

University of Glasgow  
School of Mathematics and Statistics  
Data Analytics MSc (ODL)

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**Project**  
**Data Summary**  
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## 1 Data Summary

The data here presented contains:

- Electoral results for the Australian 2022 Federal Election, retrieved from the Australian Electoral Commissions website.
- Census 2021 Results,
- Other Statistical Information, retrieved by the {readabs} package.
- Sample meteorological data, collected by the {cropgrowdays} package.

## 2 Electoral Results

StateAb	DivisionID	DivisionNm	PollingPlaceID	PollingPlace	CandidateID	Surname	GivenNm	BallotPosition	Elected	HistoricElected	PartyAb	PartyNm	OrdinaryVotes	Swing
VIC	322	Macnamara	82,955	Albert Park	37,774	MYERS	John B	1	N	N	IND	Independent	19	2,20
VIC	322	Macnamara	82,955	Albert Park	36,736	HARKIN	Colleen	2	N	N	LP	Liberal	253	-6,08
VIC	322	Macnamara	82,955	Albert Park	36,436	BURNS	Josh	3	Y	Y	ALP	Australian Labor Party	246	0,09
VIC	322	Macnamara	82,955	Albert Park	37,779	ANNE	Debra	4	N	N	ON	Pauline Hanson's One Nation	23	2,66
VIC	322	Macnamara	82,955	Albert Park	37,007	MCCATHIE	Rob	5	N	N	LDP	Liberal Democrats	23	2,66
VIC	322	Macnamara	82,955	Albert Park	36,693	SCHULTZ	Ben	6	N	N	AJP	Animal Justice Party	26	1,20
VIC	322	Macnamara	82,955	Albert Park	36,538	HODGINS-MAY	Steph	7	N	N	GRN	The Greens	265	1,28
VIC	322	Macnamara	82,955	Albert Park	36,020	HICKEY	Jane Elizabeth	8	N	N	UAPP	United Australia Party	10	-0,87
VIC	322	Macnamara	82,955	Albert Park	999	Informal	Informal	999	N	N		Informal	31	-0,47
VIC	322	Macnamara	4,682	Alfred Square	37,774	MYERS	John B	1	N	N	IND	Independent	22	2,02
VIC	322	Macnamara	4,682	Alfred Square	36,736	HARKIN	Colleen	2	N	N	LP	Liberal	163	-6,13
VIC	322	Macnamara	4,682	Alfred Square	36,436	BURNS	Josh	3	Y	Y	ALP	Australian Labor Party	382	-0,95
VIC	322	Macnamara	4,682	Alfred Square	37,779	ANNE	Debra	4	N	N	ON	Pauline Hanson's One Nation	21	1,93
VIC	322	Macnamara	4,682	Alfred Square	37,007	MCCATHIE	Rob	5	N	N	LDP	Liberal Democrats	22	2,02
VIC	322	Macnamara	4,682	Alfred Square	36,693	SCHULTZ	Ben	6	N	N	AJP	Animal Justice Party	33	1,51
VIC	322	Macnamara	4,682	Alfred Square	36,538	HODGINS-MAY	Steph	7	N	N	GRN	The Greens	427	2,36
VIC	322	Macnamara	4,682	Alfred Square	36,020	HICKEY	Jane Elizabeth	8	N	N	UAPP	United Australia Party	17	0,12
VIC	322	Macnamara	4,682	Alfred Square	999	Informal	Informal	999	N	N		Informal	33	-1,43

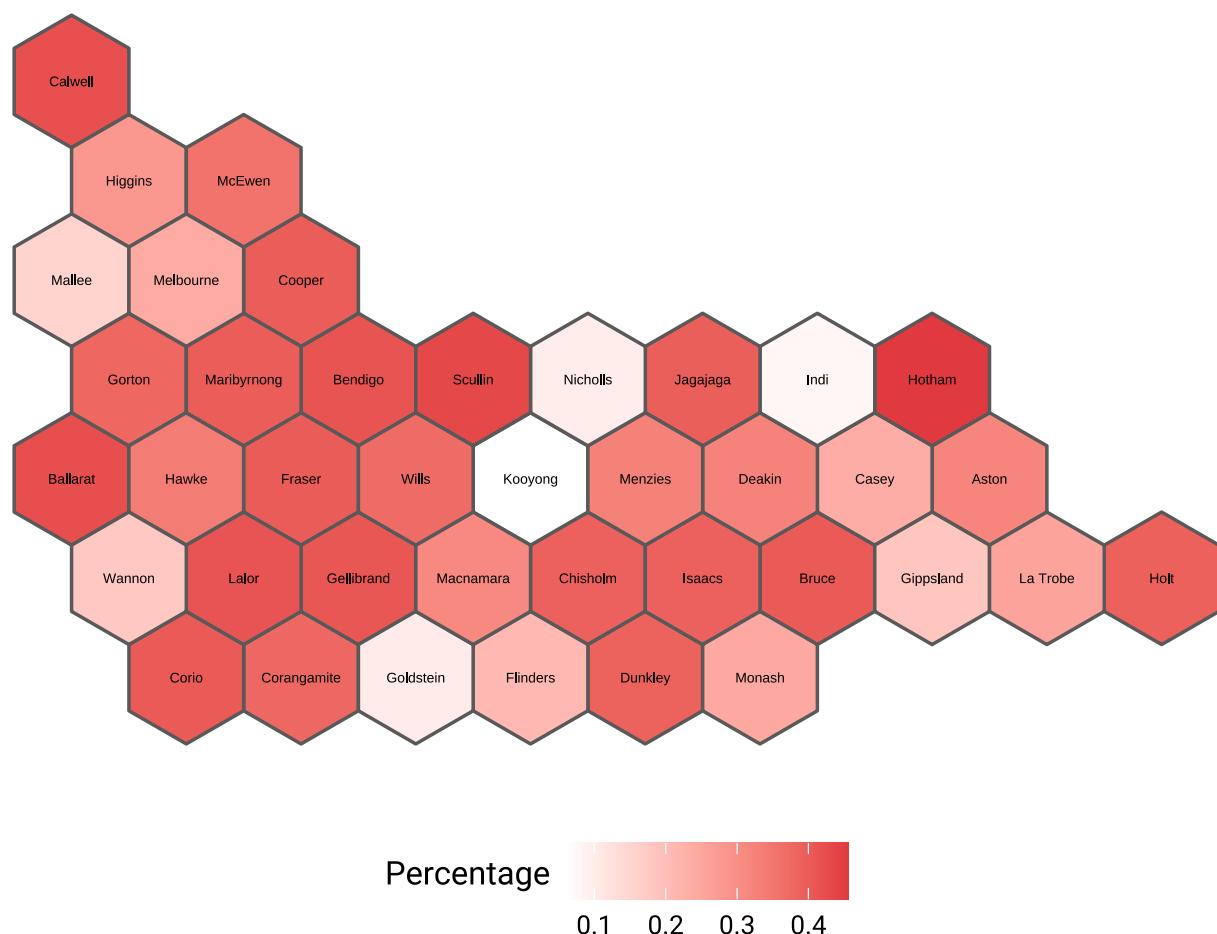
DivisionNm	PartyNm	primary_vote	primary_perc
Macnamara	Australian Labor Party	20,603	0.31159541
Macnamara	The Greens	20,478	0.30970493
Macnamara	Liberal	17,073	0.25820844
Macnamara	Informal	2,325	0.03516281
Macnamara	United Australia Party	1,277	0.01931308
Macnamara	Liberal Democrats	1,254	0.01896523
Macnamara	Animal Justice Party	1,110	0.01678740
Macnamara	Independent	1,102	0.01666641
Macnamara	Pauline Hanson's One Nation	899	0.01359629

```

## Reading layer `vic_hex` from data source
##   `/Volumes/GoogleDrive/My Drive/GitHub/MSc_DA_Project/2. Meetings/1.
##   Meeting/vic_hex.geojson'
##   using driver `GeoJSON'
## Simple feature collection with 39 features and 17 fields
## Geometry type: POLYGON
## Dimension:      XY
## Bounding box:  xmin: 141.5202 ymin: -38.77708 xmax: 149.8347 ymax:
##                 -33.74814
## Geodetic CRS:  GDA94

```

## Vote in Victoria - Labor Party



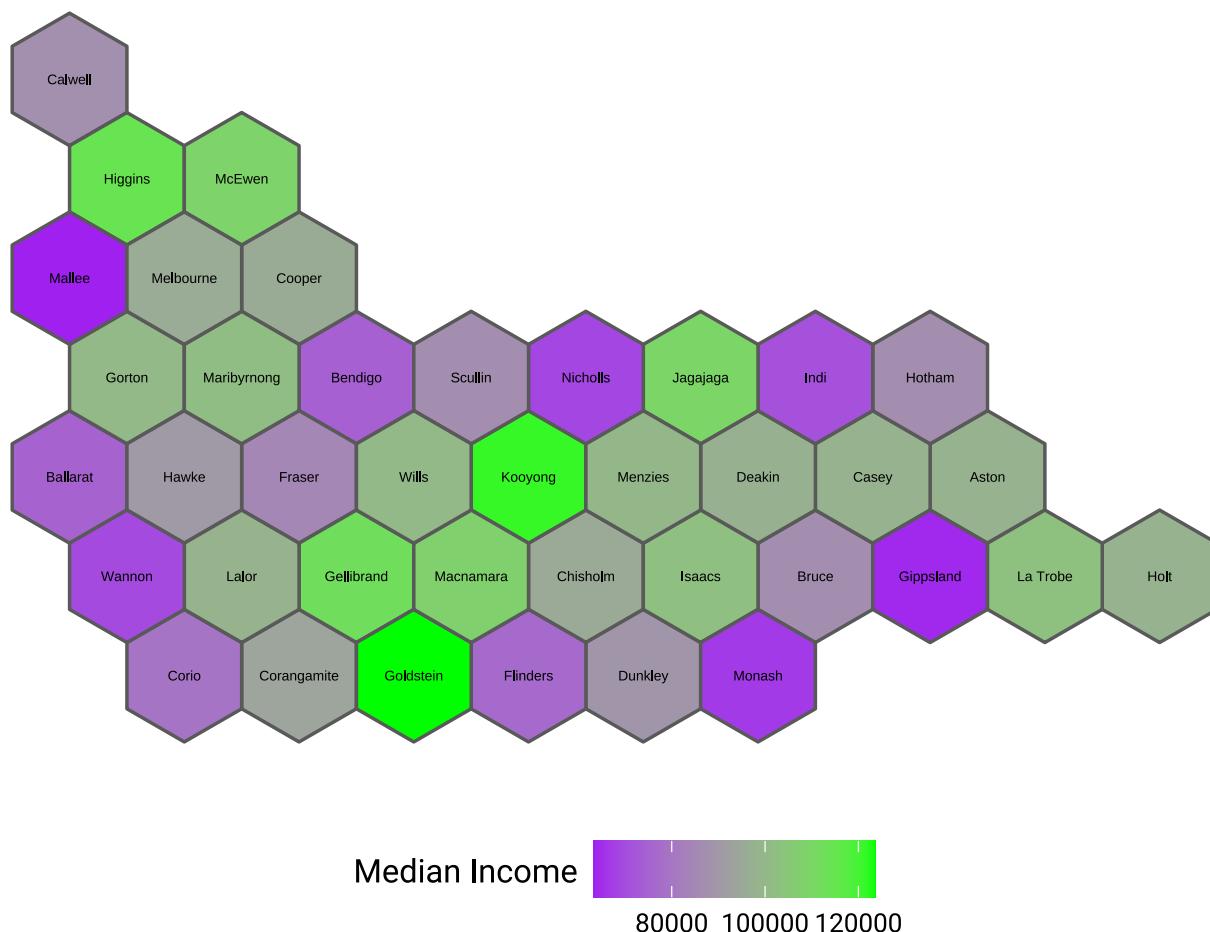
### 3 Census 2021 Results

Table Number	Table Name	Table population	...A	...S
G01	Selected Person Characteristics by Sex	Persons		
G02	Selected Medians and Averages	Persons (excludes overseas visitors)		
G03	Place of Usual Residence by Place of Enumeration on Census Night by Age	Persons		
G04	Age by Sex	Persons aged 15 years and over		
G05	Registered Marital Status by Age by Sex	Persons aged 15 years and over		
G06	Social Marital Status by Age by Sex	Persons		
G07	Indigenous Status by Age by Sex	Responses and persons		
G08	Ancestry by Country of Birth of Parents	Persons		
G09	Country of Birth of Parents by Sex	Persons born overseas		
G10	Country of Birth of Person by Year of Arrival in Australia	Persons born overseas		
G11	Proficiency in Spoken English by Year of Arrival in Australia by Age	Dependent children in couple families		
G12	Proficiency in Spoken English of Parents by Age of Dependent Children	Persons		
G13	Language Used at Home by Proficiency in Spoken English by Sex	Persons		
G14	Religious Affiliation by Sex	Persons attending an educational institution		
G15	Type of Educational Institution Attending (Full-Time/Part-Time Student Status by Age) by Sex	Persons aged 15 years and over who are no longer attending primary or secondary school		
G16	Highest Year of School Completed by Age by Sex	Persons aged 15 years and over		
G17	Total Personal Income (Weekly) by Age by Sex	Persons		
G18	Core Activity Need for Assistance by Age by Sex	Persons		
G19	Type of Long-Term Health Condition by Age by Sex	Persons		
G20	Count of Selected Long-Term Health Condition by Age by Sex	Persons		
G21	Type of Long-Term Health Condition by Selected Person Characteristics	Persons		
G22	Australian Defence Force Service by Age by Sex	Persons aged 15 years and over		
G23	Voluntary Work for an Organisation or Group by Age by Sex	Persons aged 15 years and over		
G24	Unpaid Care Work for an Organisation or Group by Number of Hours by Age by Sex	Persons aged 15 years and over		
G25	Unpaid Assistance to a Person with a Disability by Age by Sex	Persons aged 15 years and over		
G26	Unpaid Child Care by Age by Sex	Persons aged 15 years and over		
G27	Relationship in Household by Age by Sex	Persons in occupied private dwellings		
G28	Number of Children Ever Born	Females aged 15 years and over		
G29	Family Composition	Families and persons in families in occupied private dwellings		
G30	Family Composition and Country of Birth of Parents by Age of Dependent Children	Dependent children		
G31	Family Structure	Couple families with children		
G32	Total Family Income (Weekly) by Family Composition	Families in family households		
G33	Total Household Income (Weekly) by Household Composition	Occupied private dwellings		
G34	Number of Motor Vehicles by Dwellings	Occupied private dwellings		
G35	Household Composition by Number of Persons Usually Resident	Occupied private dwellings		
G36	Dwelling Structure	Private dwellings and persons in occupied private dwellings		
G37	Tenure and Landlord Type by Dwelling Structure	Occupied private dwellings		
G38	Mortgage Repayment (Monthly) by Dwelling Structure	Occupied private dwellings being purchased		
G39	Mortgage Repayment (Monthly) by Family Composition	Families in occupied private dwellings being purchased		
G40	Home Type (Type of Dwelling)	Occupied private dwellings being rented		
G41	Dwelling Structure by Number of Bedrooms	Occupied private dwellings		
G42	Dwelling Structure by Household Composition and Family Composition	Occupied private dwellings		
G43	Selected Labour Force Education and Migration Characteristics by Sex	Persons		
G44	Place of Usual Residence 1 Year Ago by Sex	Persons aged 1 year and over		
G45	Place of Usual Residence 5 Years Ago by Sex	Persons aged 5 years and over		
G46	Labour Force Status by Age by Sex	Persons aged 15 years and over		
G47	Labour Force Status by Sex of Parents by Age of Dependent Children for Couple Families	Dependent children in couple families		
G48	Labour Force Status by Sex of Parent by Age of Dependent Children for One Parent Families	Dependent children in one parent families		
G49	Highest Non-School Qualification: Level of Education by Age by Sex	Persons aged 15 years and over with a non-school qualification		
G50	Highest Non-School Qualification: Field of Study by Age by Sex	Persons aged 15 years and over with a non-school qualification		
G51	Highest Non-School Qualification: Field of Study by Occupation by Sex	Employed persons aged 15 years and over with a non-school qualification		
G52	Highest Non-School Qualification: Level of Education by Occupation by Sex	Employed persons aged 15 years and over with a non-school qualification		
G53	Highest Non-School Qualification: Level of Education by Industry of Employment by Sex	Employed persons aged 15 years and over with a non-school qualification		
G54	Industry of Employment by Age by Sex	Employed persons aged 15 years and over		
G55	Industry of Employment by Sex	Employed persons aged 15 years and over		
G56	Industry of Employment by Occupation	Employed persons aged 15 years and over		
G57	Total Family Income (Monthly) by Labour Force Status of Partner for Couple Families with no Children	Couple families with no children		
G58	Total Family Income (Weekly) by Labour Force Status of Parents/Partners for Couple Families with Children	One parent families		
G59	Total Family Income (Weekly) by Labour Force Status of Parent for One Parent Families	Employed persons aged 15 years and over		
G60	Occupation by Age by Sex	Employed persons aged 15 years and over		
G61	Occupation by Hours Worked by Sex	Employed persons aged 15 years and over		
G62	Method of Travel to Work by Sex	Employed persons aged 15 years and over		

Data comes already aggregated by electoral divisions, e.g.:

CED_NAME21	medianTotalHouseholdIncome
Banks	99,996
Barton	100,724
Bennelong	110,448
Berowra	135,668
Blaxland	75,504
Bradfield	137,488

## Median House Income in Victoria- 2021 Census



### 4 Weather Data

```
## # A tibble: 27,637 x 10
##   year   day radn  maxt  mint  rain  evap    vp  code date_met
##   <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <date>
## 1 1944    275     7   21.9    9.5     0    2.6  13.2 333263 1944-10-01
## 2 1944    276   14.4   13.9    6.6    19.3    2.2  10.2 333263 1944-10-02
## 3 1944    277   23.2   15.2     5    4.5    3.3   9.2 333263 1944-10-03
## 4 1944    278   12.4   18.9    9.5    0.9    2.8  11.2 333263 1944-10-04
## 5 1944    279   14.4   17.7   10.2    0.9    2.8  11.3 333263 1944-10-05
## 6 1944    280   20.1    19     8.7    0    3.4  11.7 333263 1944-10-06
## 7 1944    281   12.4   26.1    8.6    0    4.4   12 333263 1944-10-07
## 8 1944    282   11.8   32.1   11.4    0    6.6  10.9 333263 1944-10-08
## 9 1944    283   23.8   23.8   12.7    0    4.9  11.8 333263 1944-10-09
## 10 1944   284   20.6   19.4    9.4    0    3.6  11.6 333263 1944-10-10
## # ... with 27,627 more rows
```