# The best Canadian state to live, based on the individual income statistics

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## Background

This is an example of Shiny web app with associated supporting documentation, aiming to answer to the following question:

What is the best Canadian state to live, according to the desired salary?

User can **Enter the desired salary**, and after hitting **Submit**, the dashboard will show number of tax filers per each province which obtained the User inserted salary. In addition, user can see other important information: **Income per Source**, **Income per Range**, as well as three Key Performance Indicator (KPI), namely **Top Income Range**, **Total Number of Tax Filers**, top **Predicted Income** per source.

Both ui.R and server.R are available in the github repository: https://github.com/lilianabraescu/ Developing-Data-Products-The-best-Canadian-state-to-live

#### Data

For this web app, data representing *Individual statistics by tax filing method for all returns filed, economic characteristics, 2014 tax year, Canada Revenue Agency* - recorded by the *Open Data Government of Canada* and released at 2018-06-27 (downloaded on January 25, 2019): https:

//www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=1110004601 were sorted, cleaned and manipulated.

The finalized data file used for this app has 16,635 observations and 5 variables:

- ► State has 12 categories: AB, BC, MB, NB, NL, NS, NT, ON, PE, QC, SK, YT.
- ▶ Source.Income has 7 categories: Employment, Investment, Pension, Self-employment, Other sourses of income, Multiple sources of income, No income.

#### More about variables

##

##

'data.frame':

\$ Average.Income

- ► Income.Range has 4 categories: Less than \$25,000; Between \$25,000 and \$49,999; Between \$50,000 and \$99,999; \$100,000 and Above.
- ▶ Number.Tax.Filler for 2014 tax year.
- ► **Average.Income** was used for building reactive output, in order to have a numeric value for income, which can be compared with salary inserted by the user.

```
income <- read.csv("Income_Canada_2014.csv")
str(income)</pre>
```

```
## $ State : Factor w/ 12 levels "AB", "BC", "MI
## $ Source.Income : Factor w/ 7 levels "Employment",
## $ Income.Range : Factor w/ 4 levels "$100,000 and
## $ Number.Tax.Fillers: int 3310 410 2920 800 2760 990 8
```

16635 obs. of 5 variables:

: int 20000 20000 37000 37000 7500

### App Overview

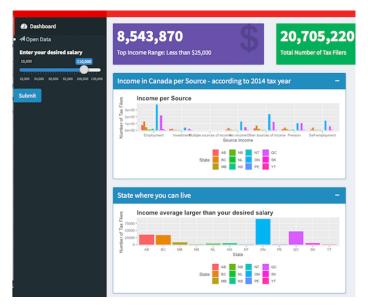


Figure 1: Top 3 Canadian states with income average larger than \$110,000