

# DATA 624: PREDICTIVE ANALYTICS HW3

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## Instructions

Do exercises 5.1, 5.2, 5.3, 5.4 and 5.7 in the Hyndman book. Please submit your [Rpubs link](#) as well as your .pdf file showing your run code.

```
library(dplyr)
library(stringr)
library(fpp3)
library(cowplot)
```

## 5.1

Produce forecasts for the following series using whichever of `NAIVE(y)`, `SNAIVE(y)` or `RW(y ~ drift())` is more appropriate in each case:

i

Australian Population (`global_economy`)

```
df_aus <- global_economy %>%
  filter(Country == "Australia")

head(df_aus)
```

```
## # A tsibble: 6 x 9 [1Y]
## # Key:      Country [1]
##   Country   Code  Year      GDP Growth    CPI Imports Exports Population
##   <fct>     <fct> <dbl>      <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
## 1 Australia AUS   1960 18573188487. NA      7.96  14.1  13.0 10276477
## 2 Australia AUS   1961 19648336880.  2.49  8.14  15.0  12.4 10483000
## 3 Australia AUS   1962 19888005376.  1.30  8.12  12.6  13.9 10742000
## 4 Australia AUS   1963 21501847911.  6.21  8.17  13.8  13.0 10950000
## 5 Australia AUS   1964 23758539590.  6.98  8.40  13.8  14.9 11167000
## 6 Australia AUS   1965 25931235301.  5.98  8.69  15.3  13.2 11388000
```