



# **Data Journalism Syllabus**

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## Modules

### Module 1: Introduction to Data Journalism

*Lesson 1:* How Data is Used for Public Interest Stories

*Lesson 2:* How to Find a Story in Data

*Lesson 3:* Sector-Specific Data Stories

### Module 2: From Data to Stories

*Lesson 1:* Common Data Formats

*Lesson 2:* Finding Data Online

*Lesson 3:* Alternative Data Sources

*Lesson 4:* Planning a Data Story: Hypothesis and Questions

*Lesson 5:* Enriching Stories With Data

*Lesson 6:* Analyzing Fact Sheets

### Module 3: Understanding Data

*Lesson 1:* Organizing Data

*Lesson 2:* Verifying Data

*Lesson 3:* Summarizing and Simplifying Data Insights

*Lesson 4:* Essential Statistics

*Lesson 5:* Evaluating Data Interpretation

*Lesson 6:* Data Privacy

### Module 4: Data Visualization

*Lesson 1:* Purpose of Data Visualization

*Lesson 2:* Matching Data and Graph Types

*Lesson 3:* Design and Color Basics

*Lesson 4:* Map Theory

*Lesson 5:* Ethics of Data Visualization

*Lesson 6:* Visual Storytelling

### Module 5: Data-Driven Stories

*Lesson 1:* Reaching your Audience

*Lesson 2:* Data Driven Interviews

*Lesson 3:* Anatomy of a Data Story

*Lesson 4:* Data-Driven Leads

*Lesson 5:* Data-Driven Writing

*Lesson 6:* Solution Journalism

## Labs

### Scraping and Cleaning

*Scraping 1:* Scraping PDFS

*Scraping 2:* Scraping websites

*Cleaning 1:* Cleaning in Excel

*Cleaning 2:* Cleaning in OpenRefine

### Analysis

*Excel 1:* Basic calculations

*Excel 2:* Summary Statistics

*Excel 3:* Percentage change

*Excel 4:* Working with large datasets

*Excel 5:* Pivot Tables

*Excel 6:* Advanced merging and formulas

### Visualization

Visualization 1:  
DataWrapper

Visualization 2:Pictochart

Visualization 3 Tableau

Visualization 4: Mapping  
CARTO

Visualization 5:Tableau  
Public

Visualiation 6: Tableau  
Public Dashboards