

DataVizA Tutorial: Additional Issues

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Tutorial 7

Electricity Data

The file *electricity.csv* contains data on the total daily demand of electricity in Victoria, the maximum daily temperature and an indicator variable for weekend/weekday.

1. Plot a scatter plot of Maximum daily temperature (x axis) against total daily demand (y axis) with weekends and weekdays in different colors.
2. Add smooth lines obtained by a LOESS estimate.
3. Add the line of best fit from a linear regression model.
4. What regression model could be suggested by such a plot?
5. Using plotly investigate the outlier that is a work day but has a very low consumption of electricity. Why may this be.

Swiss Exports (One last time)

6. Create a path plot of the yearly exports to Germany against the yearly exports to the USA.
7. Add the year labels as text to the plot
8. What do you see in this plot?