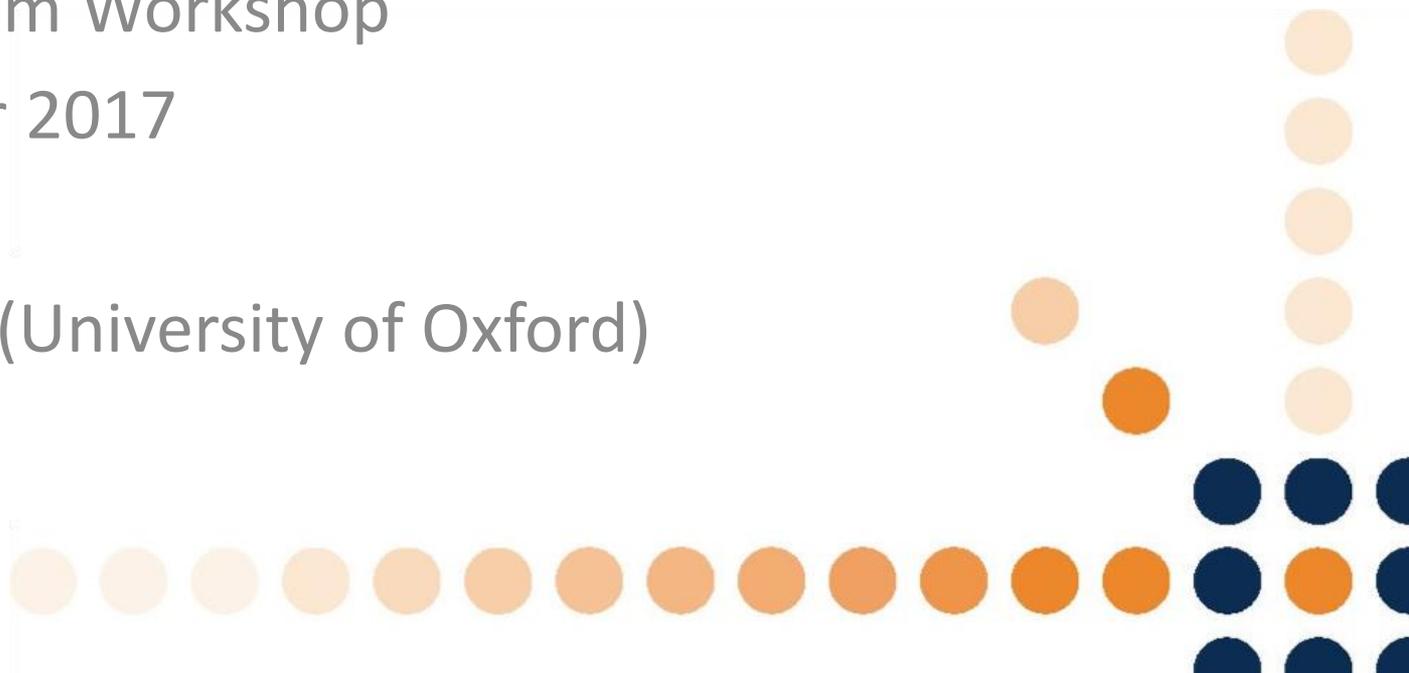


# Tools and Resources for Data Visualisation: An Overview

Data Journalism Workshop

4-5 December 2017

William Allen (University of Oxford)



# Objectives and Aims

Understand the scale and scope of what resources are available to make data visualisations

Be able to connect what is available to what your project might need

Learn what skills and resources will be required in the future for your own strategic planning



# Opportunities for Learning Data Viz

More resources than ever before for data visualisation—particularly online and self-guided

Many free or low-cost options

Datasets are increasingly available on virtually any topic



# Challenges for Learning Data Viz

Different sets of skills needed: coding, programming, statistical literacy, graphic design

Difficult to differentiate among options that are high/low quality, or have high/low ease of use

Any given 'solution' is highly dependent on needs, aims, available skills, and purpose



# So What Can We Do?

Remember to be aware of visual literacy: what kind of visualisation do we want to create, for which audiences, and in which medium?

Think about what resources and capacities you already have—and which ones you may need to seek out

Once we have a clear sense of our objectives and needs, then we can consider appropriate solutions



# Statistical and Data Skills for Journalists

‘Statistics for Journalists’, Royal Statistical Society:  
<https://www.statslife.org.uk/resources/for-journalists/courses/1880-statistics-for-journalists>

‘Doing Journalism with Data: First Steps, Skills, and Tools’, European Journalism Centre:  
<http://datadrivenjournalism.net/>



# Commonly Cited Low-Cost Solutions, and Their Pros/Cons

	<b>Excel</b>	<b>Tableau (Public)</b>	<b>D3.js</b>
<b>Advantages</b>	Basic, near-universal availability	All-inclusive software with more advanced options, sharing/embedding, extensive help	Creates highly interactive and visually appealing outputs
<b>Limitations</b>	Limited scope for customisation, wider (re)use, visual impact	Some data management and handling skills required; proprietary software	Relatively high degree of coding skill required

# Chart Building and Design Skills

Information Visualisation MOOC, Indiana University:  
<http://ivmooc.cns.iu.edu/>

Tableau: <https://www.tableau.com/learn/training>

D3.js: <https://www.udacity.com/course/data-visualization-and-d3js--ud507>

Google Charts: <https://developers.google.com/chart/>



# Programming and Coding Skills

Codecademy: <https://www.codecademy.com/>

Udemy (paid): <https://www.udemy.com/>



# Learning by Example: Resources for Seeing What is Possible

Andy Kirk, Visualising Data: <http://www.visualisingdata.com/>

Nathan Yau, Flowing Data: <https://flowingdata.com/>

Alan Smith OBE, Financial Times: <https://www.ft.com/data-visualisation>

The Guardian: <https://www.theguardian.com/technology/data-visualisation>

Seeing Data: [www.seeingdata.org](http://www.seeingdata.org)



# Questions?

