

Notebook 2

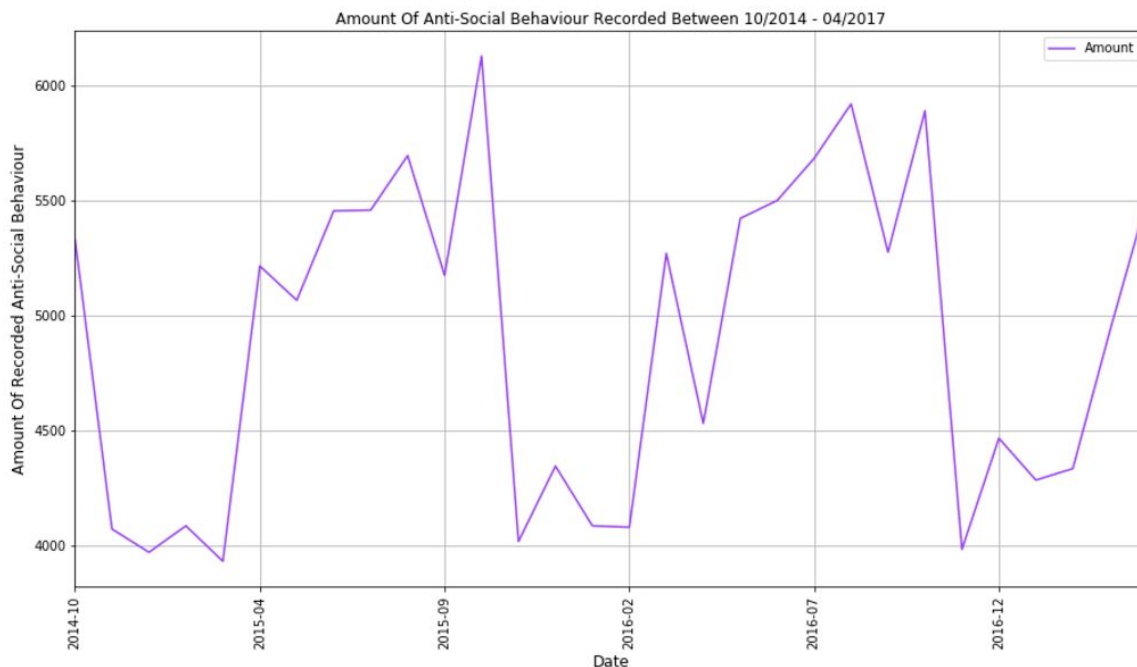
Aim

I will be looking at the amount of antisocial behaviour in areas and comparing the value to the amount of youth clubs in the area, the amount of people processed by the youth justice system in the area as well as the average house price of the area. The aim is to discover if there are links between these variables, explain any links and how they may be affected by future changes. This information would be useful for organisations such as local councils, youth agencies and the PSNI.

Recorded Antisocial Behaviour Between 10/2014 - 03/2017

Between October 2014 and March 2017 there were **147033** instances of Antisocial behaviour recorded.

Below is a line graph showing the fluctuation of recorded Antisocial Behaviour over the period

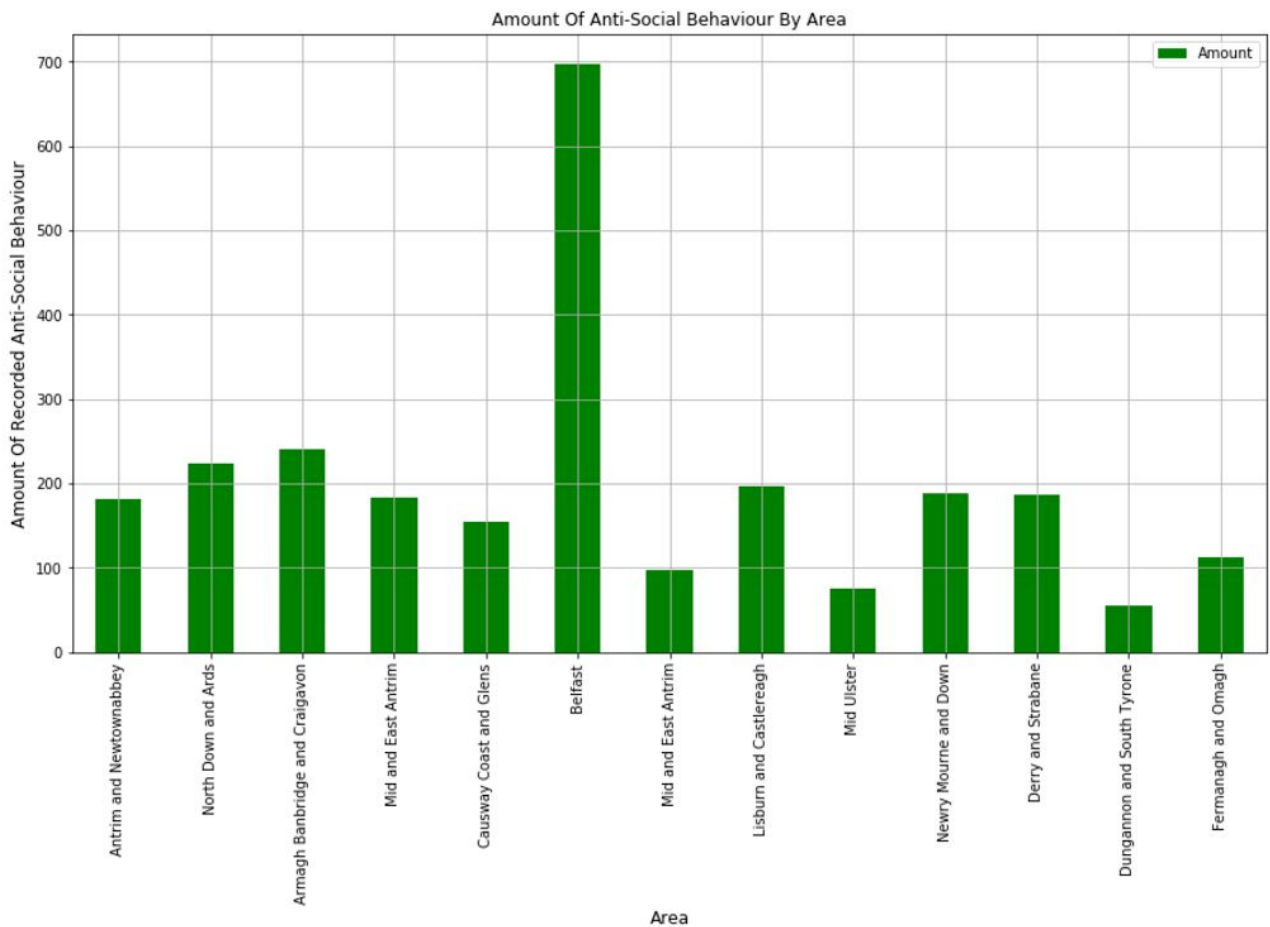


Above shows a line graph for all recorded antisocial behaviour recorded between 10/2014 and 04/2017 the graph follows a trend that would be expected:

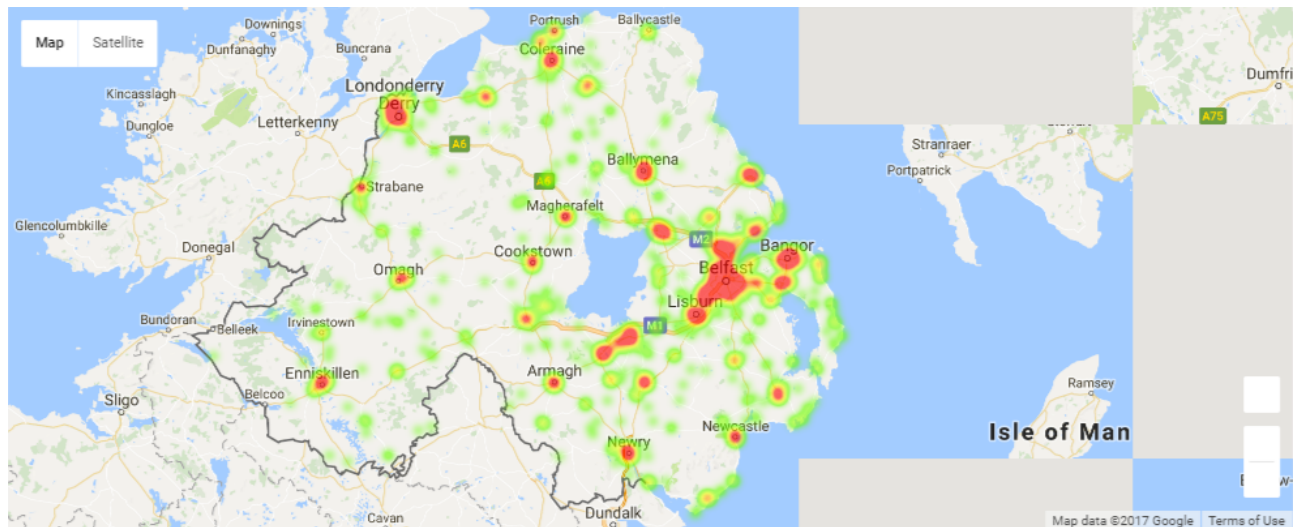
- The amount rises in the times of the 12th, Halloween, St. Patrick's Day and New Years Eve

- However every year the amount of anti social behaviour falls to an all year low during December
 - One reason for this could be that youths are in door playing with christmas presents and spending time with relatives
 - Another reason could be that the amount of on patrol police officers is fewer at this time meaning anti-behaviour goes unnoticed

A 2500 sample was taken because of limitations with the google maps api. Below is a bar chart showing the amount of anti social behaviour by area.

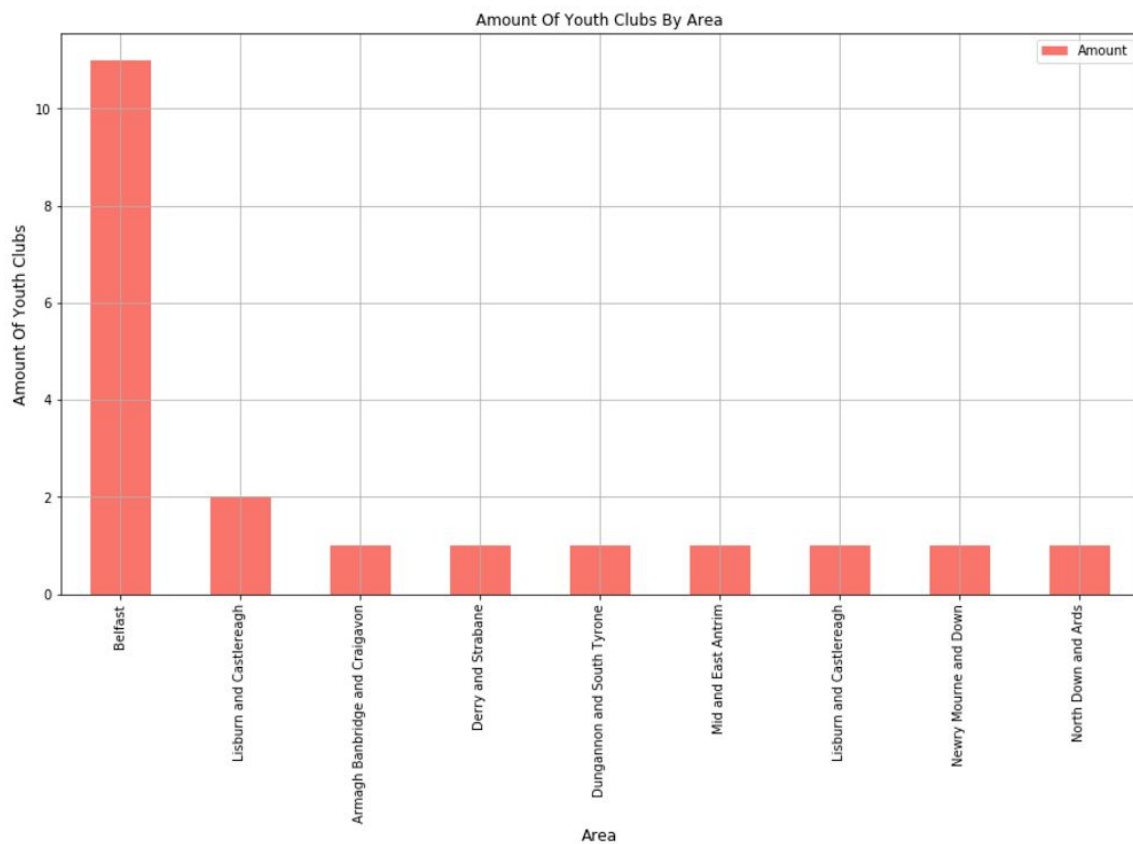


Below is a heat map showing the distribution of anti social behaviour



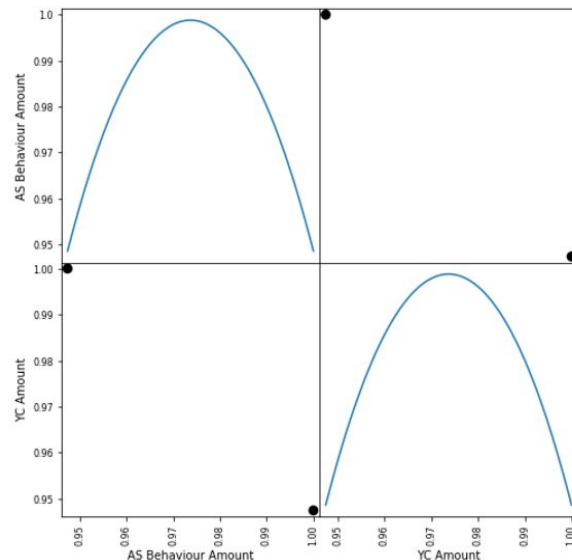
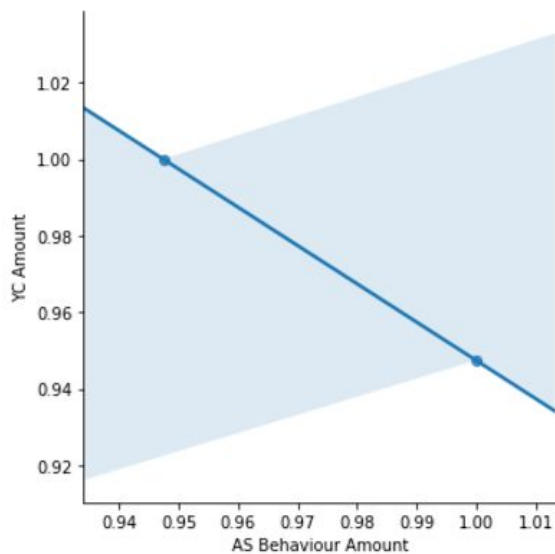
Youth Clubs Per Area

Below is a bar chart showing the amount of youth clubs in each area. *NB google maps places was limited with results



Correlation Between The Amount Of Antisocial Behaviour And The Amount Of Youth Clubs In An Area

	AS Behaviour Amount	YC Amount
AS Behaviour Amount	1.00000	0.94739
YC Amount	0.94739	1.00000



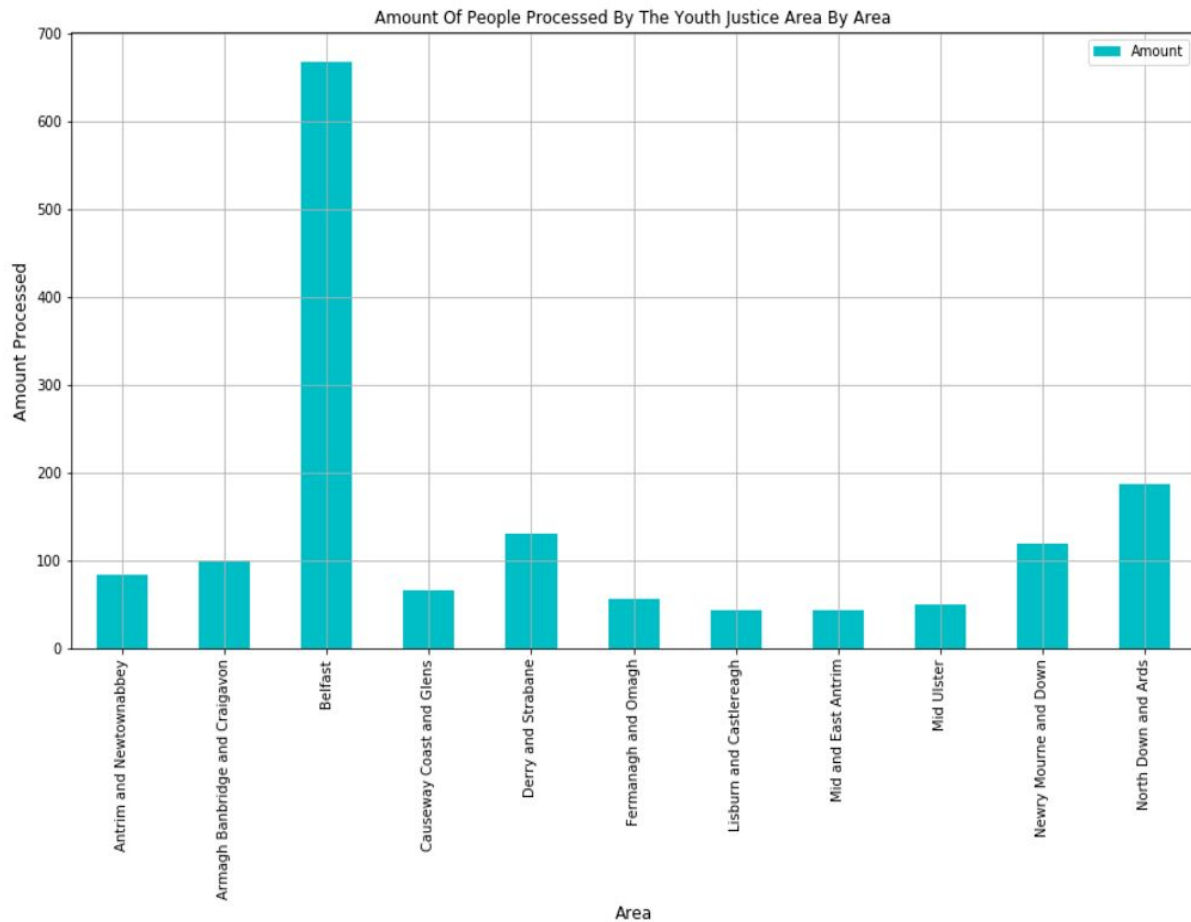
Explaining Correlation

The correlation between antisocial behaviour and the amount of youth clubs in an area is + 0.94, a strong positive correlation. This means that as the amount of youth clubs increases in an area the amount of antisocial behaviour increases.

**NB - This result may be skewed as 11/20 youth clubs were in Belfast which has the highest amount of antisocial behaviour. With more youth club data the result will most likely be different.*

Youth Justice System Data 2014 - 2017

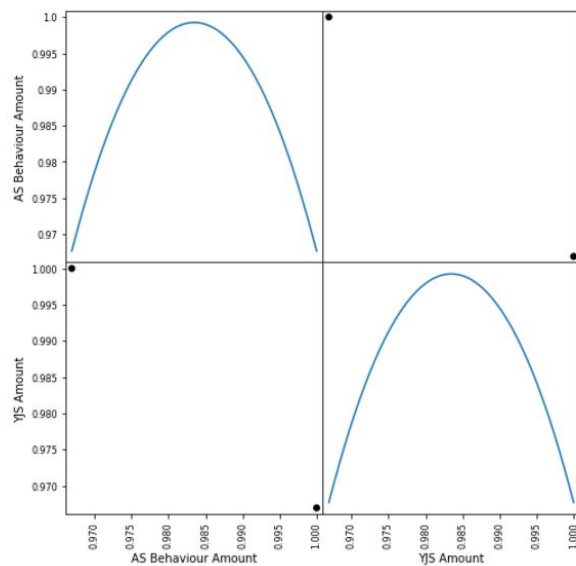
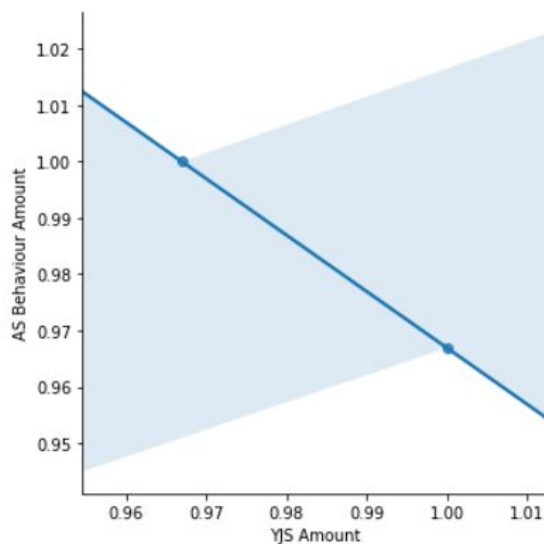
Below is a bar chart showing the amount of young people processed by the Youth Justice System between 2014 - 2017



The Youth Justice Trends are similar to the trends in antisocial behaviour with Belfast processing the most young people

Correlation Between The Amount Of Antisocial Behaviour And The Amount Of Young People Processed By The Youth Justice System In An Area

	AS Behaviour Amount	YJS Amount
AS Behaviour Amount	1.000000	0.966937
YJS Amount	0.966937	1.000000

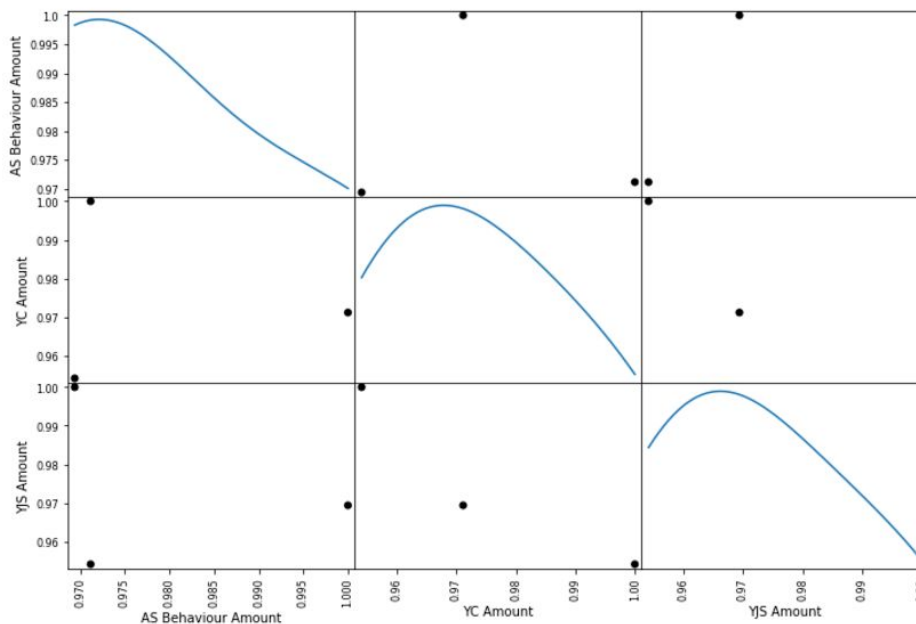
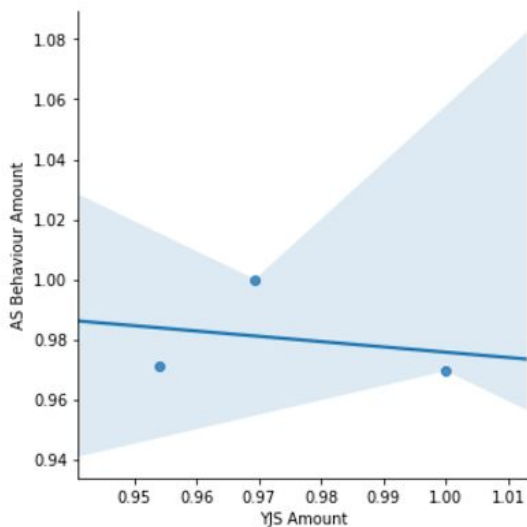


Explaining Correlation

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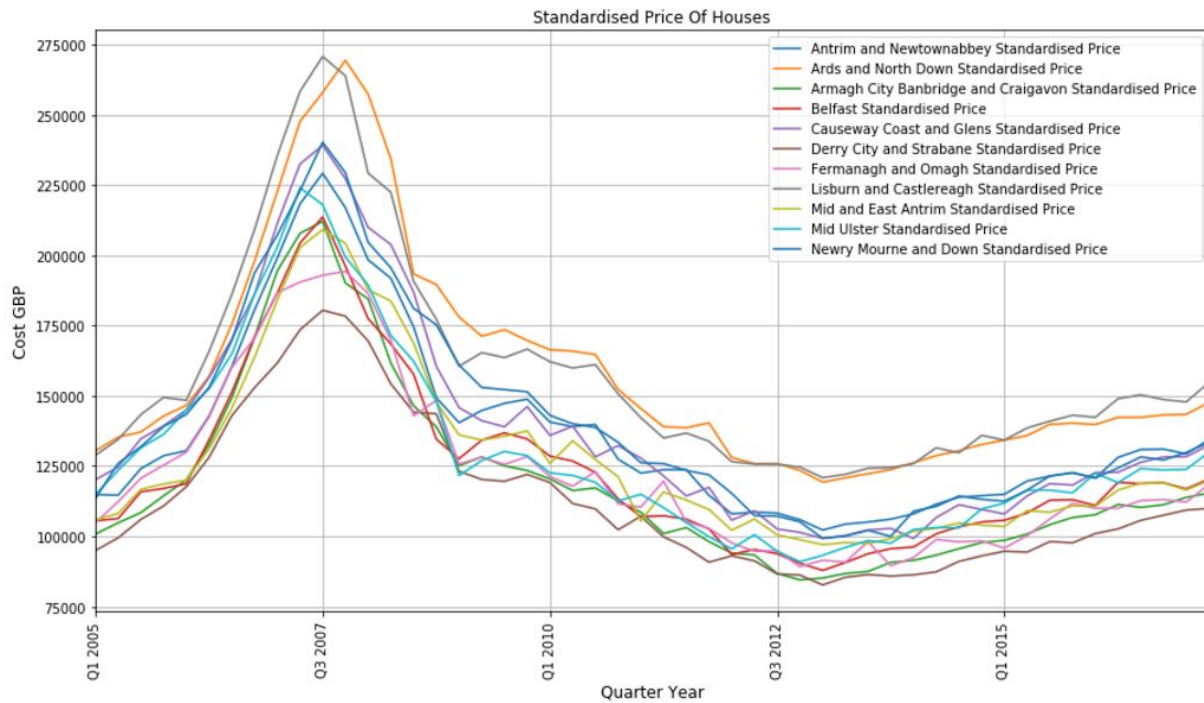
Correlation Between The Amount Of Antisocial Behaviour And The Amount Of Young People Processed By The Youth Justice System In An Area And The Amount OF Youth Clubs In An Area

	AS Behaviour Amount	YC Amount	YJS Amount
AS Behaviour Amount	1.000000	0.971158	0.969371
YC Amount	0.971158	1.000000	0.954100
YJS Amount	0.969371	0.954100	1.000000



House Price Index Data 2005 - 2017

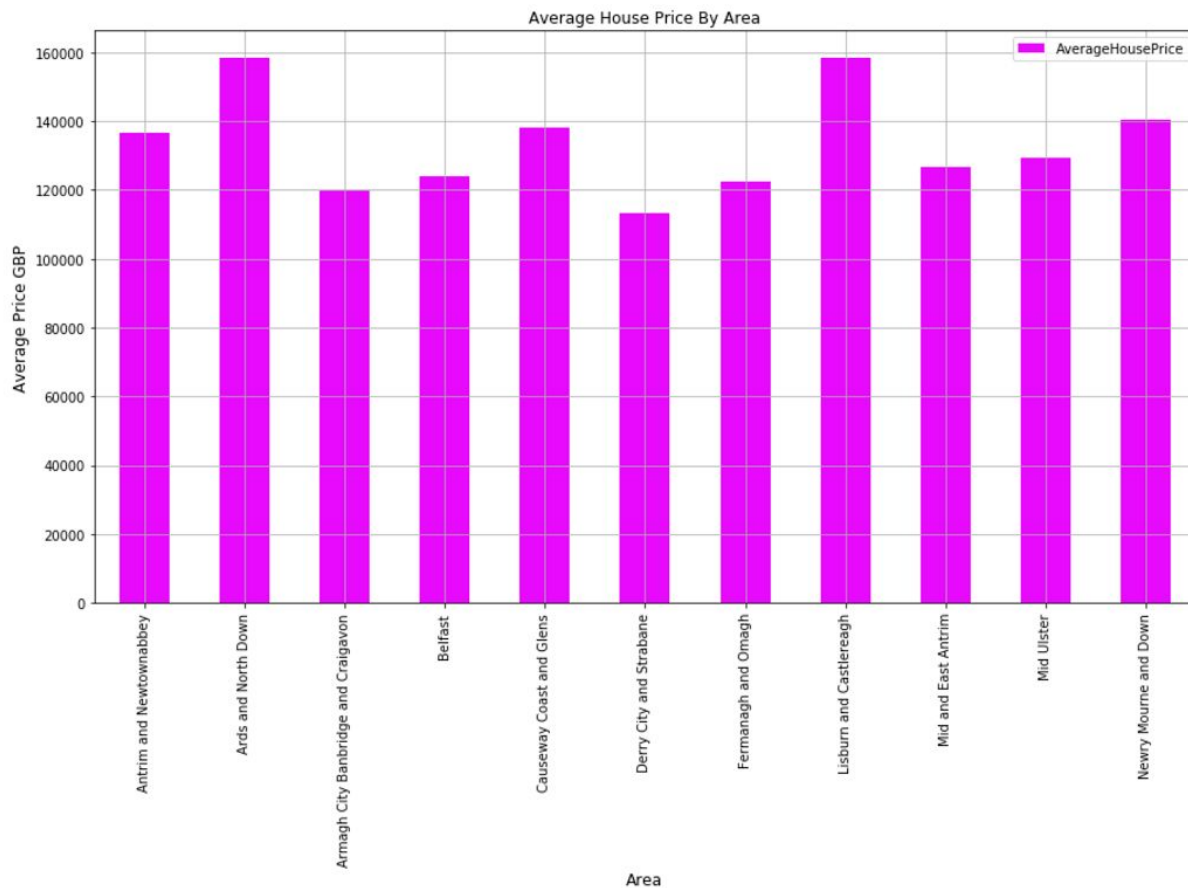
Below is a line graph showing the standardised price for each area between 2005 - 2017



The graph shows the prices between 2005 - 2017 and follows the same trend as the economy at the times, booming in 2007 and falling to an all time low in 2012

Average Price Per Area

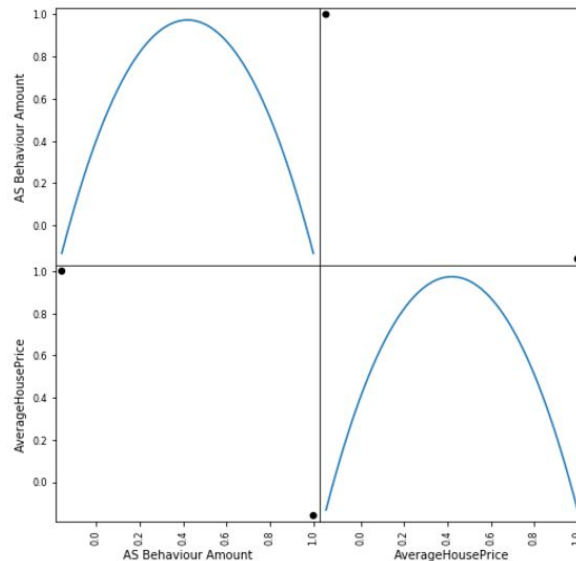
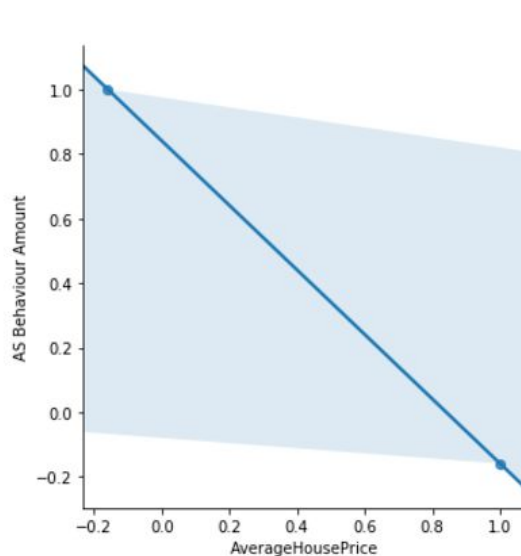
Below is a bar chart showing the average price per area



The average price seems to follow the expected trend with areas such as North Down having a higher price in comparison to areas such as Belfast

Correlation Between The Amount Of Antisocial Behaviour In An Area And The Average House Price

	AS Behaviour Amount	AverageHousePrice
AS Behaviour Amount	1.00000	-0.15902
AverageHousePrice	-0.15902	1.00000



Explaining Correlation

The correlation between antisocial behaviour and the average house price in an area is - 0.15, a weak negative correlation. This means that as the amount of antisocial behaviour increases in an area the average house price is unaffected.

Conclusion

In conclusion you can see that there is a direct correlation between the amount of people processed by the Youth Justice System and the amount of Antisocial Behaviour recorded in an area. Because of this one recommendation that could be made would be to look at a strategy based more around prevention than persuation. Moreover the correlation between the amount of Youth Clubs and Antisocial Behaviour is not fully flushed out, with more Youth Club data we could get a more representative result.