

Week-9: Webpage + Diary Entry

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Question 1:

(1) What is the topic that you have finalized? (Answer in 1 or 2 sentences)

Answer: I have finalised and chosen to explore the changes in the prices of resale flats in Singapore. The goal is to analyse the nominal price growth from 1990 to 2023, and compare it with the adjusted inflation rate to understand the real increase in flat prices over the years

Question 2:

(2) What are the data sources that you have curated so far? (Answer 1 or 2 sentences).

Answer: I have curated two datasets from <https://beta.data.gov.sg/collections/189/view> – Singapore’s open data collection. The one data set contains transacted prices of resale flats from 1990 to 1999 and the other contains the resale prices from January 2017 onwards with an additional column “remaining_lease” for the lease duration

```
library(tidyverse)
```

```
## — Attaching core tidyverse packages — tidyverse 2.0.0 —
## ✓ dplyr      1.1.2      ✓ readr      2.1.4
## ✓ forcats    1.0.0      ✓ stringr   1.5.0
## ✓ ggplot2     3.4.3      ✓ tibble     3.2.1
## ✓ lubridate  1.9.2      ✓ tidyr      1.3.0
## ✓ purrr      1.0.2
## — Conflicts — tidyverse_conflicts() —
## ✗ dplyr::filter() masks stats::filter()
## ✗ dplyr::lag()     masks stats::lag()
## ⓘ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
data_1990_1999 <- read.csv("ResaleFlatPricesBasedonApprovalDate19901999.csv")
data_2017_onwards <- read.csv("ResaleflatpricesbasedonregistrationdatefromJan2017onwards-2.csv")
```

```
head(data_1990_1999, 10)
```

```
##      month      town flat_type block      street_name storey_range
## 1 1990-01 ANG MO KIO 1 ROOM 309 ANG MO KIO AVE 1 10 TO 12
## 2 1990-01 ANG MO KIO 1 ROOM 309 ANG MO KIO AVE 1 04 TO 06
## 3 1990-01 ANG MO KIO 1 ROOM 309 ANG MO KIO AVE 1 10 TO 12
## 4 1990-01 ANG MO KIO 1 ROOM 309 ANG MO KIO AVE 1 07 TO 09
## 5 1990-01 ANG MO KIO 3 ROOM 216 ANG MO KIO AVE 1 04 TO 06
## 6 1990-01 ANG MO KIO 3 ROOM 211 ANG MO KIO AVE 3 01 TO 03
## 7 1990-01 ANG MO KIO 3 ROOM 202 ANG MO KIO AVE 3 07 TO 09
## 8 1990-01 ANG MO KIO 3 ROOM 235 ANG MO KIO AVE 3 10 TO 12
## 9 1990-01 ANG MO KIO 3 ROOM 235 ANG MO KIO AVE 3 04 TO 06
## 10 1990-01 ANG MO KIO 3 ROOM 232 ANG MO KIO AVE 3 01 TO 03
##      floor_area_sqm      flat_model lease_commence_date resale_price
## 1          31      IMPROVED          1977          9000
## 2          31      IMPROVED          1977          6000
## 3          31      IMPROVED          1977          8000
```

```
## 4          31      IMPROVED          1977      6000
## 5          73 NEW GENERATION          1976     47200
## 6          67 NEW GENERATION          1977     46000
## 7          67 NEW GENERATION          1977     42000
## 8          67 NEW GENERATION          1977     38000
## 9          67 NEW GENERATION          1977     40000
## 10         67 NEW GENERATION          1977     47000
```

```
head(data_2017_onwards, 10)
```

```
##      month      town flat_type block      street_name storey_range
## 1  2017-01 ANG MO KIO    2 ROOM   406 ANG MO KIO AVE 10      10 TO 12
## 2  2017-01 ANG MO KIO    3 ROOM   108 ANG MO KIO AVE 4       01 TO 03
## 3  2017-01 ANG MO KIO    3 ROOM   602 ANG MO KIO AVE 5       01 TO 03
## 4  2017-01 ANG MO KIO    3 ROOM   465 ANG MO KIO AVE 10      04 TO 06
## 5  2017-01 ANG MO KIO    3 ROOM   601 ANG MO KIO AVE 5       01 TO 03
## 6  2017-01 ANG MO KIO    3 ROOM   150 ANG MO KIO AVE 5       01 TO 03
## 7  2017-01 ANG MO KIO    3 ROOM   447 ANG MO KIO AVE 10      04 TO 06
## 8  2017-01 ANG MO KIO    3 ROOM   218 ANG MO KIO AVE 1       04 TO 06
## 9  2017-01 ANG MO KIO    3 ROOM   447 ANG MO KIO AVE 10      04 TO 06
## 10 2017-01 ANG MO KIO    3 ROOM   571 ANG MO KIO AVE 3       01 TO 03
##      floor_area_sqm      flat_model lease_commence_date      remaining_lease
## 1          44      Improved          1979 61 years 04 months
## 2          67 New Generation          1978 60 years 07 months
## 3          67 New Generation          1980 62 years 05 months
## 4          68 New Generation          1980 62 years 01 month
## 5          67 New Generation          1980 62 years 05 months
## 6          68 New Generation          1981        63 years
## 7          68 New Generation          1979 61 years 06 months
## 8          67 New Generation          1976 58 years 04 months
## 9          68 New Generation          1979 61 years 06 months
## 10         67 New Generation          1979 61 years 04 months
##      resale_price
## 1          232000
## 2          250000
## 3          262000
## 4          265000
## 5          265000
## 6          275000
## 7          280000
## 8          285000
## 9          285000
## 10         285000
```