

Make Your Data Visual

Data Visualisation Webinar

Wednesday 15 July, 1.00pm



Hello

KEY AREAS: Audience

KEY AREAS: Audience
Charts

KEY AREAS: Audience
Charts
Eliminating irrelevance

KEY AREAS:

Audience

Charts

Eliminating irrelevance

Focus on key elements

ONE:

Audience

Messages

Mom

Edit

Call

FaceTime

Contact >

"What does IDK, LY & TTYL mean?"

I don't know, love you, talk to you later.

OK, I will ask your sister.

AUDIENCE: Data Visualisation is about audience.

AUDIENCE: Data Visualisation is about audience.

Identify their needs and how they
make sense of the data.



Baile Sheáin
JOHNSTOWN
R639

(M 8)

Ath Cliath
DUBLIN

Corcaigh
CORK

Durlas
THURLES **(N75)**

R693
Cill Chainnigh
KILKENNY

Achadh Úr
FRESHFORD

SOURCE:
www.wikipedia.org

AUDIENCE: Colours in Culture

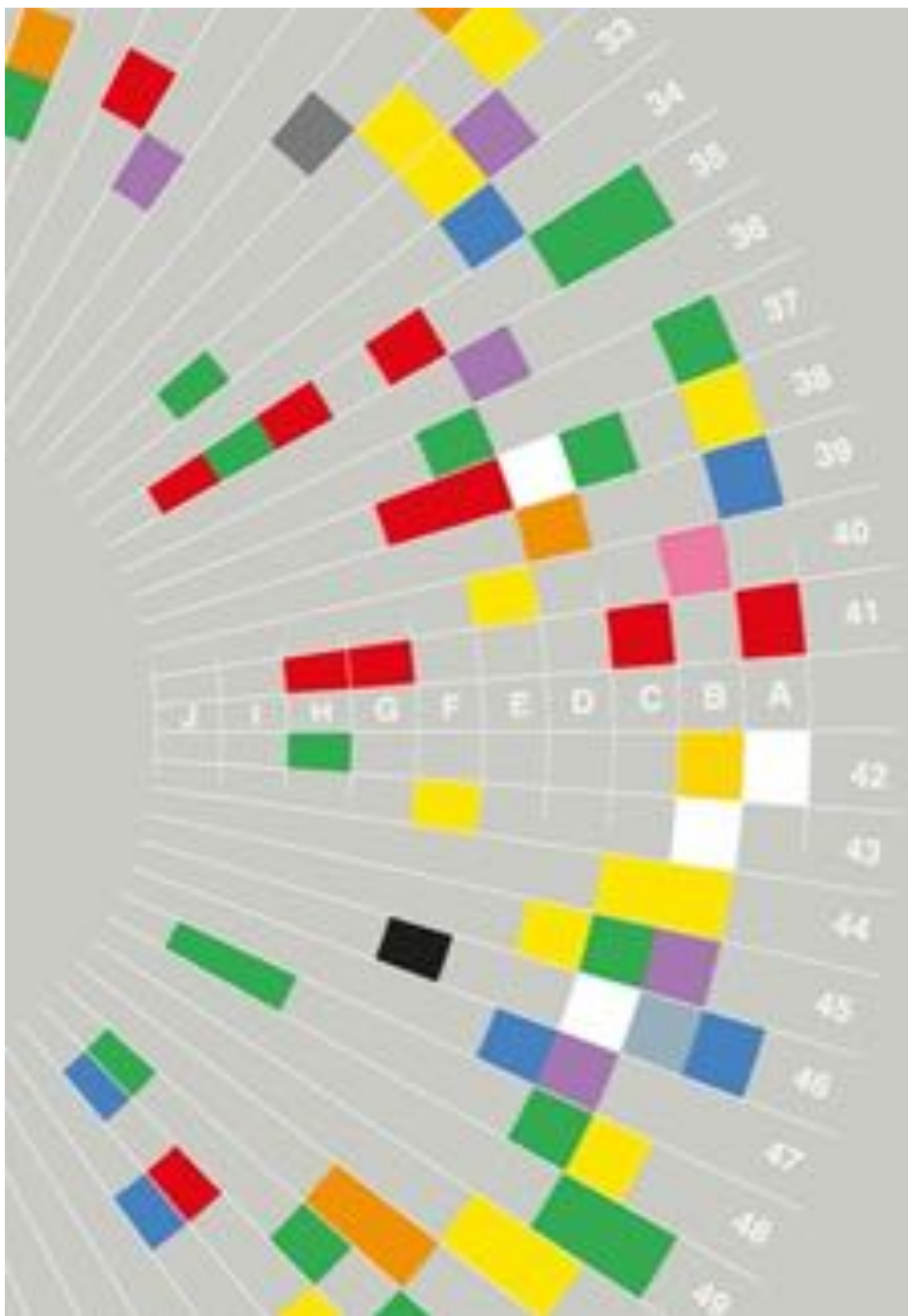
Colours In Culture



- | | | |
|----------------------|---------------------|------------|
| A Western / American | 1: Anger | 33: Deceit |
| B: Japanese | 2: Art / Creativity | 34: Family |
| C: Hindu | 3: Authority | 35: Family |
| D: Native American | 4: Bad Luck | 36: Family |
| E: Chinese | 5: Balance | 37: Family |
| F: Arab | 6: Beauty | 38: Family |
| G: Eastern-European | 7: Calm | 39: Family |
| H: Arab | 8: Celebration | 40: Family |
| I: Muslim | 9: Calm | 41: Family |
| J: South American | 10: Cold | 42: Family |
| | 11: Compassion | 43: Family |
| | 12: Courage | 44: Family |
| | 13: Creativity | 45: Family |
| | 14: Death | 46: Family |
| | 15: Danger | 47: Family |
| | 16: Death | 48: Family |
| | 17: Disapproval | 49: Family |
| | 18: Dislike | 50: Family |
| | | 51: Family |
| | | 52: Family |
| | | 53: Family |
| | | 54: Family |
| | | 55: Family |
| | | 56: Family |
| | | 57: Family |
| | | 58: Family |
| | | 59: Family |
| | | 60: Family |
| | | 61: Family |
| | | 62: Family |
| | | 63: Family |
| | | 64: Family |

Yellow
 Black
 Orange
 Blue

SOURCE:
www.informationisbeautiful.net



- A Western / American
 - B Japanese
 - C Hindu
 - D Native American
 - E Chinese
 - F Asian
 - G Eastern European
 - H Arab
 - I African
 - J South American
- 1 Anger
 - 2 Art / Creativity
 - 3 Authority
 - 4 Bad Luck
 - 5 Balance
 - 6 Beauty
 - 7 Calm
 - 8 Celebration
 - 9 Children
 - 10 Cold
 - 11 Compassion
 - 12 Courage
 - 13 Cowardice
 - 14 Cruelty
 - 15 Danger
 - 16 Death
 - 17 Decadence
 - 18 Deceit
 - 19 Desire
 - 20 Earthy
 - 21 Energy
 - 22 Erotic
 - 23 Eternity
 - 24 Evil
 - 25 Excitement
 - 26 Family
 - 27 Femininity
 - 28 Fertility
 - 29 Flamboyance
 - 30 Freedom
 - 31 Friendly
 - 32 Fun
 - 33 God
 - 34 Gods
 - 35 Good Luck
 - 36 Gratitude

- 37 Growth
- 38 Happiness
- 39 Healing
- 40 Healthy
- 41 Heat
- 42 Heaven
- 43 Holiness
- 44 Illness
- 45 Insight
- 46 Intelligence
- 47 Intuition
- 48 Religion
- 49 Jealousy
- 55 Luxury
- 56 Marriage
- 57 Modesty
- 58 Money
- 59 Mourning
- 60 Mystery
- 61 Nature
- 62 Passion
- 63 Peace
- 64 Penance
- 65 Power
- 66 Personal power
- 67 Purity
- 73 Royalty
- 74 Self-cultivation
- 75 Strength
- 76 Style
- 77 Success
- 78 Trouble
- 79 Truce
- 80 Trust
- 81 Unhappiness
- 82 Virtus
- 83 Warmth
- 84 Wisdom

SOURCE:
www.informationisbeautiful.net

Colours In Culture



- | | | |
|----------------------|--------------------|-------------------|
| A Western / American | 5 Angel | 33 Devote |
| B Japanese | 6 Art / Creativity | 34 Family |
| C Hindu | 7 Authority | 35 Energy |
| D Native American | 8 Bad Luck | 36 Faith |
| E Chinese | 9 Balance | 37 Family |
| F Asian | 10 Beauty | 38 Fun |
| G Eastern-European | 11 Calm | 39 Fulfillment |
| H Arab | 12 Celebration | 40 Family |
| I Muslim | 13 Calm | 41 Family |
| J South American | 14 Calm | 42 Family |
| | 15 Celebration | 43 Friendship |
| | 16 Courage | 44 Friendship |
| | 17 Courageous | 45 Fun |
| | 18 Creativity | 46 God |
| | 19 Danger | 47 Good |
| | 20 Death | 48 Good Luck |
| | 21 Determination | 49 Good Luck |
| | 22 Determination | 50 Good Luck |
| | 23 Growth | 51 Growth |
| | 24 Happiness | 52 Happiness |
| | 25 Healing | 53 Healing |
| | 26 Healthy | 54 Healthy |
| | 27 Heat | 55 Heat |
| | 28 Heaven | 56 Heaven |
| | 29 Hell | 57 Hell |
| | 30 Intelligence | 58 Intelligence |
| | 31 Intuition | 59 Intuition |
| | 32 Inspiration | 60 Inspiration |
| | 33 Joy | 61 Joy |
| | 34 Learning | 62 Learning |
| | 35 Life | 63 Life |
| | 36 Love | 64 Love |
| | 37 Loyalty | 65 Loyalty |
| | 38 Marriage | 66 Marriage |
| | 39 Memory | 67 Memory |
| | 40 Money | 68 Money |
| | 41 Mourning | 69 Mourning |
| | 42 Mystery | 70 Mystery |
| | 43 Nature | 71 Nature |
| | 44 Heaven | 72 Heaven |
| | 45 Peace | 73 Peace |
| | 46 Paradise | 74 Paradise |
| | 47 Power | 75 Power |
| | 48 Personal power | 76 Personal power |
| | 49 Pure | 77 Pure |
| | 50 Redemption | 78 Redemption |
| | 51 Resurrection | 79 Resurrection |
| | 52 Resurrection | 80 Resurrection |
| | 53 Resurrection | 81 Resurrection |
| | 54 Resurrection | 82 Resurrection |
| | 55 Resurrection | 83 Resurrection |
| | 56 Resurrection | 84 Resurrection |
| | 57 Resurrection | 85 Resurrection |
| | 58 Resurrection | 86 Resurrection |
| | 59 Resurrection | 87 Resurrection |
| | 60 Resurrection | 88 Resurrection |
| | 61 Resurrection | 89 Resurrection |
| | 62 Resurrection | 90 Resurrection |
| | 63 Resurrection | 91 Resurrection |
| | 64 Resurrection | 92 Resurrection |
| | 65 Resurrection | 93 Resurrection |
| | 66 Resurrection | 94 Resurrection |
| | 67 Resurrection | 95 Resurrection |
| | 68 Resurrection | 96 Resurrection |
| | 69 Resurrection | 97 Resurrection |
| | 70 Resurrection | 98 Resurrection |
| | 71 Resurrection | 99 Resurrection |
| | 72 Resurrection | 100 Resurrection |

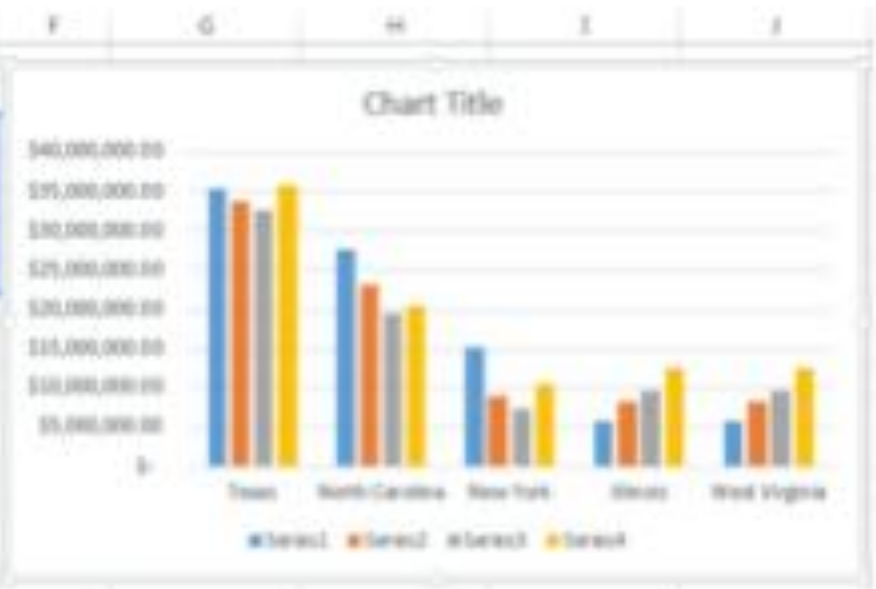
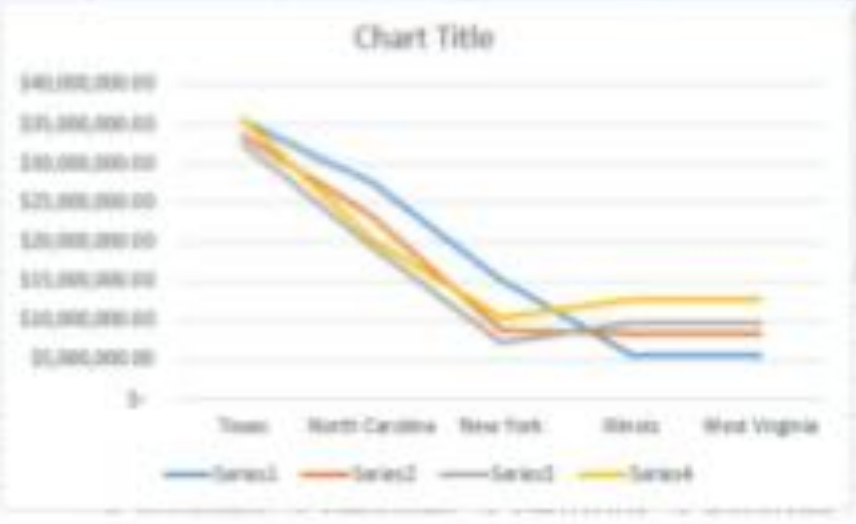


SOURCE:
www.informationisbeautiful.net

TWO:

Choose an effective chart

	A	B	C	D	E
1		Sales Data			
2	State	2011	2012	2013	2014
3	Texas	\$ 35,481,672.40	\$ 33,741,920.96	\$ 32,546,249.78	\$ 35,731,843.14
4	North Carolina	\$ 27,674,290.52	\$ 23,177,294.89	\$ 19,515,039.67	\$ 20,366,564.57
5	New York	\$ 15,157,128.02	\$ 8,925,318.23	\$ 7,323,069.89	\$ 10,405,515.64
6	Illinois	\$ 5,681,177.96	\$ 8,380,447.26	\$ 9,681,824.00	\$ 12,642,449.81
7	West Virginia	\$ 5,681,177.96	\$ 8,380,447.26	\$ 9,681,824.00	\$ 12,642,449.81
8	South Carolina				
9	California				
10	Alaska				
11	Florida				
12	Vermont				
13	Delaware				
14	Maryland				
15	Idaho				
16	Washington				
17	Georgia				
18	New Mexico				
19	Nebraska				
20	Connecticut				
21	Tennessee				
22	Kansas				



SOURCE:
Microsoft Excel

CHARTS:

What kind of information
are you working with?

CHARTS:

What kind of information
are you working with?

Start with bar chart or line graph to
get an understanding of the information.

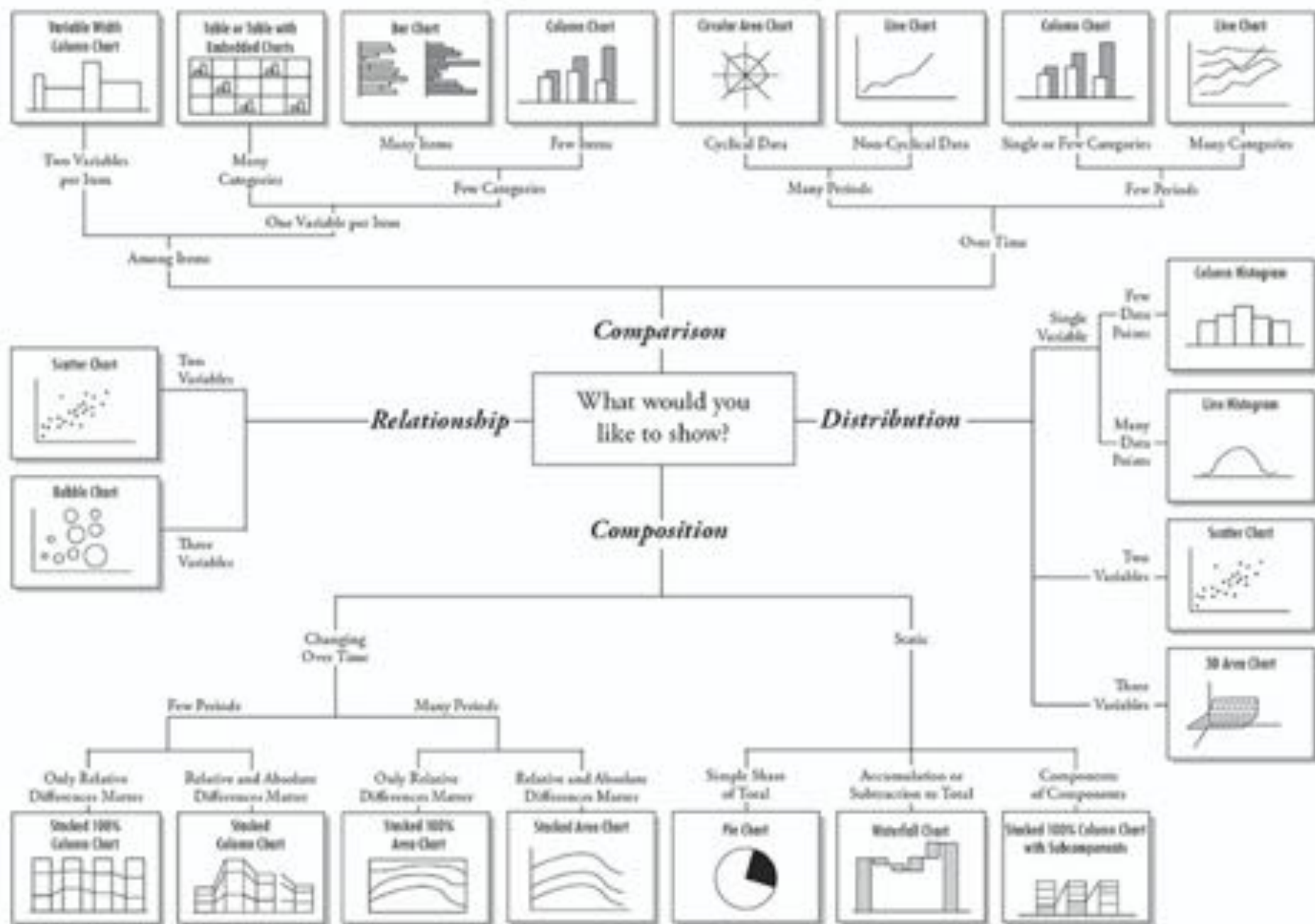
CHARTS:

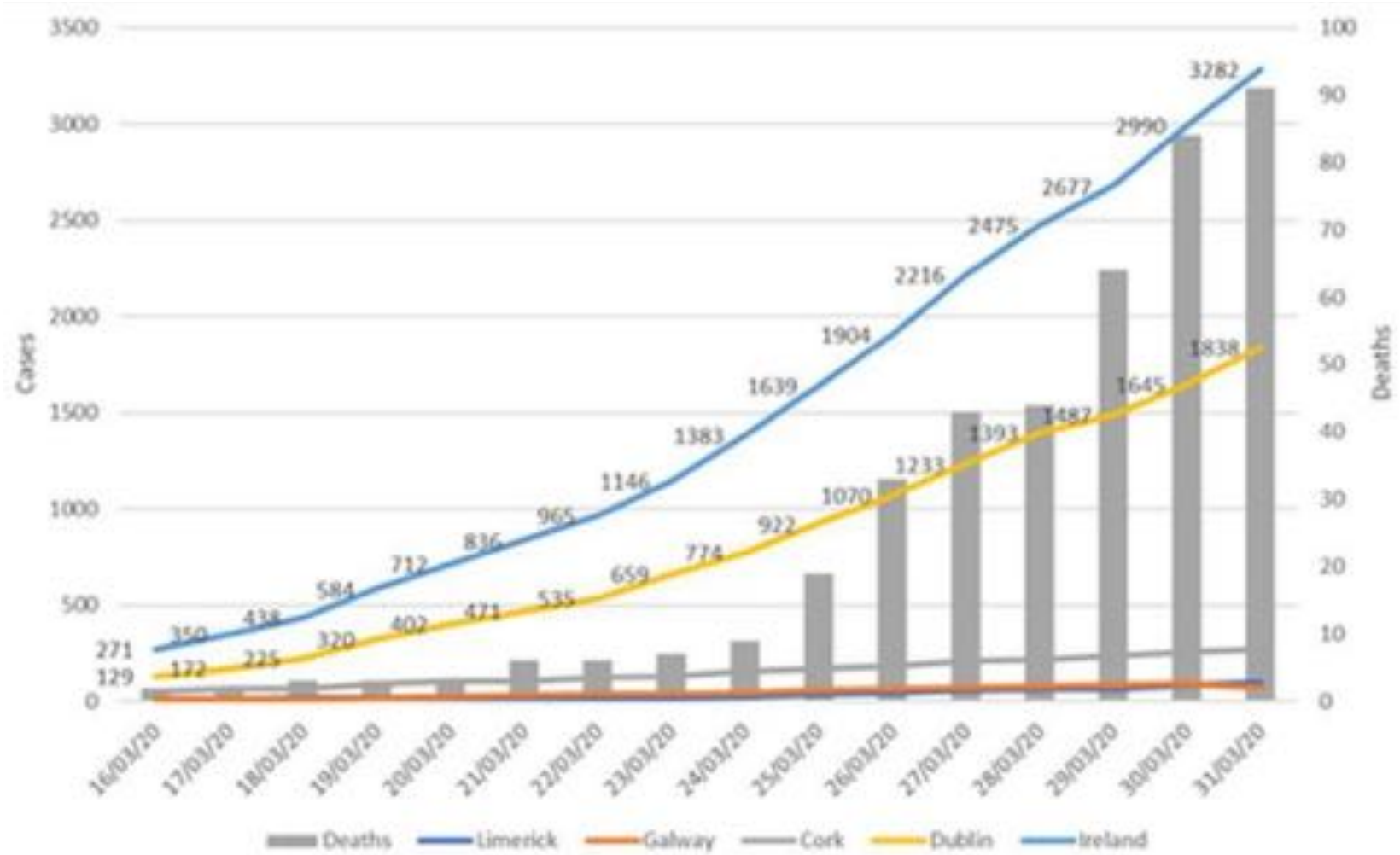
What kind of information are you working with?

Start with bar chart or line graph to get an understanding of the information

Research - how have others visualised similar information?

Chart Suggestions—A Thought-Starter





THREE:

Eliminating irrelevant elements

ELEMENTS: Keep things simple as it will make it easier to read details.

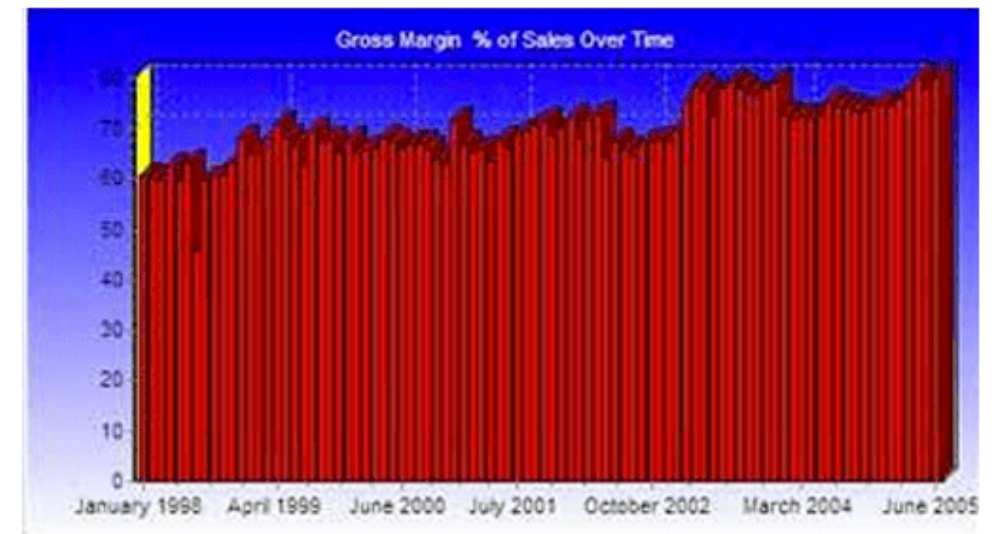
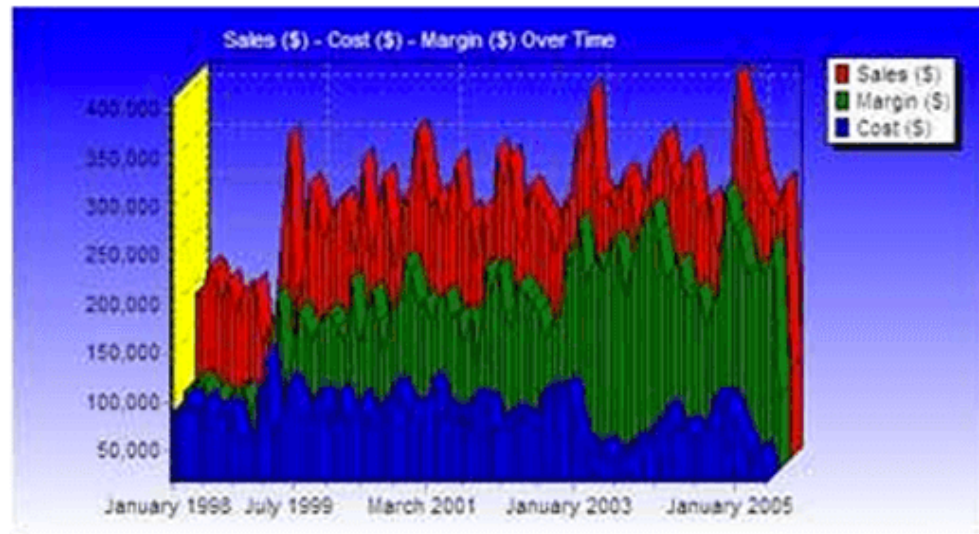
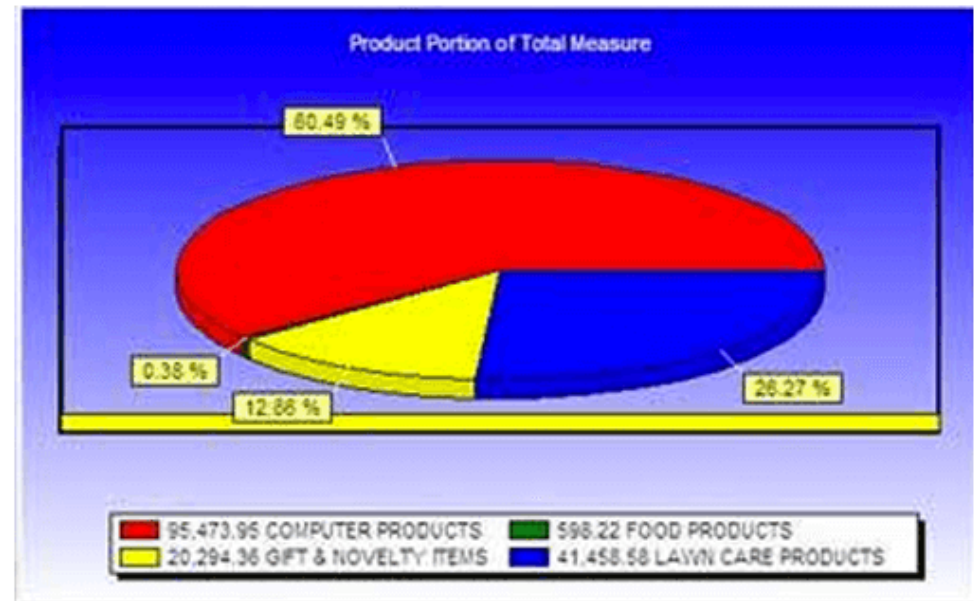
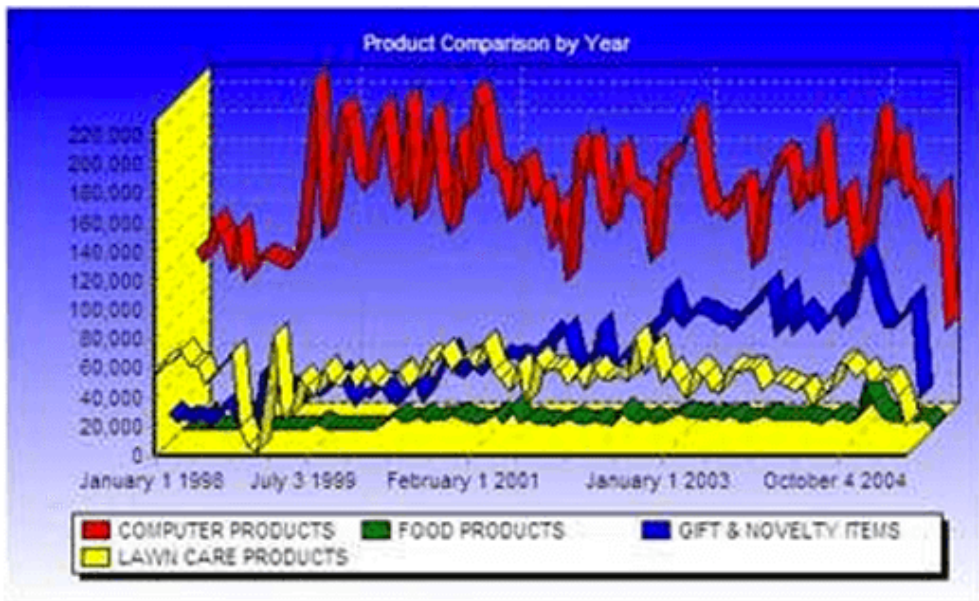
ELEMENTS: Keep things simple as it will make it easier to read details.

Remove all meaningless elements; unnecessary lines, distracting boxes, meaningless colour variations, distracting backgrounds.

ELEMENTS: Keep things simple as it will make it easier to read details.

Remove all meaningless elements; unnecessary lines, distracting boxes, meaningless colour variations, distracting backgrounds.

Make an accurate presentation of data.



SOURCE:
Fuzioncharts.com

AUTO-ENROLMENT AND UK WORKPLACE PENSIONS

Key facts

4,000,000+

More than four million people have now been automatically enrolled in workplace pensions – an increase of over one million this year or more than 5,000 a day on average

Source: Department for Work and Pensions

Auto-enrolment by numbers

36,823

employers confirmed they met their duties by completing their declaration of compliance during the required period

Source: The Pensions Regulator

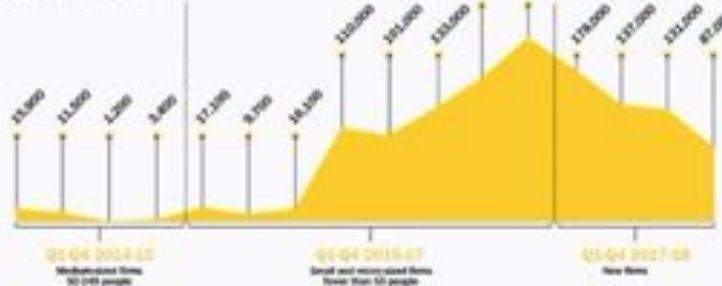


Proportion of employees with workplace pensions by occupation, 2013



Source: Annual Survey of Hours and Earnings

Staging volumes by year-quarter

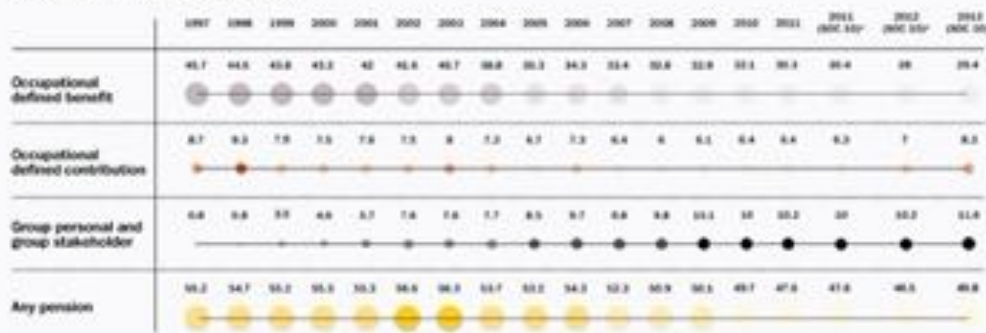


Percentage of employees with workplace pensions by type of scheme



Source: Annual Survey of Hours and Earnings

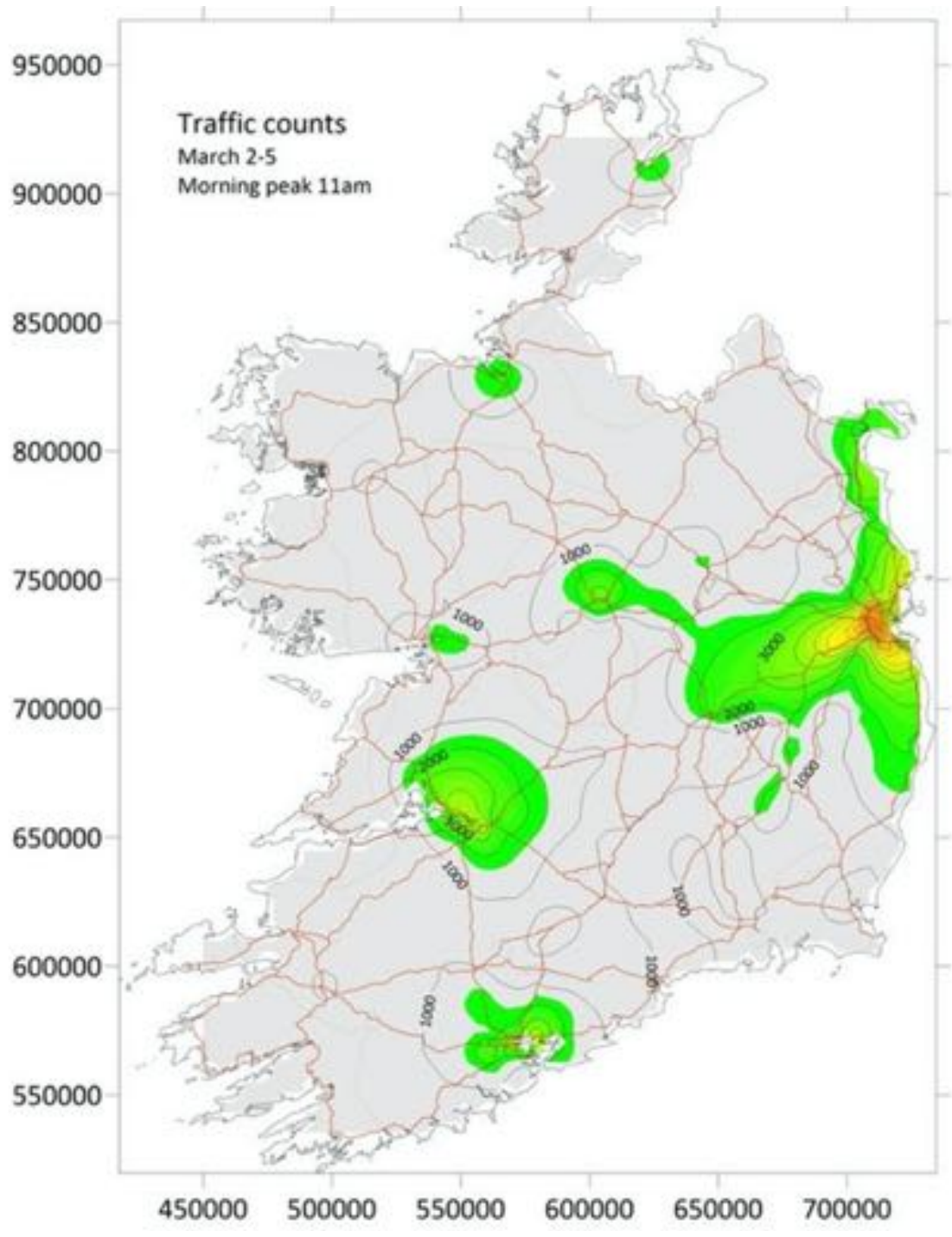
Proportion of employees with workplace pensions by type of pension, 1997-2013



Source: Health and Safety Executive, Workplace Pensions

*Updated Standard Occupational Classification 2020

SOURCE:
www.piktochart.com



FOUR:

Focus on key elements

FOCUS:

Clear organisation leads
to clear communication.

FOCUS:

Clear organisation leads
to clear communication.

When considering details and
supporting elements - **simplicity is key.**

FOCUS:

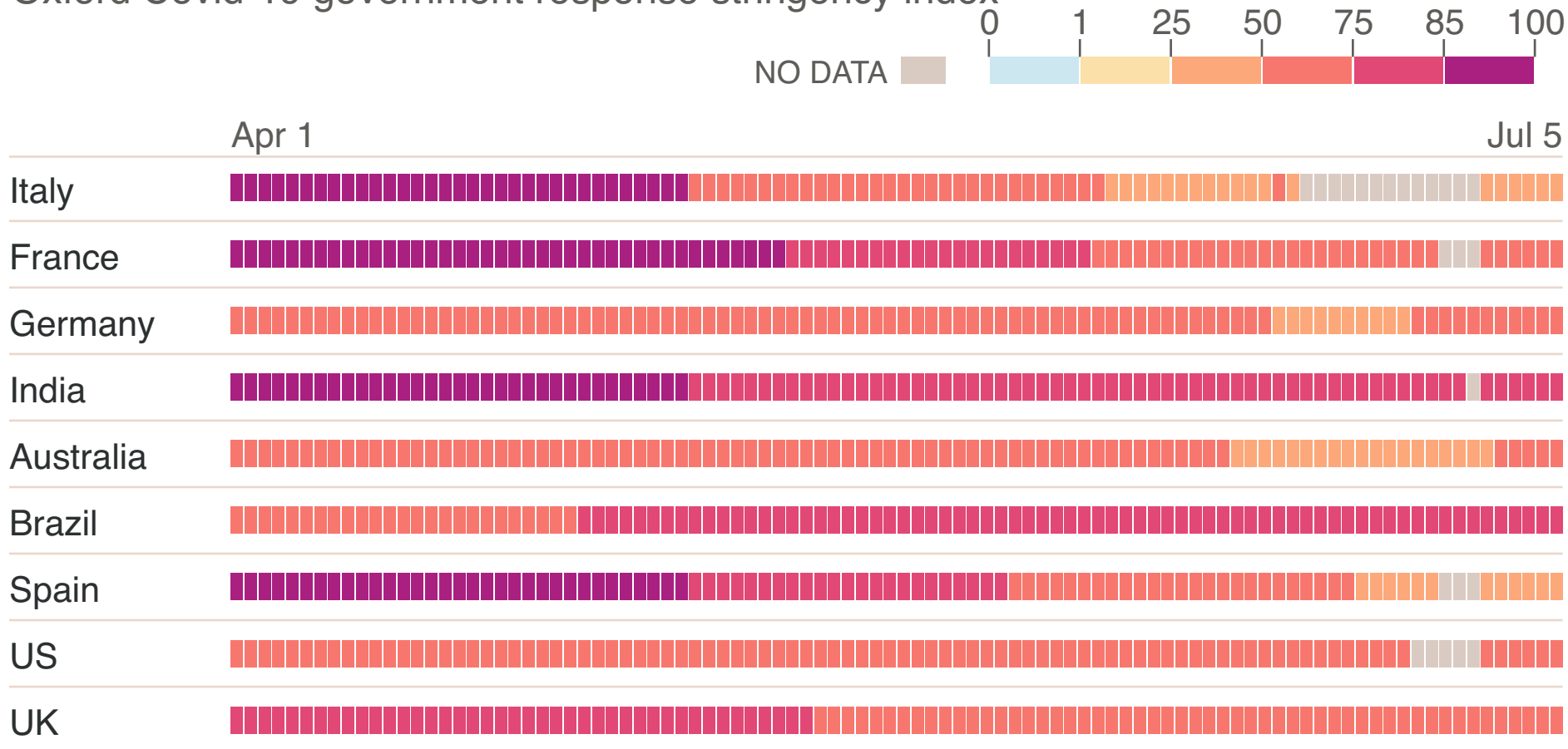
Clear organisation leads
to clear communication.

When considering details and
supporting elements - **simplicity is key.**

It's the data that people need to look at.

Global responses to the pandemic

Oxford Covid-19 government response stringency index



SOURCE:
Blavatnik School of Government,
University of Oxford

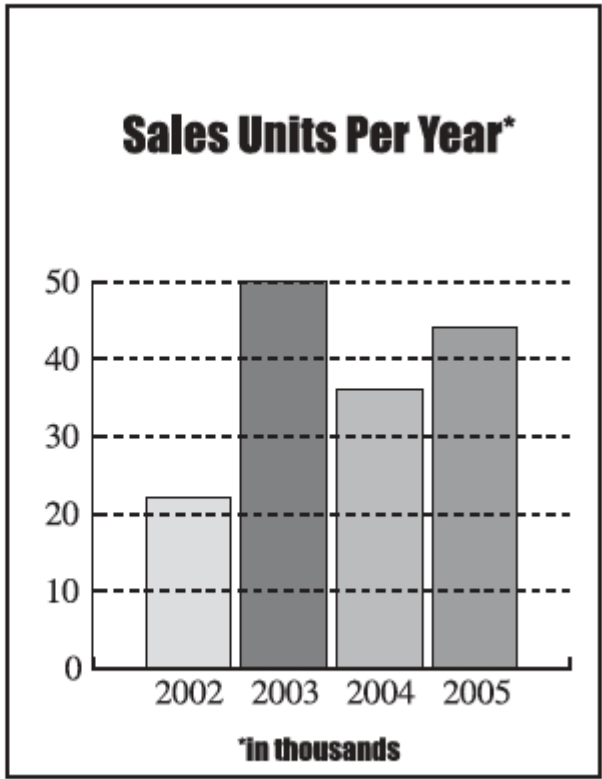
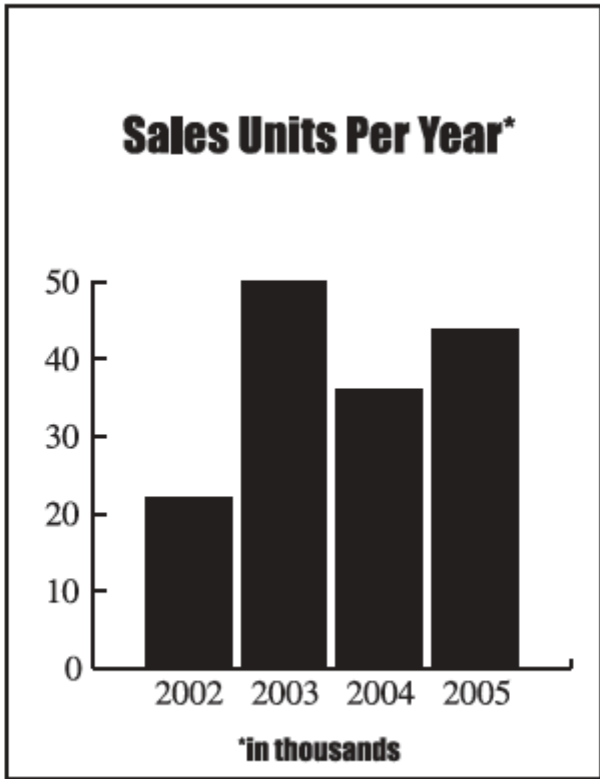
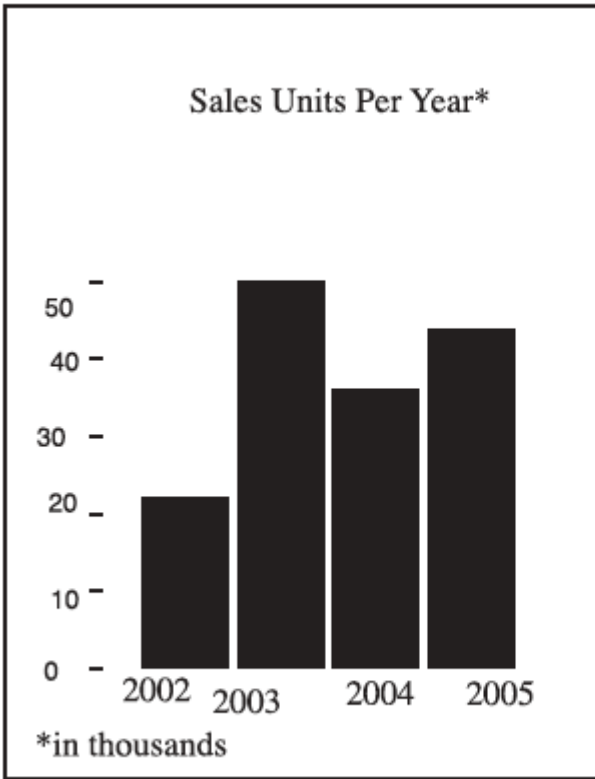
FOCUS:

With fonts, make sure they can be read at small sizes and are available in a variety of weights (plain, **bold**, *italic* etc.) necessary for your presentation.

FOCUS:

With fonts, make sure they can be read at small sizes and are available in a variety of weights (plain, **bold**, *italic* etc.) necessary for your presentation.

Avoid illustrative or script based typefaces such as **Comic Sans** and *Snell Roundhand*.



SOURCE:
 Basics of Design - Layout and Typography
 Lisa Graham

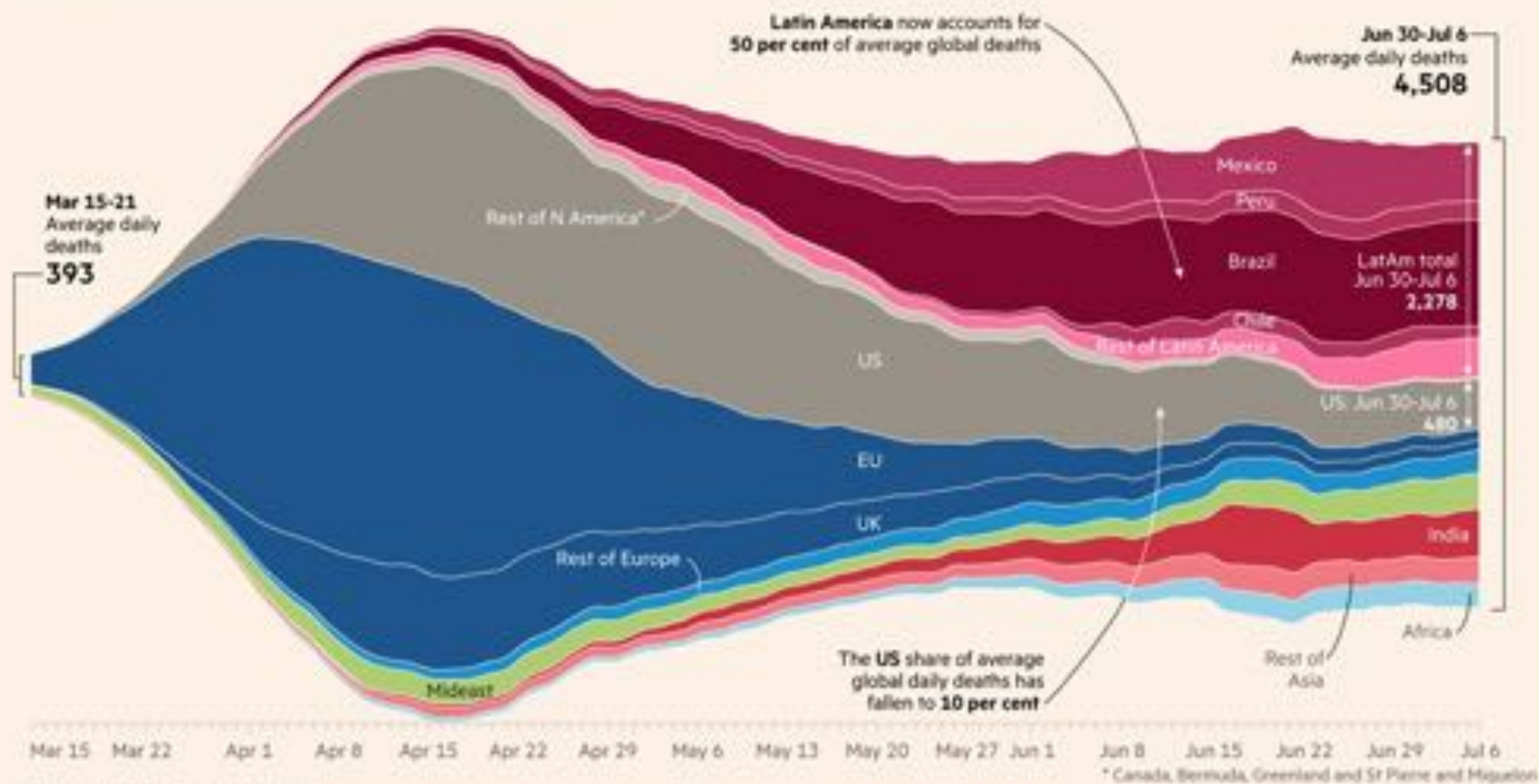
Focus Colour: Initially, work in black/grey and then introduce colour to draw attention.

Focus Colour: Initially, work in black/grey and then introduce colour to draw attention.

Colour should be used to code data or alert your audience to issues/successes at a glance.

Surge in Latin America means global daily death toll on the rise once again

Daily deaths of patients diagnosed with coronavirus (7-day rolling average)



Daily confirmed deaths (% by region)



FINALLY...

Test your data design on others:
volunteers or colleagues.

FINALLY...

Test your data design on others:
volunteers or colleagues.

Someone else looking at your data design
can spot issues you may not have considered.

FINALLY...

Test your data design on others
(volunteers or colleagues).

Someone else looking at your data chart
can spot things you didn't even consider.

Good data visualisation is defined as
functional, intuitive, user-oriented, innovative,
useful and above all honest.

Data Visualisation Course

Autumn 2020



AUDIENCE

For professionals who work with data in order to gain greater insights into systems and processes.

STRUCTURE

A nine-week blended learning course;
4 teaching, 4 tutorial sessions, 1 presentation.

Teaching sessions offer fundamentals of design
and how to create effective data visualisation.

For the tutorial sessions, participants select a
piece of work-related data and over four weeks,
develop design approaches to the chosen data.

The final session is a presentation of
their project findings.

DURATION

Nine week programme
Part-time, one-day a week

AWARD

10 Credit Special Purpose Award
from Limerick Institute of Technology.

COURSE

For further details contact:
grainne@icbe.ie

Thanks!
Questions.