DATA VISUALISATION
Training by Andy Kirk

1-day workshops

TRAINING OBJECTIVES

The one-day training workshops aim to provide delegates with an accessible and comprehensive understanding of the subject of data visualisation: how to effectively communicate data visually.

The focus of the training is to teach the craft of this discipline, helping delegates to know what to think, when to think and how to think about all the analytical and design decisions involved in any data-driven communication. There are four key learning aims for these workshops:

- To challenge your existing thinking about creating and consuming visualisation works, helping to clarify your convictions about what differentiates good from bad visualisation design.
- To enlighten you with an appreciation of the wide range of analytical and design options, including chart types, features of interactivity, annotation, colour applications, and composition.
- To equip you with an efficient design process giving you the confidence to make astute choices based on sound principles and practical guidelines.
- To inspire you to elevate your ambitions, by broadening your visual vocabulary and exposing you to contemporary techniques.

THE APPROACH

The training is structured around a proven design process. Across the session delegates will build up, stage by stage, a detailed understanding of all the different aspects of decision-making that goes into any data visualisation project, whether for one-off or recurring works.

The content is delivered through a vibrant blend of teaching, discussion, and group practice. The practical exercises vary in nature from evaluating work, conceiving ideas, and forensically assessing design choices.

The approach to teaching this subject is not framed around specific tools or applications. Across the session there will be references for some of the most common, contemporary technologies but the emphasis is on the underlying craft, regardless of your tools or skills.

Materials will be issued digitally (e.g. Dropbox/USB flash drive) covering all teaching content, exercise files and useful resources. Attendees are required to bring fully-charged laptops to use as a convenient workspace for the session. The only software requirements are Excel, a browser and pdf reader: no other technical or skill-based prerequisites exist.

WHO SHOULD ATTEND?

Nearly 6,000 people have attended these workshop sessions with delegates come from all backgrounds, organisation types and domain areas: they are intended for and useful for any participant demographic.

You might be an analyst, statistician, or researcher looking to enhance the creativity and impact of your communications. Perhaps you possess creative flair, as a designer or developer, and you're seeking to enhance the rigour of your data-driven capabilities? Maybe you do not personally get involved in the analysis or presenting of data but manage others who do?

We are all frequent consumers of data visualisations in our daily lives, via media and through the workplace, whether we realise or not, so improving the sophistication of how one reads, interprets and evaluates the effectiveness of such displays is a key literacy.

Above all, the most critical attribute is your curiosity - an instinct for and interest in discovering and sharing insights from data - and your appetite to find a fresh approach to communicating data through visual representation and presentation. Finally, you should be willing to contribute to and learn from discussions during class exercise activities and do so in a respectful and constructive manner.

TYPICAL AGENDA

The agenda is constantly being refined so the final itinerary and precise times may evolve but here's an indicative outline of the one-day session.

9:30  WELCOME
Welcome to the training
Defining data visualisation

Exercise 0 – Review of instinctive critical evaluations

10:20  1. Formulating your brief
Exercise 1 – What information do you need? | Discussion

10:50  AM BREAK

11:10  2. Working with data
Exercise 2 – Visualising the Olympics (1/3)

11:45  3. Establishing your editorial thinking
Exercise 3 – Visualising the Olympics (2/3)

12:10  4. Developing your design solution
4.1 Data representation

12:45  LUNCH

13:45  Exercise 4 – Visualising the Olympics (3/3) | Discussion

14:45  4.2 Interactivity
Exercise 5 – Forensic critical evaluations

15:20  PM BREAK

15:35  4.3 Annotation, 4.4 Colour, 4.5 Composition
Exercise 5 contd. – Forensic critical evaluations | Discussion

16:50  Training review and Q&A

17:00  FINISH

TRAINER PROFILE

Andy Kirk is a UK-based data visualisation specialist: design consultant, training provider, lecturer, author, speaker, researcher, and editor of the award-winning visualisingdata.com. Since becoming a freelancer in 2011, Andy has delivered over 260 public and private training events across 26 countries. Recent clients include Spotify, Google, EU Council, and CERN. He has held visiting lecturing roles at MICA (USA) and Imperial College (UK), and will commence teaching at UCL (UK) in 2020. He is the author of three books, with the most recent title published in July 2019 by Sage, 'Visualising Data: A Handbook for Data Driven Design (second edition)'. Andy also provides data visualisation services to Arsenal FC.