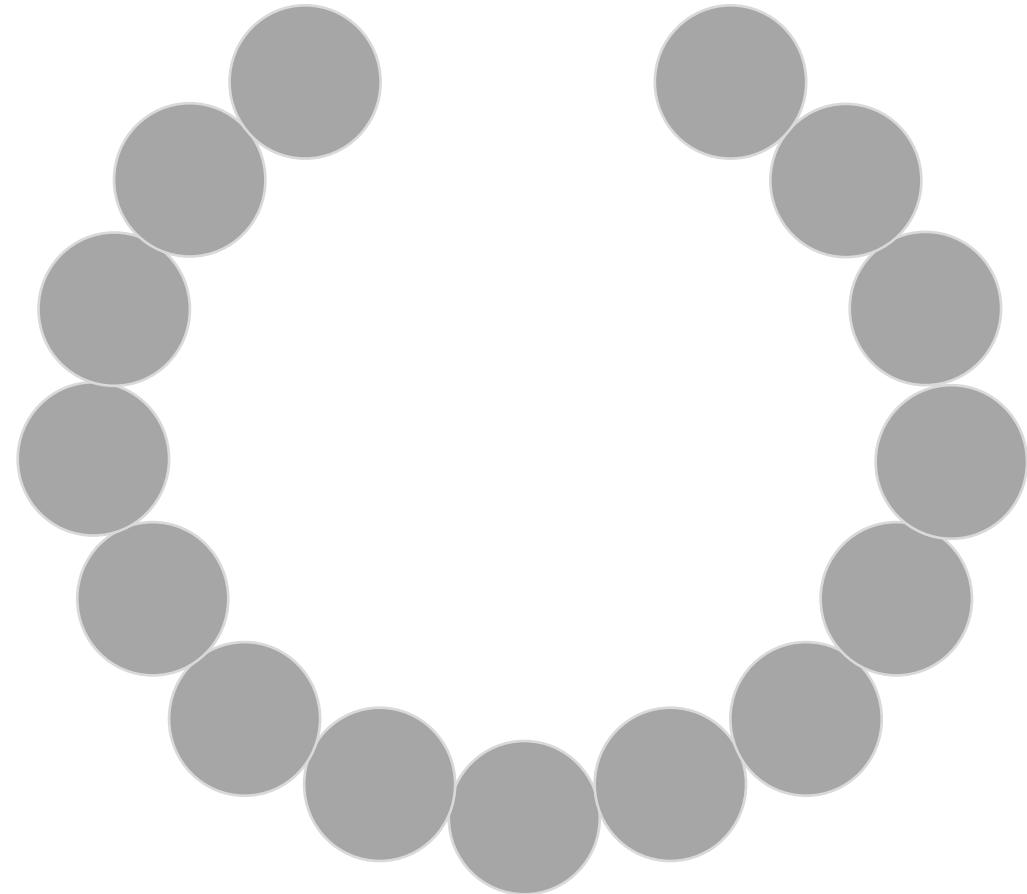
Enclosure



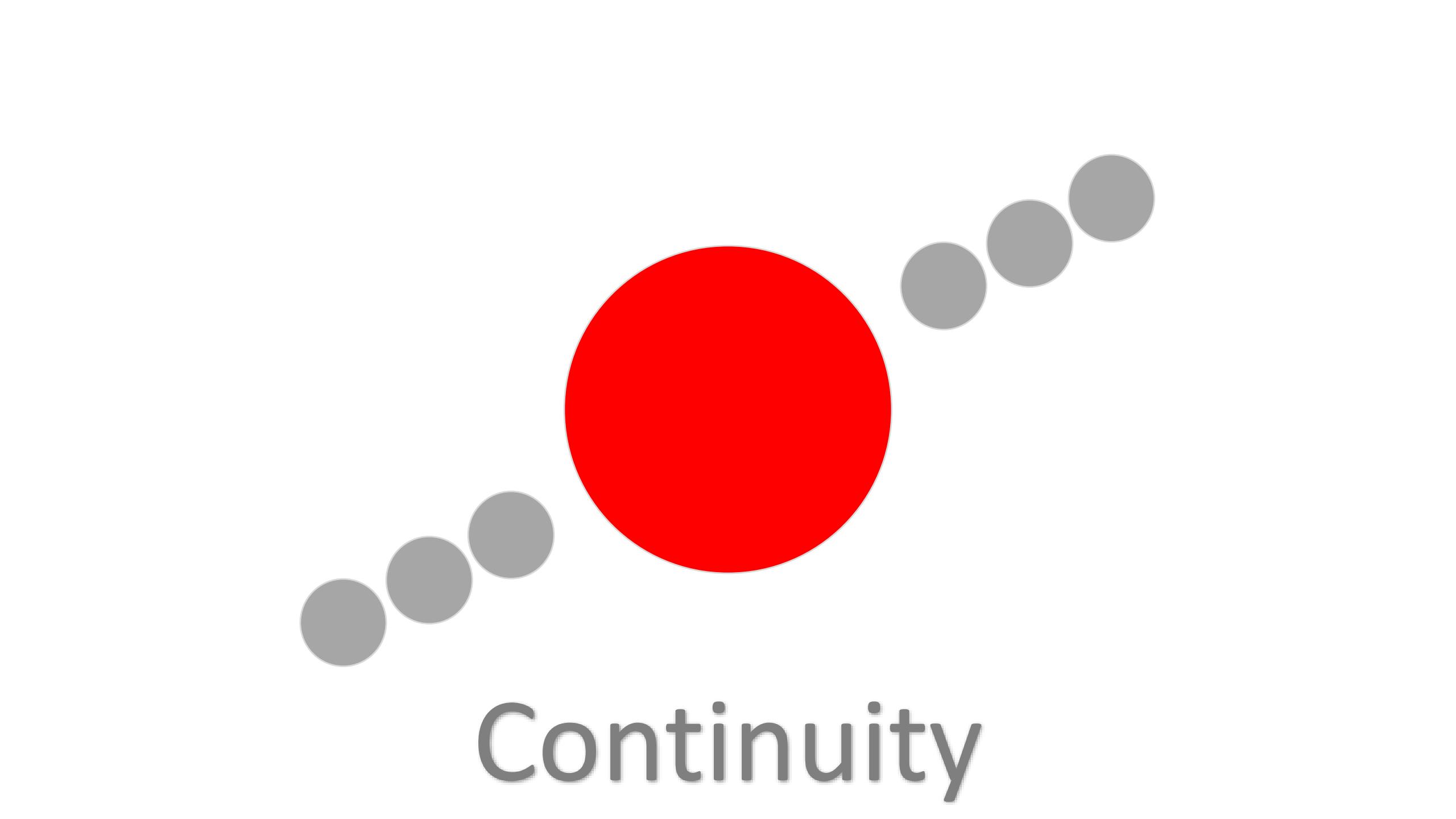
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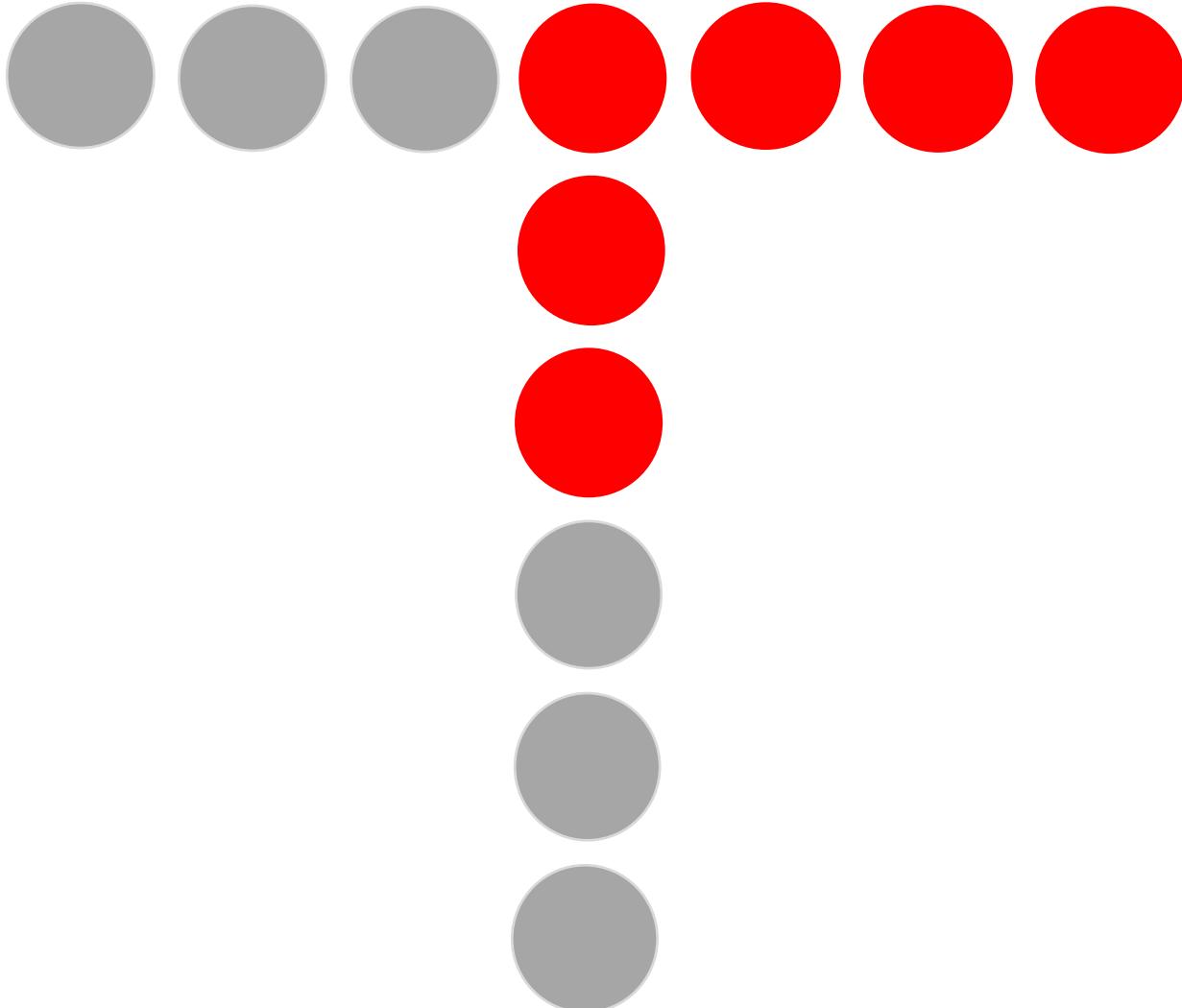
Closure



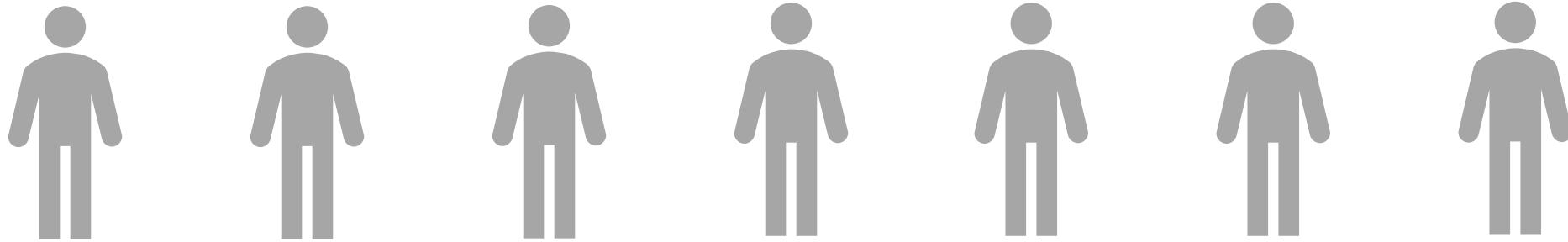
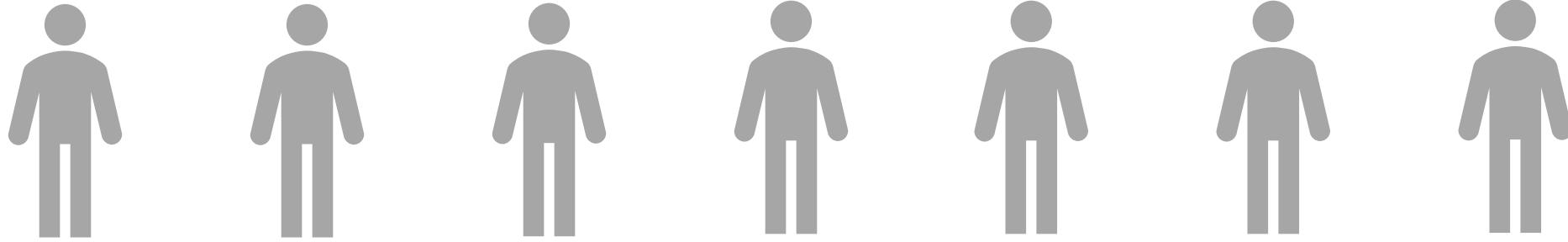
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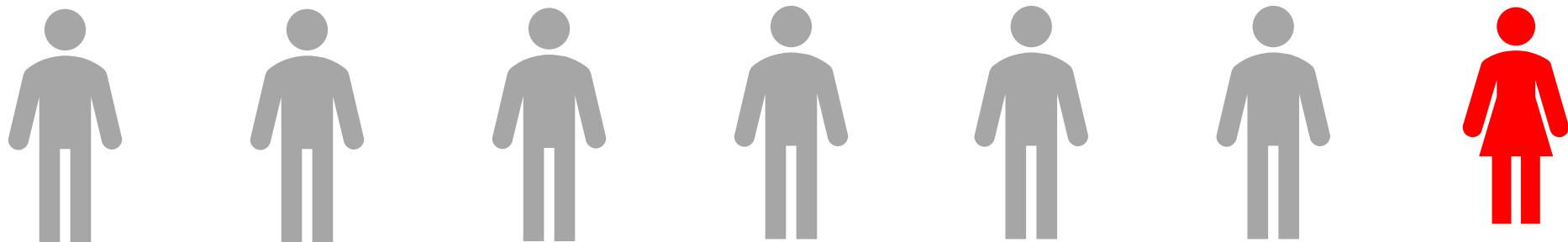
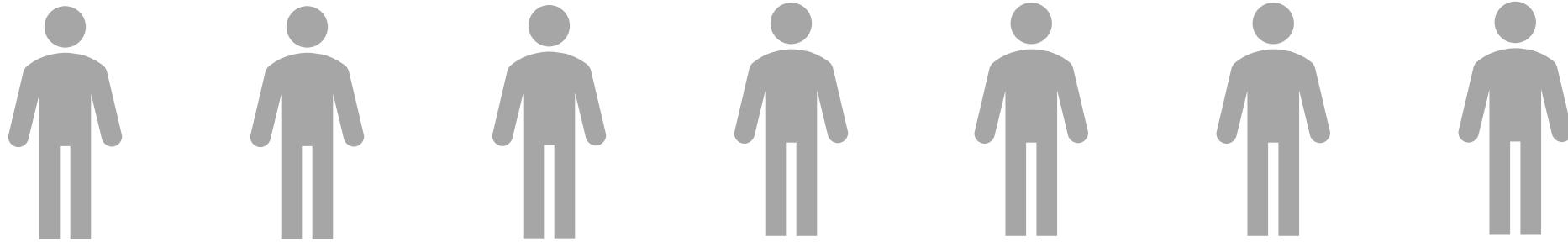
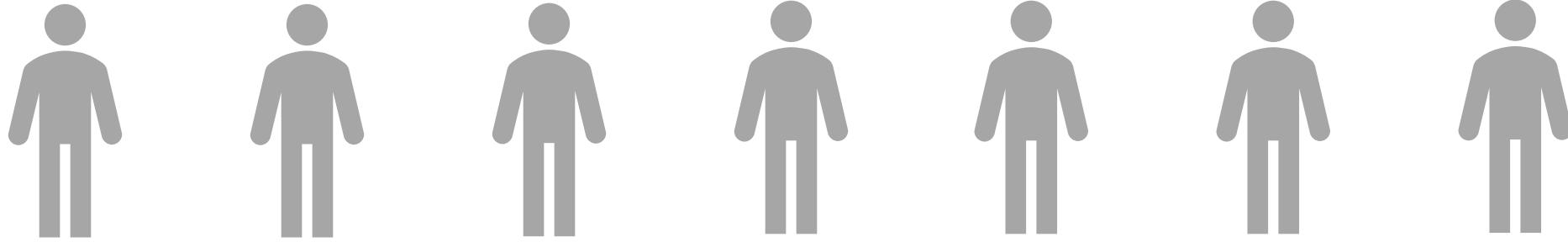
Continuity



Continuity



Similarity



Anomaly



BlahBlahBlah



Closure



Closure



Continuation



Continuation

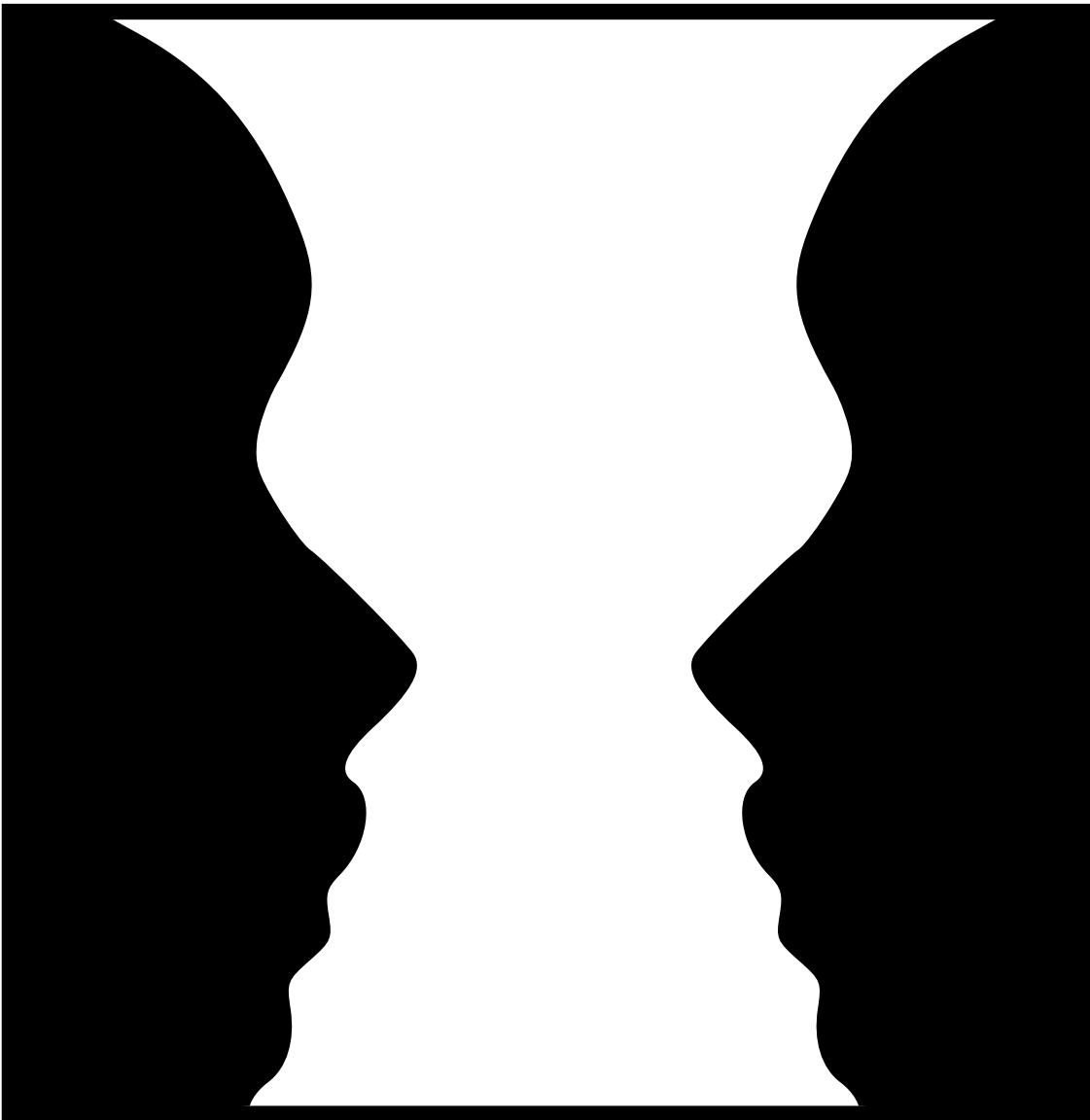
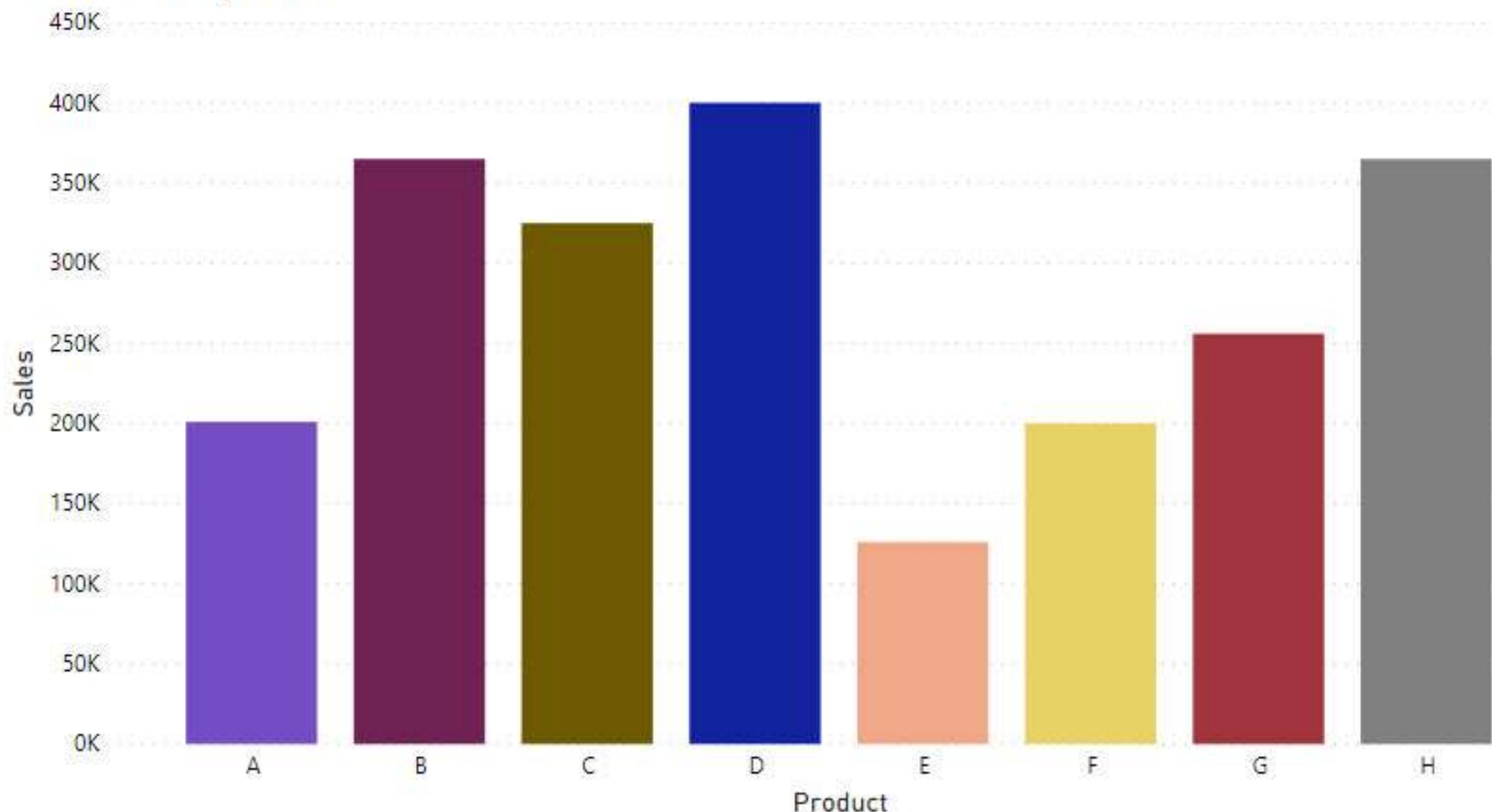


Figure and ground

By Bryan Derksen - Original image Cup or faces paradox.jpg uploaded by Guam on 28 July 2005, SVG conversion by Bryan Derksen, CC BY-SA 3.0, <https://commons.wikimedia.org/w/index.php?curid=1733355>

Sum of Sales by Product



Sum of Sales by Product

450K

400K

350K

300K

250K

200K

150K

100K

50K

0K

Sales



D

B

H

C

G

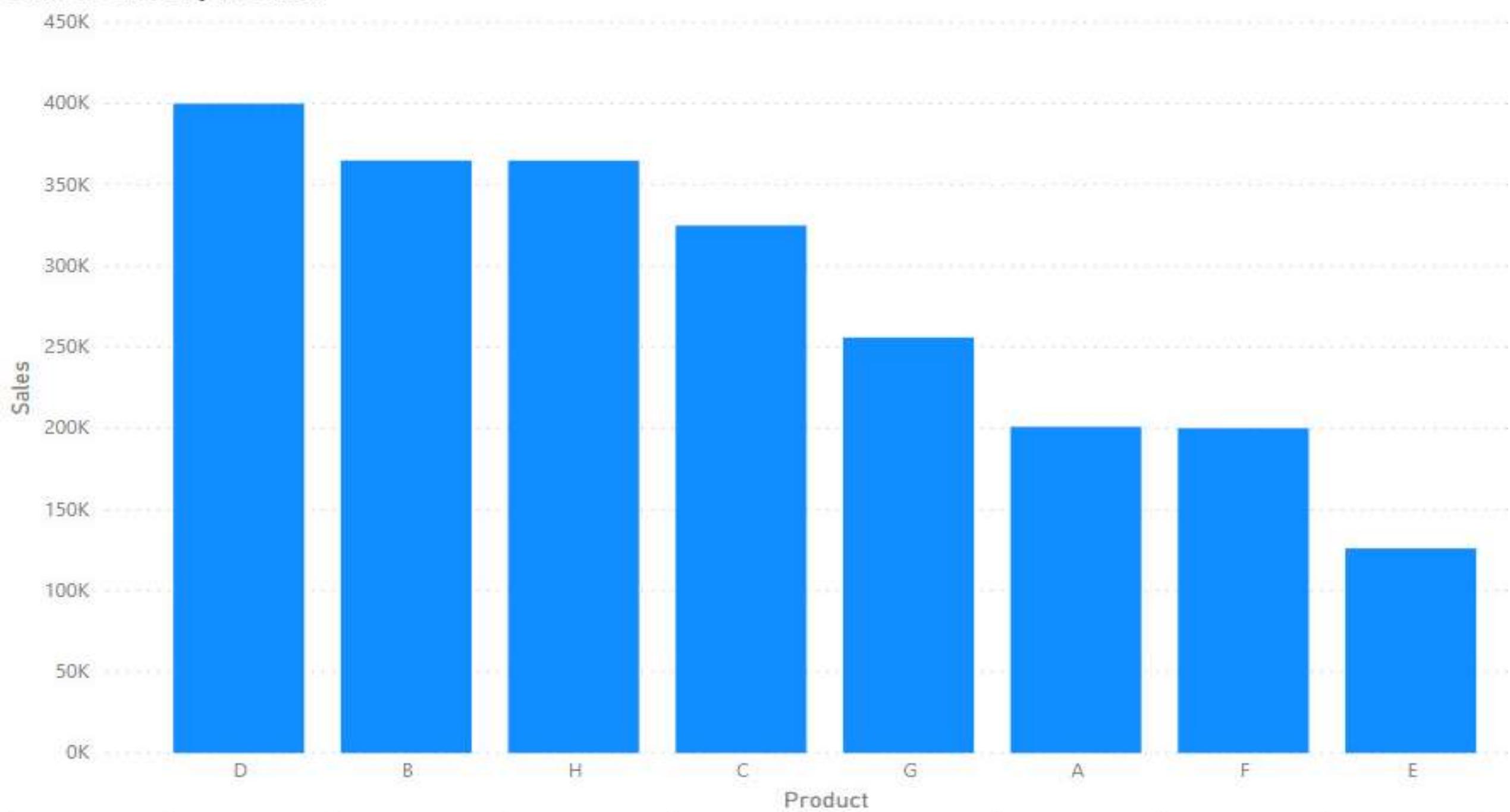
A

F

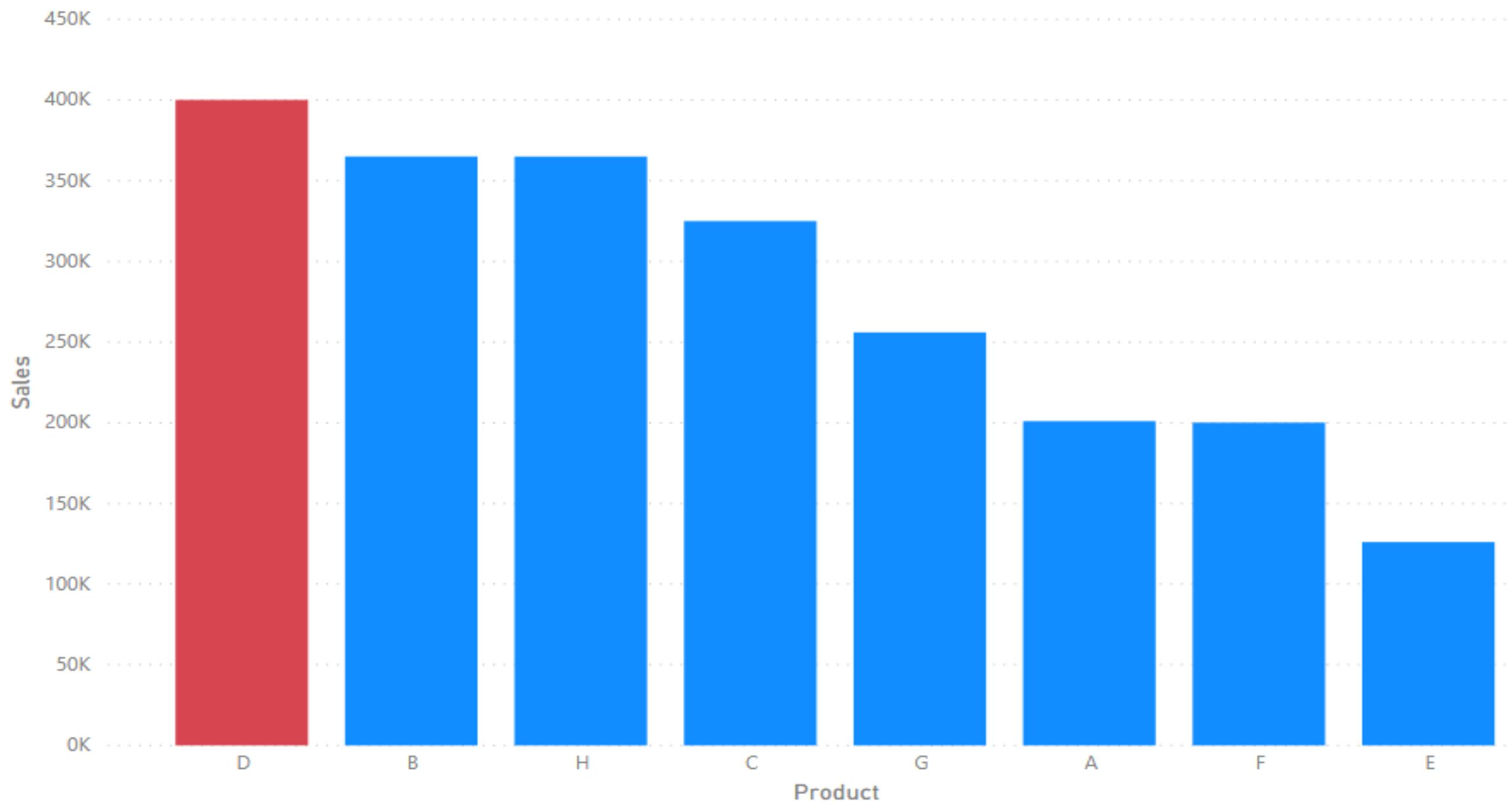
E

Product

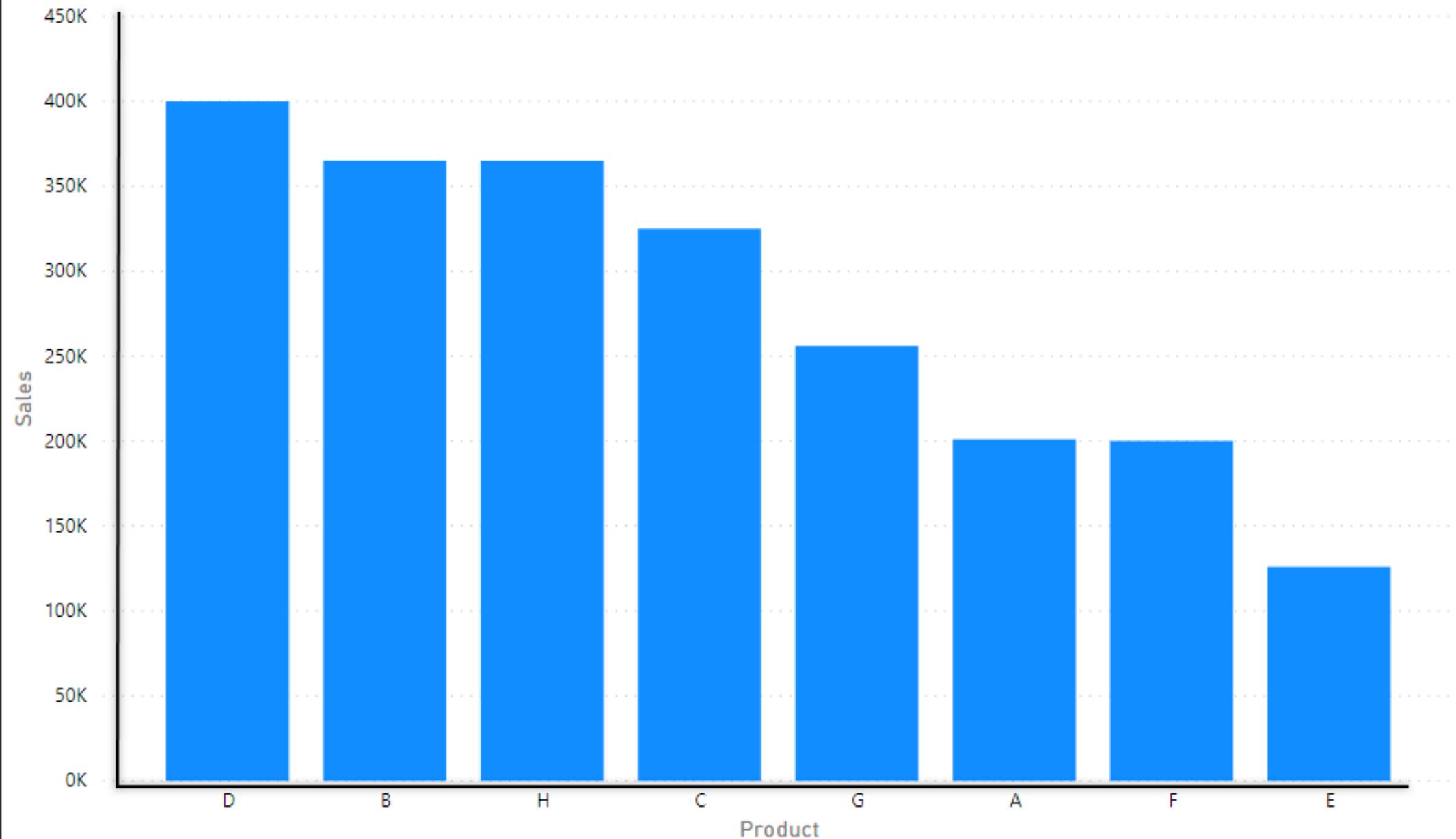
Sum of Sales by Product



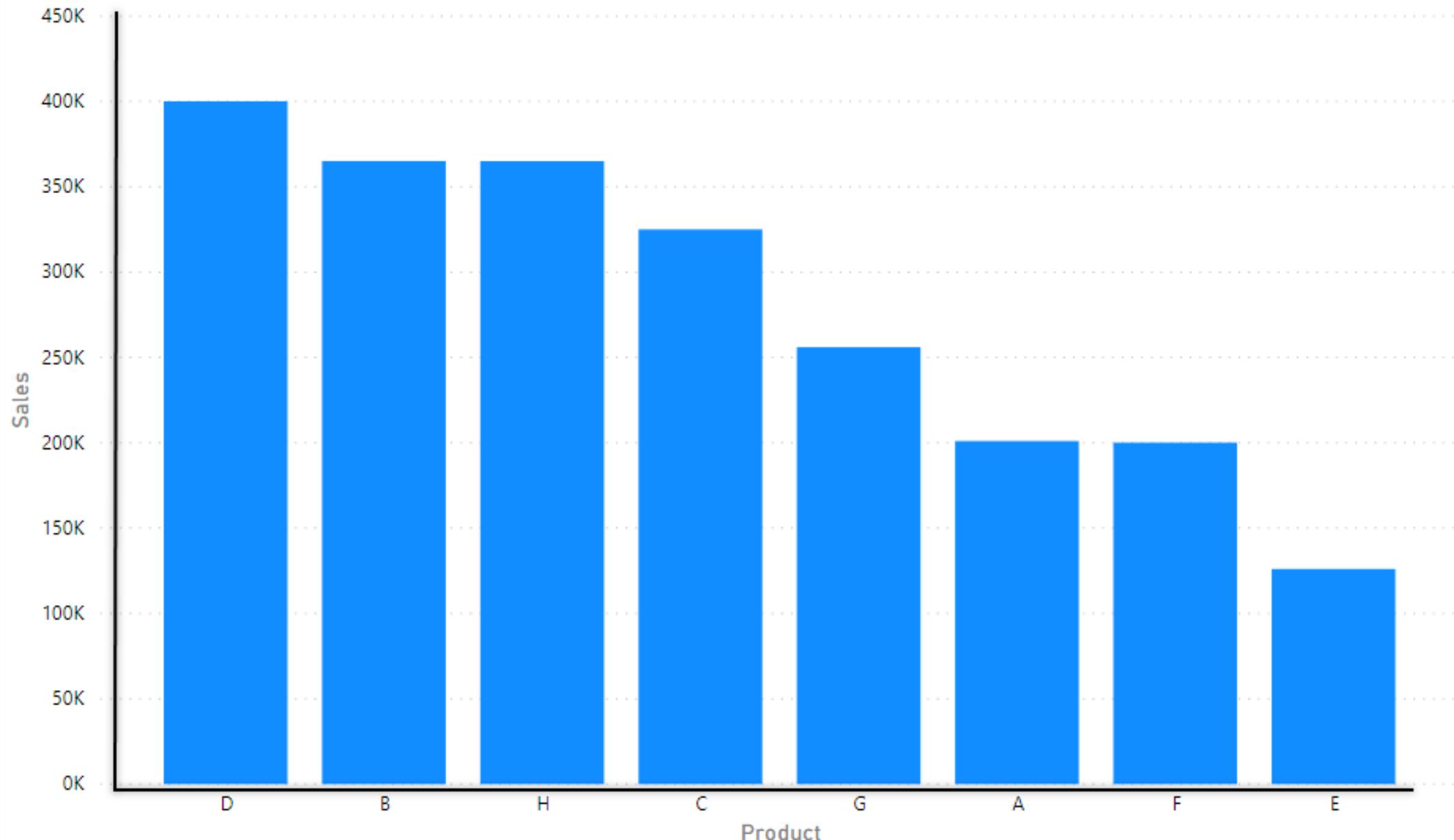
Sum of Sales by Product



Sum of Sales by Product

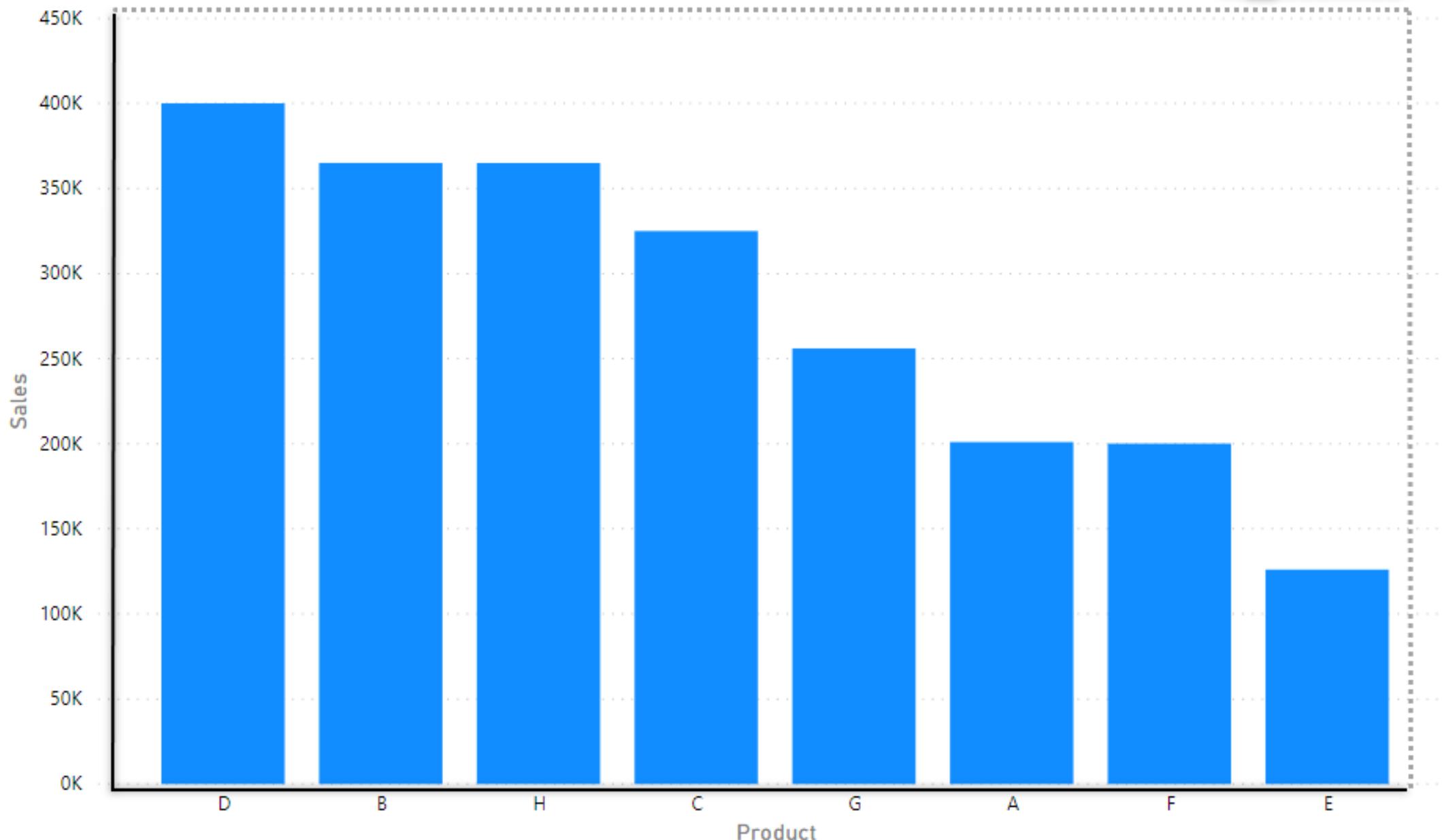


Sum of Sales by Product

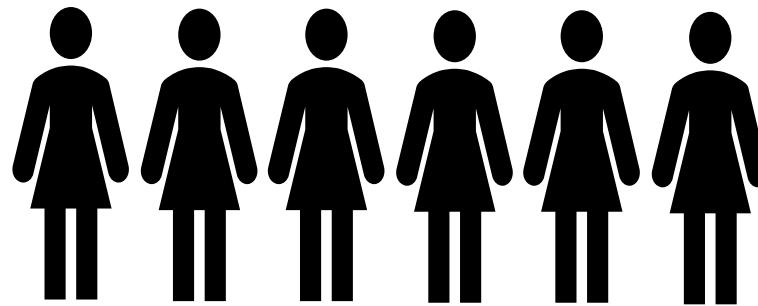
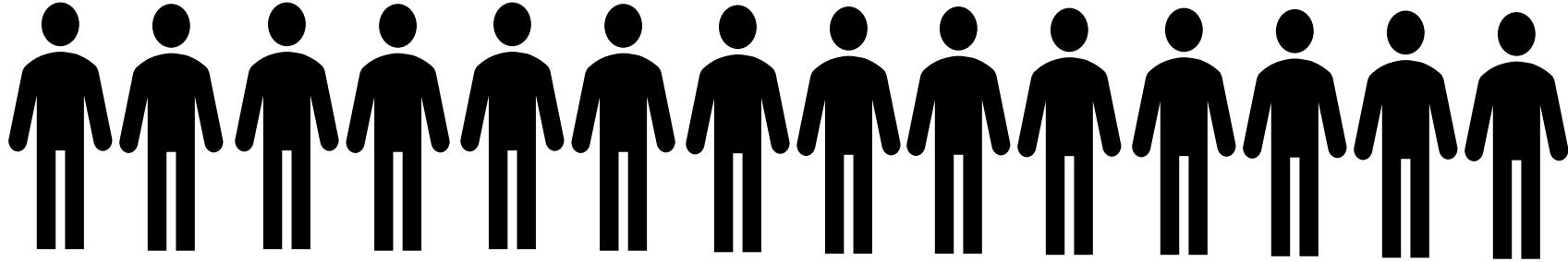


Sum of Sales by Product

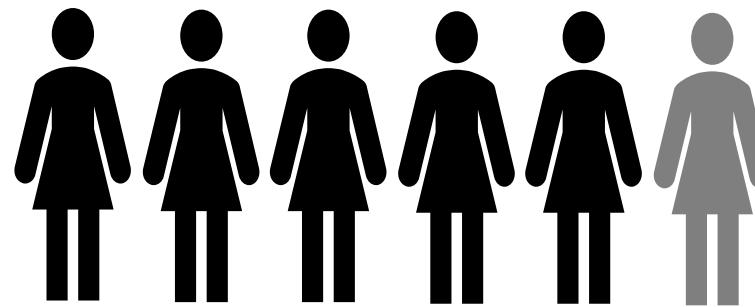
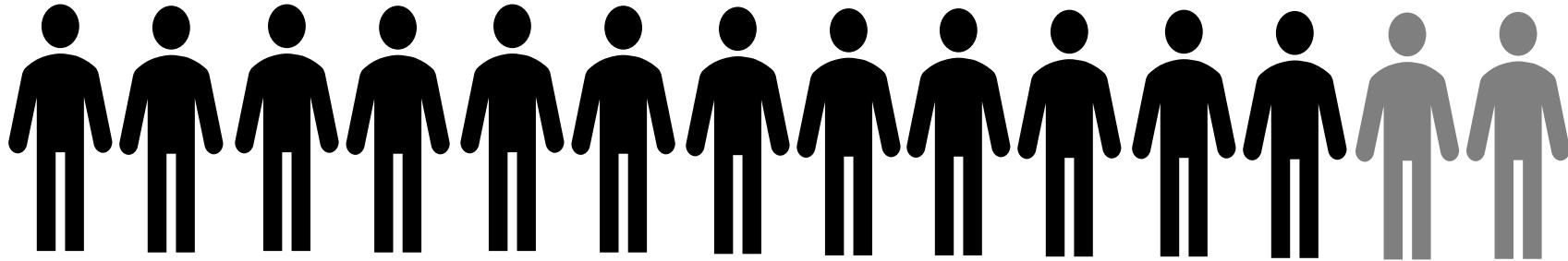
Suggested border



Number of male vs female employees



Employees born in UK vs born elsewhere





WEATHER

Enter a town, city or UK postcode



G43

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Today



10°

7°

Heavy rain and a
fresh breeze

9°

3°



9°

0°



10°

0°



9°

1°



8°

6°



11°

7°



11°

6°



12°

1°

1700

1800

1900

2000

2100

2200

2300

0000
Wed

0100

0200

0300

0400

0500



10°



10°



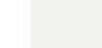
9°



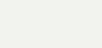
9°



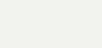
9°



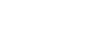
8°



8°



8°



7°



10°



10°



9°



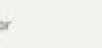
9°



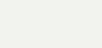
9°



8°



8°



8°



87%



79%



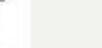
74%



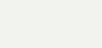
75%



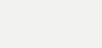
74%



69%



68%



70%



74%



76%



76%



76%



76%



79%

Last updated today at 16:02



Pollen



UV



Pollution



Sunrise 06:39 Sunset 20:03

Weather key ▾

Bridgend 10

Stirling 9

Dunfermline 7

Edinburgh 10

Dunbar 8

16:00 Tuesday



Tue

G43 10

Short forecast

Long forecast

Pressure

Galashiels 10



Full screen



EXPLORE ➤

WEATHER



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Today

10°
7°Heavy rain and a
fresh breeze

1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300	0400	0500
10°	10°	10°	9°	9°	9°	9°	8°	8°	8°	7°	7°	7°
87%	79%	74%	74%	75%	74%	69%	64%	64%	70%	74%	76%	79%
19°	19°	19°	18°	19°	18°	18°	18°	18°	18°	18°	18°	18°

[See more weather for
Wednesday 6th >](#)**Proximity
Symmetry**

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Pollen



UV



Pollution



Sunrise 06:39 Sunset 20:03

WEATHER



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Today

10°
7°Heavy rain and a
fresh breeze

Wed 6th	9° 3°	Thu 7th	9° 0°	Fri 8th	10° 0°	Sat 9th	9° 1°	Sun 10th	8° 6°	Mon 11th	11° 7°	Tue 12th	11° 6°	Wed 13th	12° 7°
---------	----------	---------	----------	---------	-----------	---------	----------	----------	----------	----------	-----------	----------	-----------	----------	-----------

1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300	0400	0500		
Wed	10°	10°	10°	9°	9°	9°	9°	8°	8°	8°	7°	7°	7°	
	87%	79%	74%	74%	75%	74%	69%	64%	64%	70%	74%	76%	79%	
	19°↗	19°↗	19°↗	18°↗	19°↗	18°↗	18°↗	18°↗	18°↗	18°↗	18°↗	18°↗	18°↗	18°↗

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Wednesday 6th >](#)**Enclosure
Similarity**

Last updated today at 16:02



Pollen



UV



Pollution



Sunrise 06:39 Sunset 20:03

WEATHER



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Today



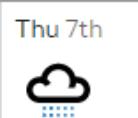
10°

7°

Heavy rain and a
fresh breeze

9°

3°



9°

0°



10°

0°



9°

1°



8°

6°



11°

7°



11°

6°



12°

7°

1700 1800 1900 2000 2100 2200 2300 0000 Wed 0100 0200 0300 0400 0500

10° 10° 10° 9° 9° 9° 9° 8° 8° 8° 7° 7° 7°

87% 79% 74% 74% 75% 74% 69% 64% 64% 70% 74% 76% 79%

19 19 19 18 19 18 18 18 18 18 18 18 18

See more weather for
Wednesday 6th >

Continuity

Last updated today at 16:02

WEATHER



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Today

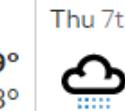


10°

7°

Heavy rain and a
fresh breeze

Wed 6th

9°
3°

Thu 7th

9°
0°

Fri 8th

10°
0°

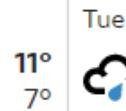
Sat 9th

9°
1°

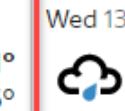
Sun 10th

8°
6°

Mon 11th

11°
7°

Tue 12th

11°
6°

Wed 13th

12°
12°

1700 1800 1900 2000 2100 2200 2300 0000 0100 0200 0300 0400 0500

10° 10° 10°
9° 9° 9° 9°

8° 8° 8°

7° 7° 7°

See more weather for
Wednesday 6th >

Similarity

87% 79% 74% 74% 75% 74% 69% 64% 64% 70% 74% 76% 79%

19 19 19 18 19 18 18 18 18 18 18 18 18

Last updated today at 16:02



Pollen



UV



Pollution



Sunrise 06:39 Sunset 20:03

WEATHER



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Today



10°

7°

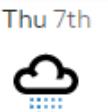
Heavy rain and a
fresh breeze



Wed 6th

9°

3°



Thu 7th

9°

0°



Fri 8th

10°

0°



Sat 9th

9°

1°



Sun 10th

8°

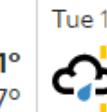
6°



Mon 11th

11°

7°



Tue 12th

11°

6°



Wed 13th

12°

1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300	0400	0500
10°	10°	10°	9°	9°	9°	9°	8°	8°	8°	7°	7°	7°
87%	79%	74%	74%	75%	74%	69%	64%	64%	70%	74%	76%	79%
(19)	(19)	(19)	(18)	(19)	(18)	(18)	(18)	(18)	(18)	(18)	(18)	(18)

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Homework



<https://youtu.be/hVimVzgtD6w>