Infection Survey Exercise – Instructions

The objective of this exercise is to build insightful charts, using the ggplot2 and extension packages, of a public dataset. This data comes from the ONS here. The data contains the daily COVID infection rate in 9 English Regions over a recent six-week period. It contains the central estimate and upper and lower bands of the 95% credible interval.

Region	*Date*	*Value*	*Lower*	*Upper*
East Midlands	22-Nov-20	1.23%	1.04%	1.43%
East of England	22-Nov-20	0.45%	0.37%	0.54%
London	22-Nov-20	0.70%	0.62%	0.79%
North East	22-Nov-20	1.66%	1.38%	1.97%
North West	22-Nov-20	1.67%	1.51%	1.83%
South East	22-Nov-20	0.72%	0.62%	0.83%
South West	22-Nov-20	0.61%	0.50%	0.74%
West Midlands	22-Nov-20	1.36%	1.18%	1.56%
Yorkshire and The Humber	22-Nov-20	1.79%	1.59%	2.00%
East Midlands	23-Nov-20	1.19%	1.00%	1.39%
East of England	23-Nov-20	0.44%	0.36%	0.53%
London	23-Nov-20	0.68%	0.60%	0.77%
North East	23-Nov-20	1.60%	1.32%	1.92%
North West	23-Nov-20	1.62%	1.46%	1.79%

There are two R scripts

- Infection Survey Start. R
- Infection Survey Example Solution. R

Edit the Infection Survey Start R script to complete the exercise. This script already has some R code to that you can immediately start to create some charts. The script imports the dataset then transforms it into a tidy shape, so you can immediately start to create some charts. It then has a set of instructions and hints, as R comments, to help you.

The Infection Survey Example Solution R script shows one way of building the charts – you may well create different and better visualisations.