

DATA JOURNALISM TRAINING CURRICULUM

Training offered by One.org
and facilitated by the Data Science team at iHub

Introduction

This is a one day data journalism curriculum aimed at providing practicing journalist with fundamental knowledge in data representation and visualization. The curriculum will be divided into three sessions that covers the following:

- Introduction to data visualization
- Building blocks of data representation
- Designing visualizations

The basic structure of the training will consist theoretical lectures interwoven with discussions - a few practical demonstrations may be utilized for demonstration purposes. Curriculum details are provided in the next section.

Curriculum

Session One

- Introduction
 - What is data visualization
 - Statistical graphics
 - Informative art
 - Information visualization
 - Infographics
 - Scientific visualization
 - Principles of Visualization
 - Is it useful
 - Answer user questions
 - Is it important
 - Does it drive decision and interpretation
 - Is it powerful
 - Communicate, teach, inspire

Session Two

- Foundation and Theory
 - Thinking and seeing
 - Visual perceptions
 - Eye vs Camera
- Building Blocks
 - From data to graphics
 - Data types
 - Data type transformation
 - Advanced data types
 - Visual encodings
 - Points, lines, area, volume
 - Channel effectiveness
 - Application
 - Bar chart, histogram, scatter plot, bubble chart

Session Three

- Design and Critique
 - Principles and guidelines
 - Design guidelines
 - Integrity
 - Effectiveness
 - Aesthetics
 - Style guidelines
- Construction of
 - Building visualizations
 - Visualization software
 - Python, R, CartoDB