UNIVERSITI KEBANGSAAN MALAYSIA

The effect of International Greenhouse Gas Emissions On Climate Change In Terms Of Weather From 1990–2015

The Greenhouse Gas (GHG) Inventory Data contains the most recently submitted information, covering the period from 1990 to 2015 , to the extent the data have been provided.

Presented To

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Presented By

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PROJECT STQD6124

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Introduction

- Climate change was affected by international greenhouse gas emissions, has emerged as one of the most pressing global challenges of our time. In this presentation, we will explore the profound impact of these emissions on weather patterns from 1990 to 2015.
- For this presentation, I use two data set which from International Greenhouse Gas Emissions from UNdata and Climate Change: Earth Surface Temperature Data From Berkeley Earth. Both of them can be obtain from website Kaggle.
- The International Green house Gas Emission will be observed in the total gas emission from Green House and Climate Change: Earth Surface Temperature Data will be used to observed the temperature from 1990-2015

	country_or_area	year	value	category	region
1	australia	2014	393126.9	CO2	Oceania
2	australia	2013	396913.9	CO2	Oceania
3	australia	2012	406462.8	CO2	Oceania
4	australia	2011	403705.5	CO2	Oceania
5	australia	2010	406201.0	CO2	Oceania
6	australia	2009	408448.5	CO2	Oceania

Target/Objective # 1

To see the growth of greenhouse gas emission in between 1990-2015

	year	Country	mean_value_uncertainty	mean_value
	<dbl>	<chr>	<dbl>	<dbl>
1	1990	Australia	0.266	17.0
2	1990	Austria	0.352	8.34
3	1990	Belarus	0.253	8.84
4	1990	Belgium	0.259	11.7
5	1990	Bulgaria	0.327	12.8
6	1990	Canada	0.269	7.11

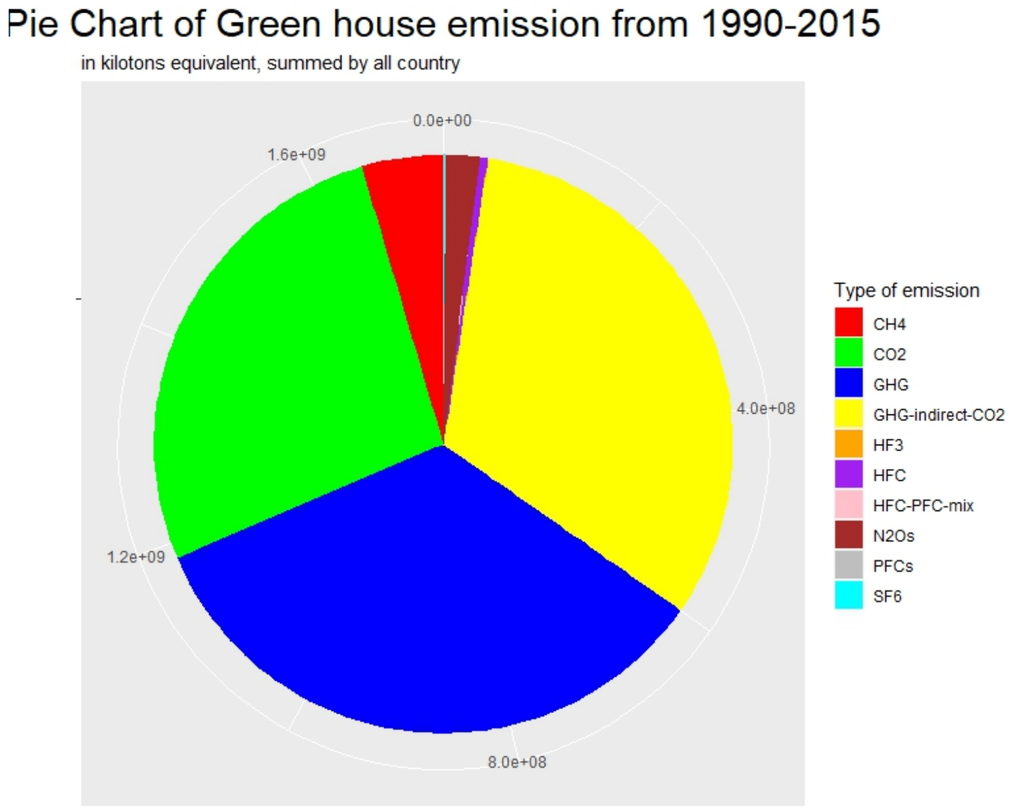
Target/Objective # 2

To investigate the relationship between the greenhouse gas emission with the temperature between countries

The Composition in GHG Emission

- GHG emission inventories are developed by Parties to the Convention using scientific and methodological guidance from the Intergovernmental Panel on Climate Change (IPCC).
    - CO2
    - GHG-indirect-CO2
    - GHG
    - HFC
    - CH4
    - HF3
    - N2Os
    - PFCs
    - SF6
    - HFC-PFC-mix

	Type_of_emission	Value
1	CH4	78727113.88
2	CO2	464020440.85
3	GHG	585188513.19
4	GHG-indirect-CO2	557452664.28
5	HF3	28139.87
6	HFC	7272891.94
7	HFC-PFC-mix	244839.94
8	N2Os	32136750.74
9	PFCs	1515173.45
10	SF6	1243162.51



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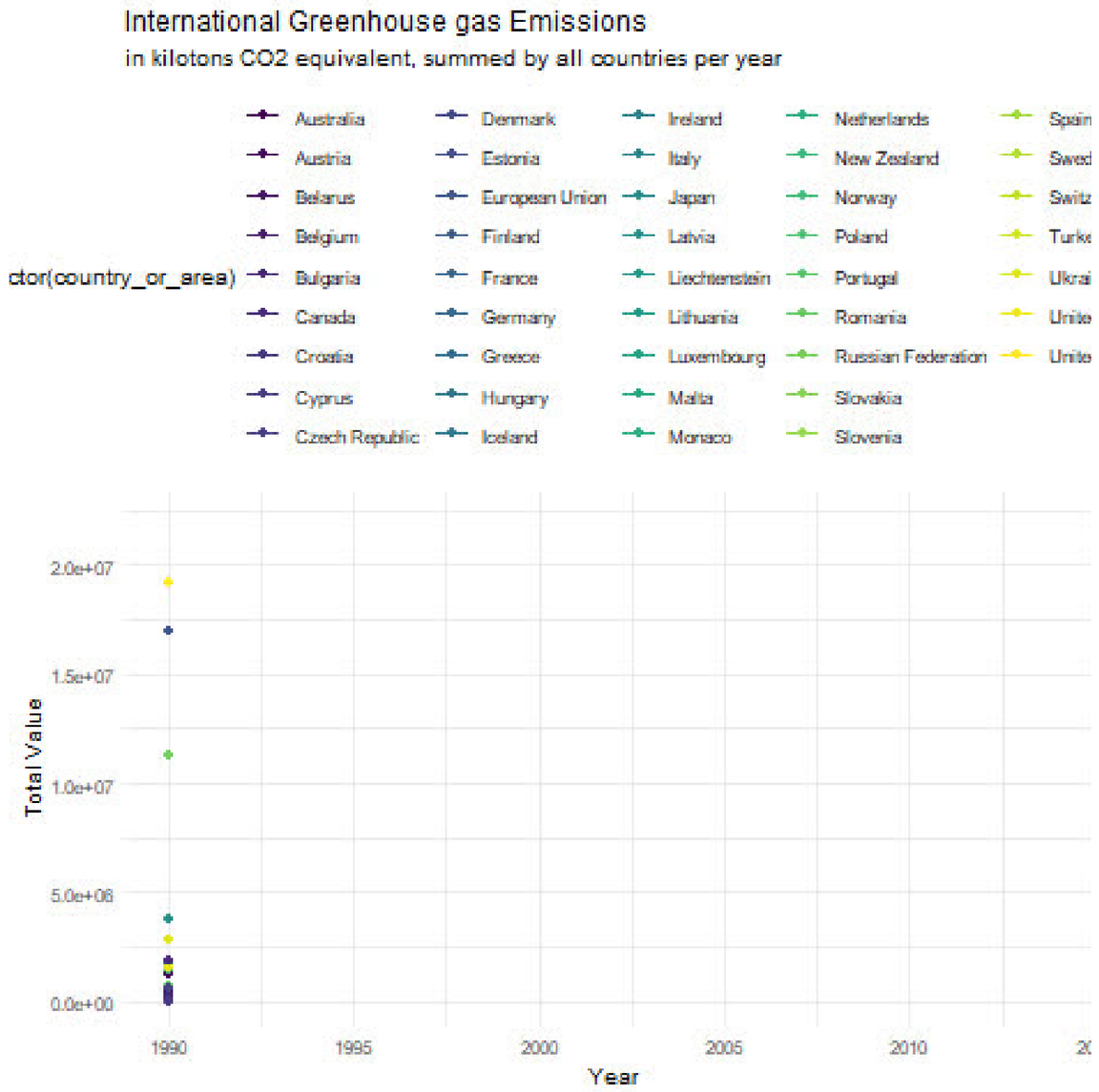
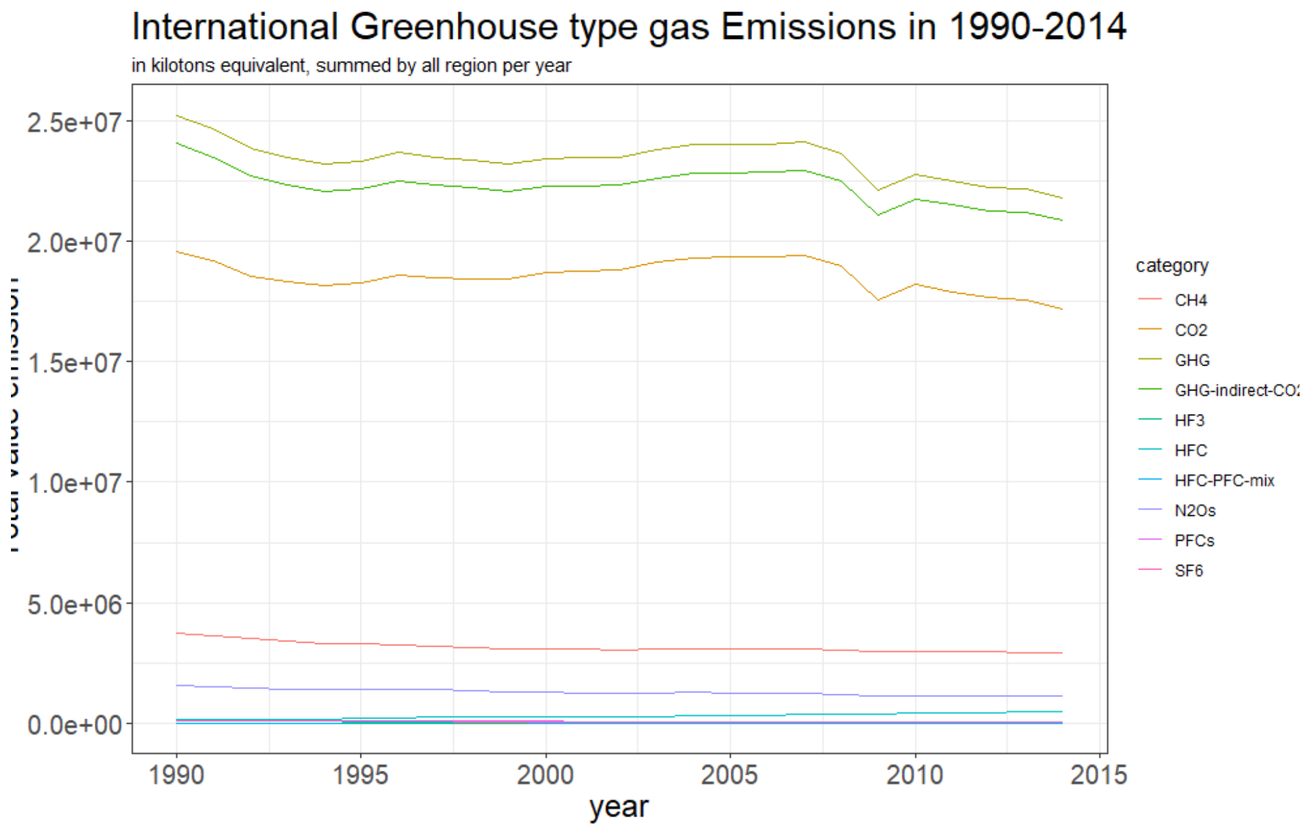
The Emission Greenhouse Gas By Country



Type gas Emission in between 1990–2014



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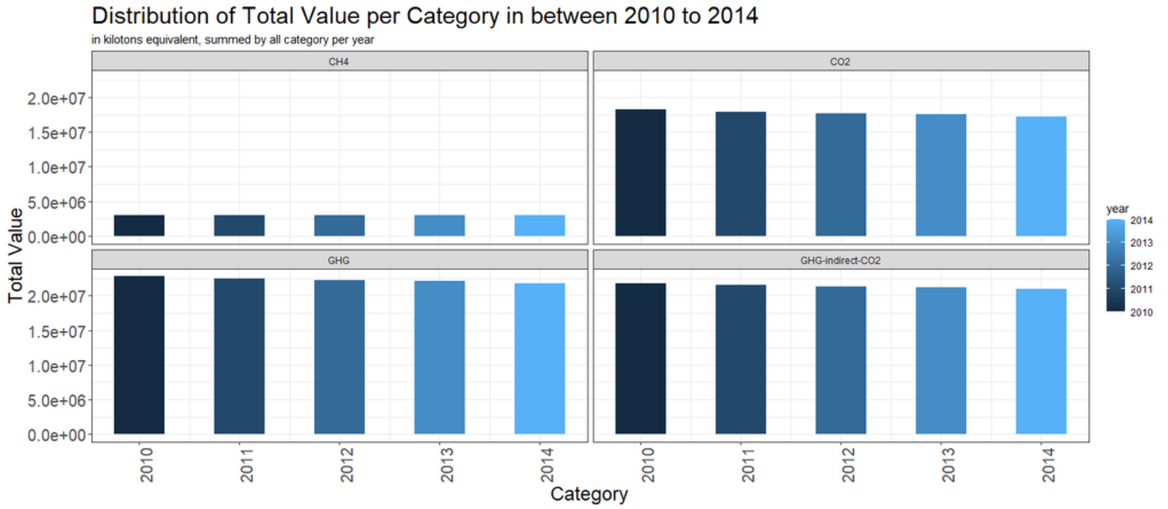
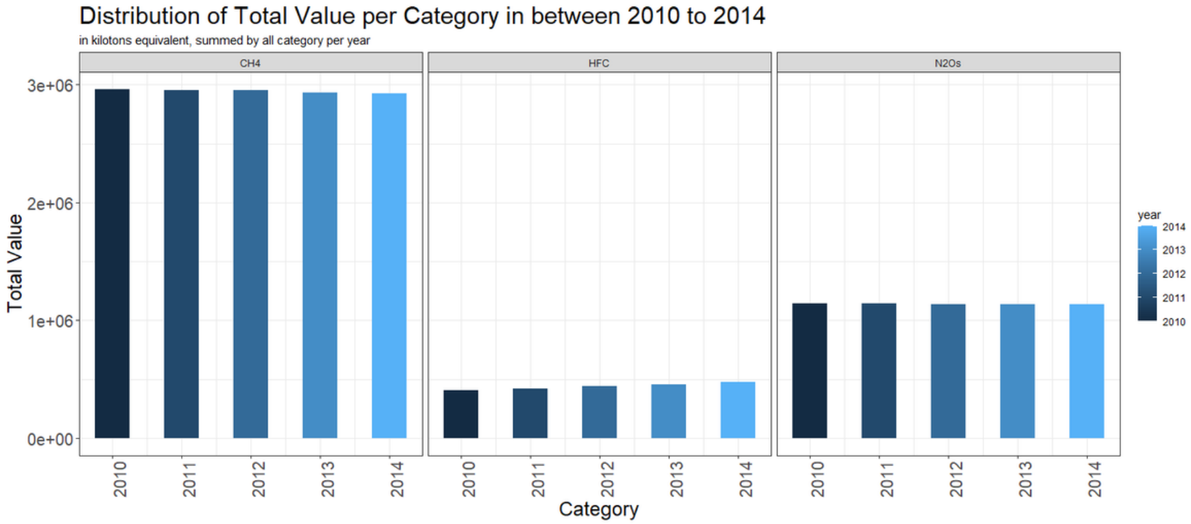
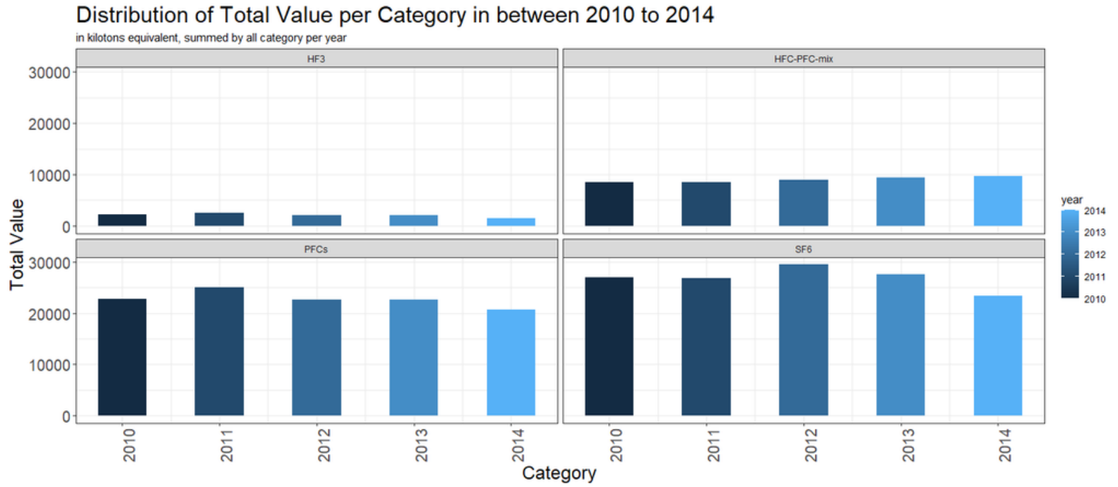
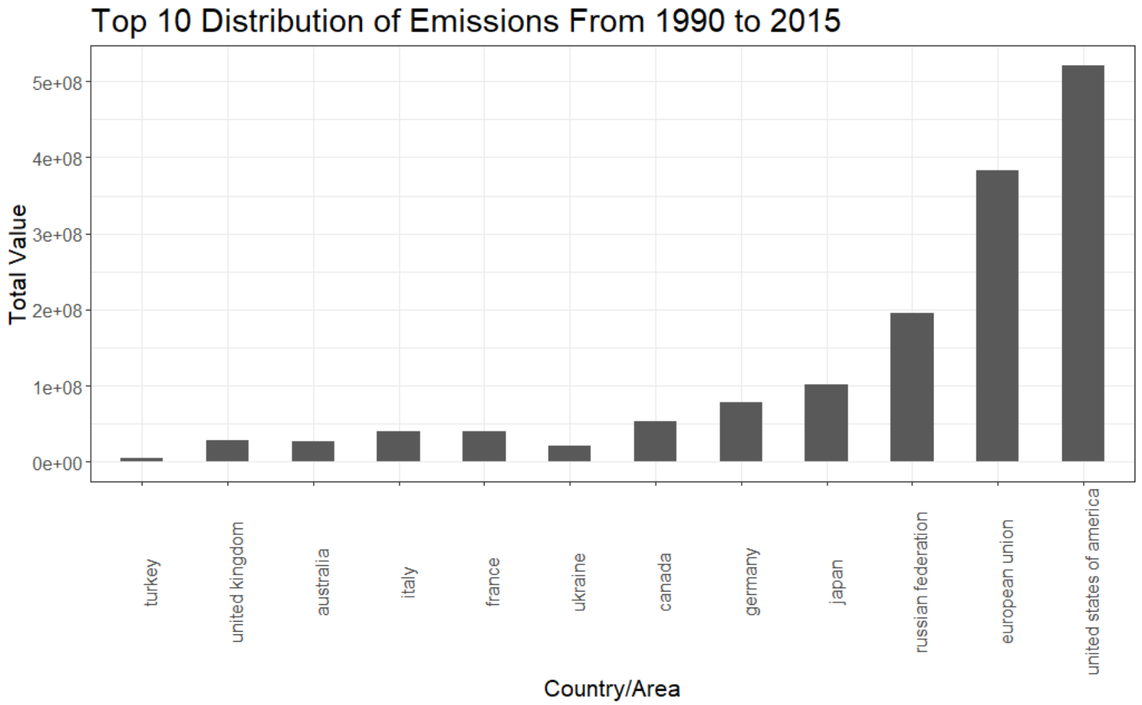
The Emission Green House for the past 5 years

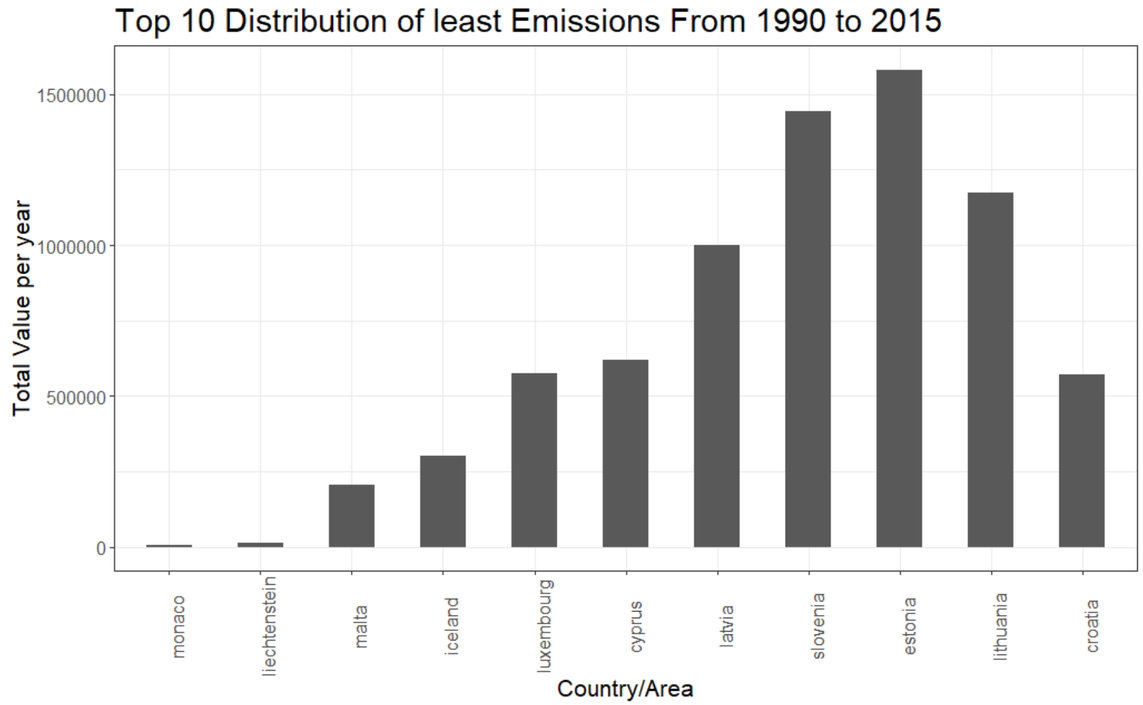




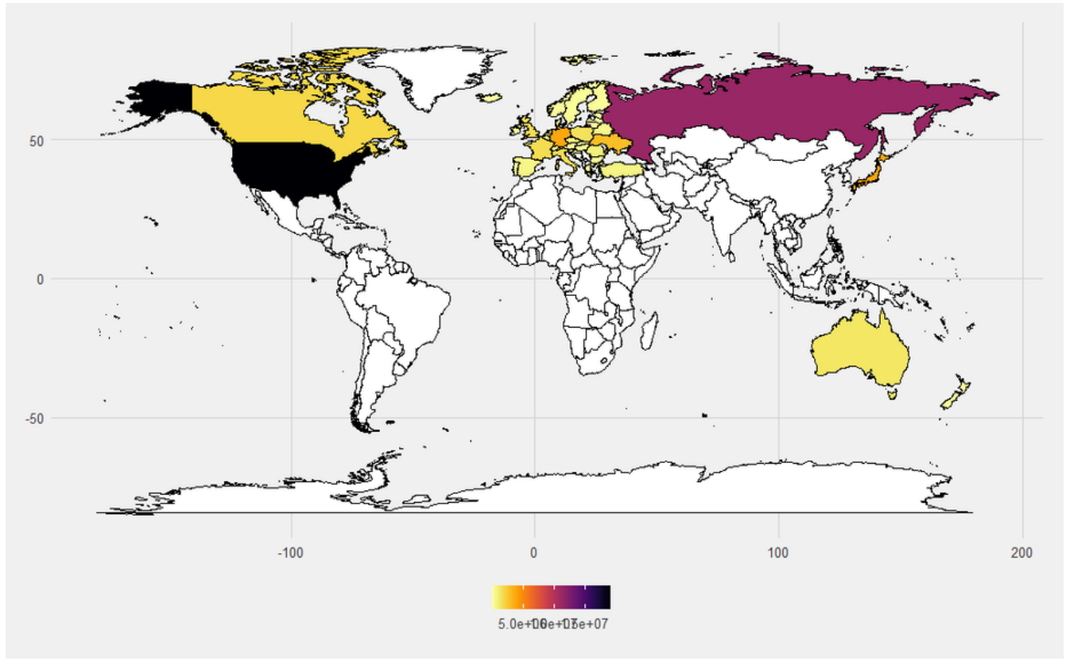


The Emission Green House Gas from country

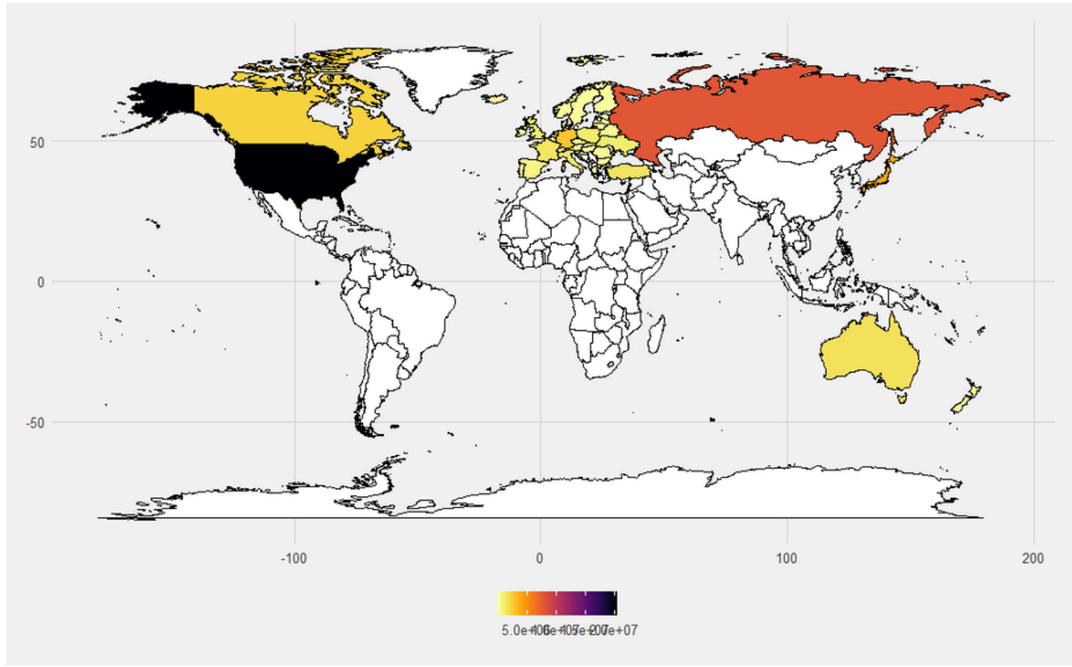




World Map of Green House Gas Emission in between 1990 and 2015

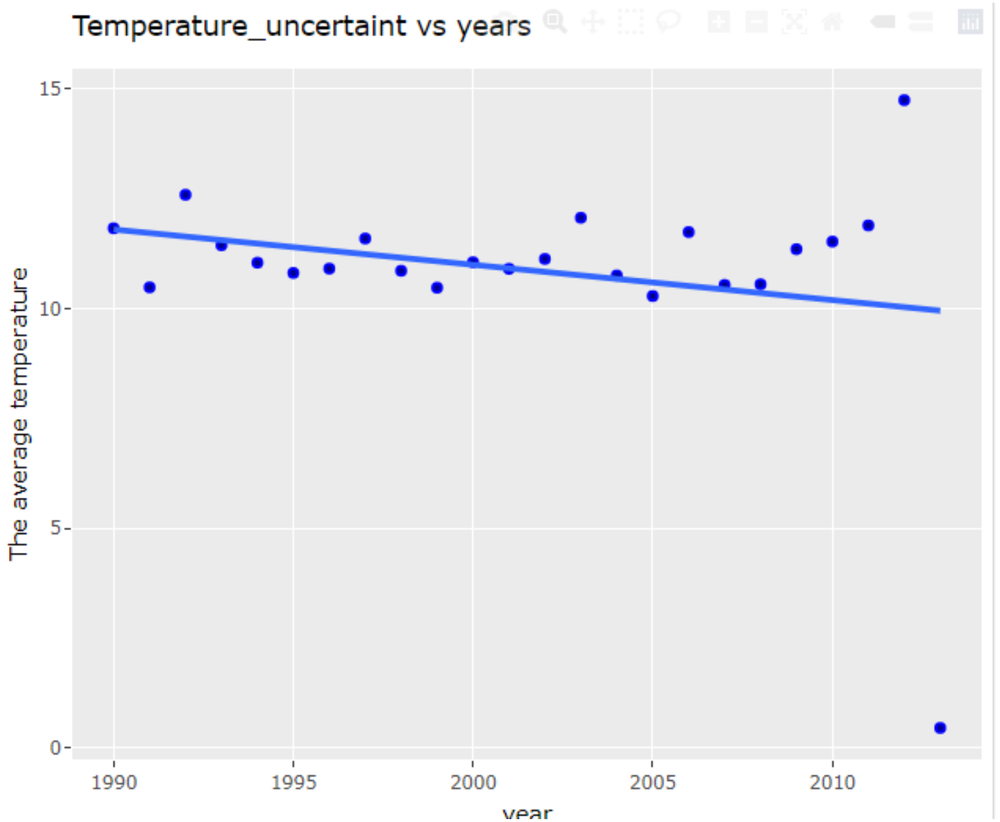


1990

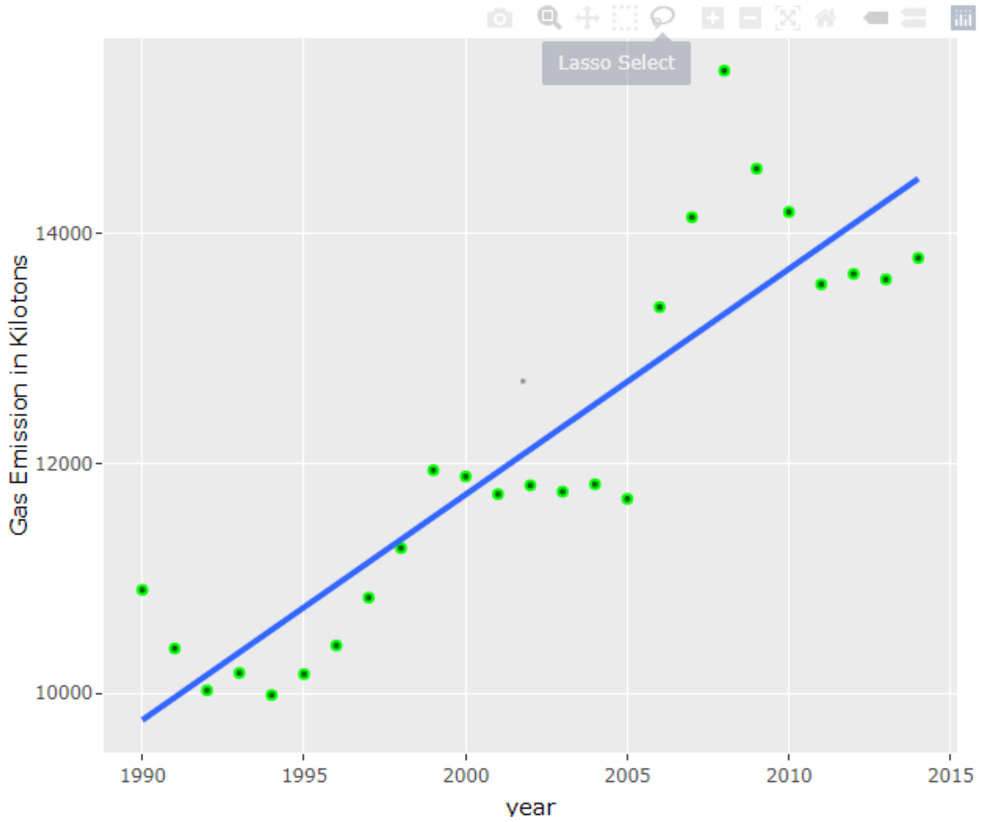


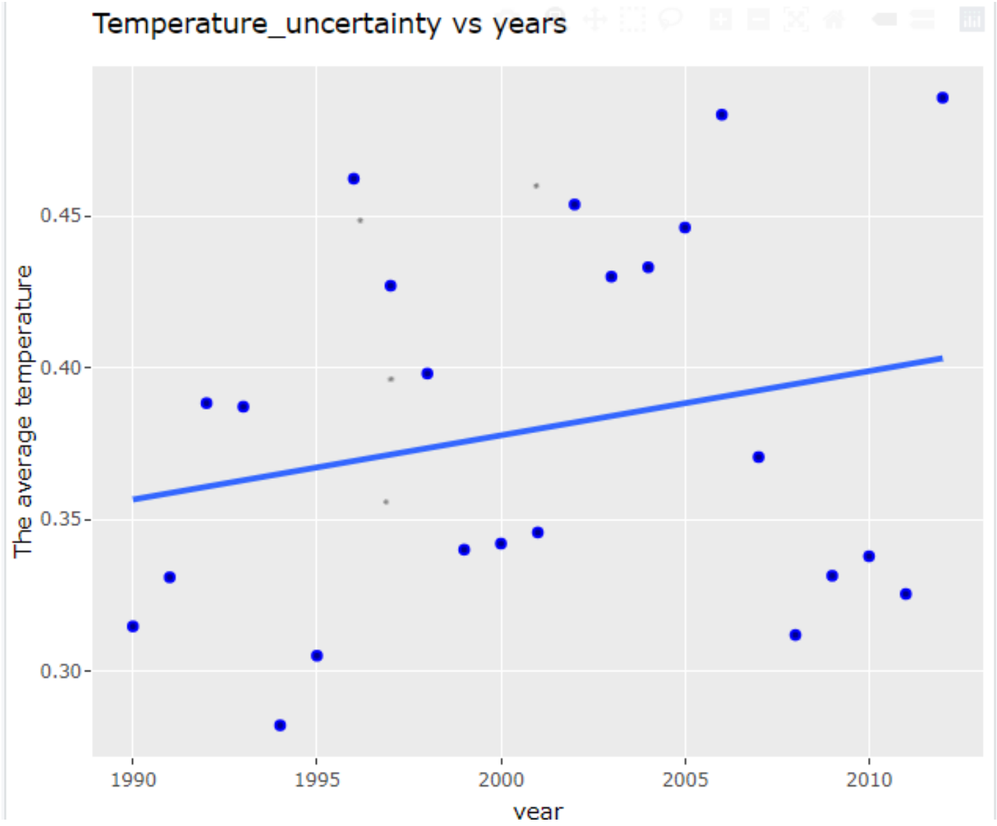
2015

Linear Regression Graph Between Year with Temperature, Emission Green House Gas

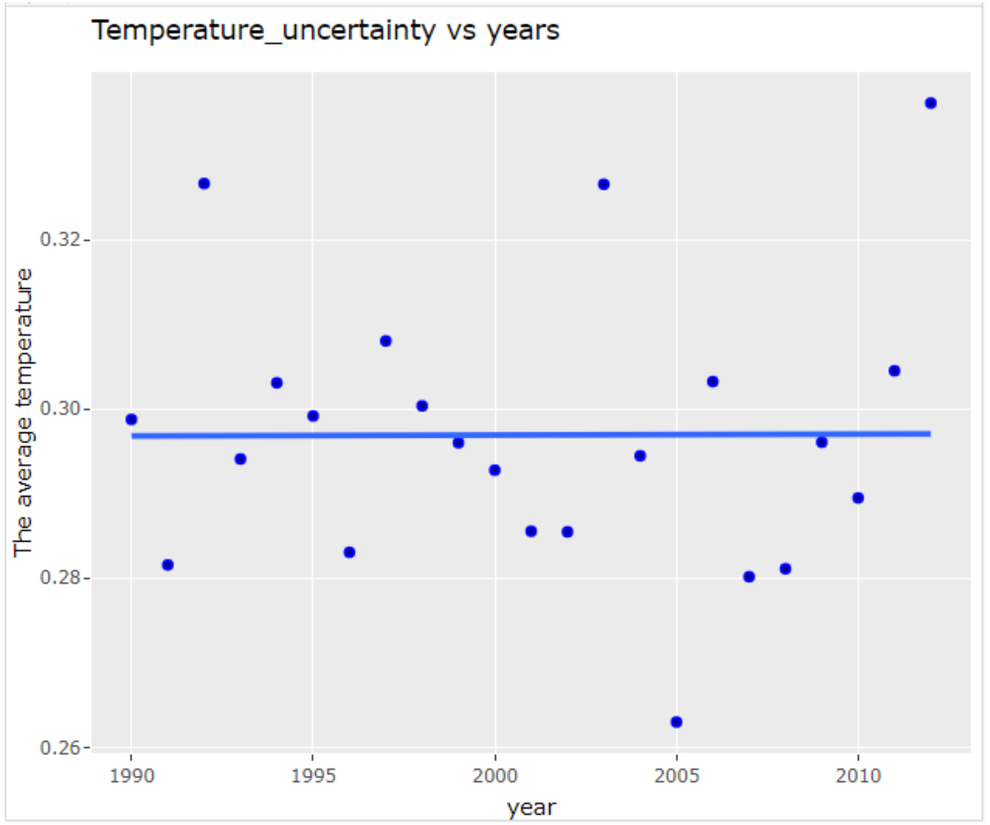


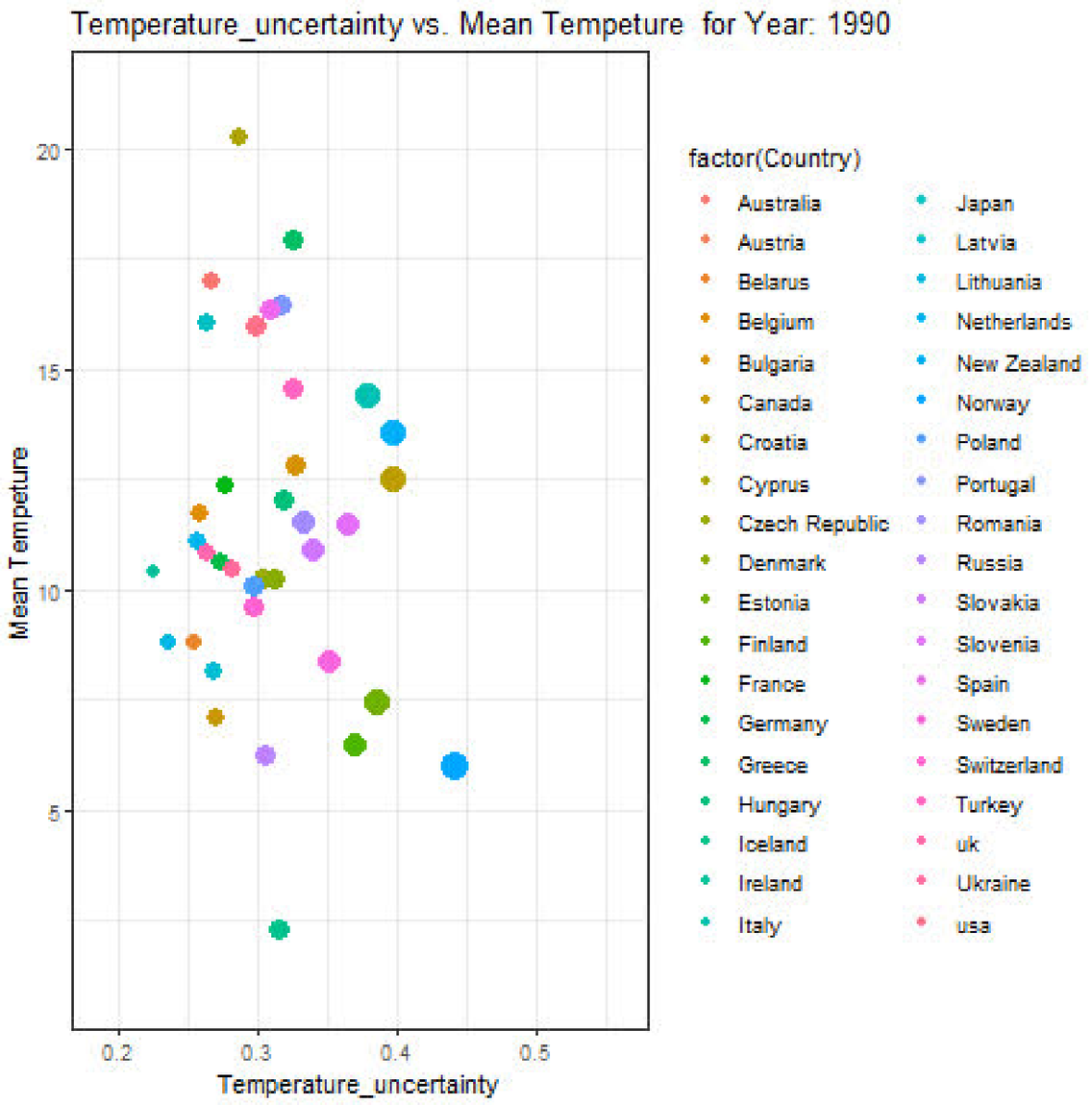
Linear Regression Graph Between Year with Temperature, Emission Green House Gas in Iceland





Linear Regression Graph Between Year with Temperature, Emission Green House Gas in US




Temperature_uncertainty vs. Mean Tempeture for Year: 1990
Mean Tempeture
20
15
10
5
0.2
0.3
0.4
0.5
Temperature_uncertainty
factor(Country)
Australia
Austria
Belarus
Belgium
Bulgaria
Canada
Croatia
Cyprus
Czech Republic
Denmark
Estonia
Finland
France
Germany
Greece
Hungary
Iceland
Ireland
Italy
Japan
Latvia
Lithuania
Netherlands
New Zealand
Norway
Poland
Portugal
Romania
Russia
Slovakia
Slovenia
Spain
Sweden
Switzerland
Turkey
uk
Ukraine
usa

Thank all for me

Thank you

Resource Page & Code

- https://www.kaggle.com/code/akhabash/cheatsheet-70-ggplot-charts
- https://www.kaggle.com/code/jonathanbouchet/greehouse-gas-studies