STA5092Z EDA Lecture Content

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Lecture	Material	Possible resources
1-2 [html], [slides], [pdf]	R installation, basics, workflows Visualizing raw data with ggplot	JB2 HW3, RP6
3-4 [html], [slides], [pdf]	Managing data frames with dplyr Filter, select, arrange, mutate, summarize	JB5–7, HW5, RP3 Some from DSFI
5-6 [html], [slides], [pdf]	EDA checklist Right questions, correlation, missing values, outliers	RP4, HW7
7-8 [html], [slides], [pdf]	Reshaping, tidying, joining dataframes tidyr, more dplyr	JB8, JB14–16, HW12–13
9–10	Principles of good graphics	JB24–27, RP5, RP14–15
11–12	Exploring time series data	JB10–13, HW14–16
13	Exploring spatial data	
14	mapview, leaflet, sf	
15	Functional programming with R	
16	Writing functions, purrr	
17	Visualising data using animations	RP11–12
18	gganimate	
19–20	Version control with Git and GitHub	JB3, some from DSFI
21	Dashboards	JB42
22	flexdashboard, shiny	
23–24	Dimensionality reduction and Clustering	RP13