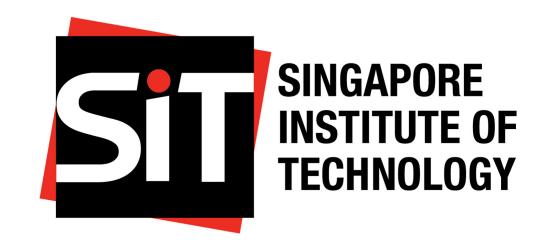
Percent Change In Consumer Price Index (CPI) of year 2023

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INTRODUCTION

Inflation in Singapore has moderated over 2023, prices are still above pre-pandemic levels and expected to remain elevated in 2024 after the 7 per cent rise in public transport fares, a second round of goods and services tax (GST) hike and carbon tax adjustments kick in.¹. The average price increase in 2023 ranged between 2 per cent for household durables and services, and just over 6 per cent for food, transport, recreation and cultures. Further more, there are 10 items that have on average seen double-digit price increases in 2023.²

Economist states that the inflation in 2023 was largely from external factors such as the tre-opening of economies, the impact of the Ukraine-Russia war and the post-Covid-19 supply chain disruption and restructuring. The economist however are not concerned due to the central bank's strong Singapore dollar policy to help manage imported inflation. This would help keep the incoming price increases manageable. Overall, however, the recent GST hike and rise in consumper prices will affect individuals from different income groups. Even with the government's support packages, the lower- to middle-income are expected to make some adjustments to their lifestyles.³

PREVIOUS VISUALIZATION

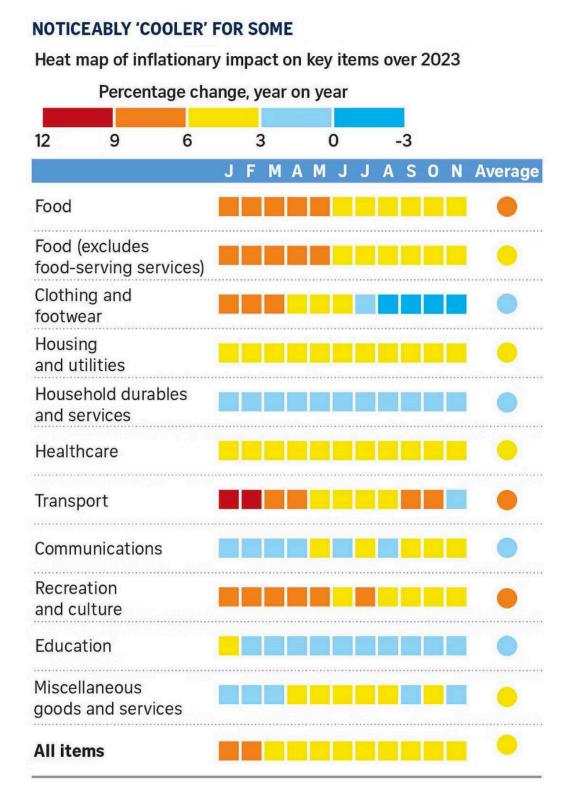


Figure 1: Heat map of inflationary impact on key itens iver 2023, published by the Straights Times.

STRENGTHS

- The heat map effectively highlights the items and the month when inflation effects were most pronounced.
- The color legend provides a clear indication of the inflation rate for each item and month.
- The infotip provides additional information about the inflation rate for each item and month.

SUGGESTED IMPROVEMENTS



IMPLEMENTATION

Data

- Percent change in consumer price index over corresponding period of previous year, 2019 as base year, Annual.⁴
- Percent change in consumer price index over corresponding period of previous year, 2019 as base year, Monthly 5

Software

We used the Quarto publication framework and the R programming language, along with the following third-party packages:

- *tidyverse* for data transformation, including *ggplot2* for visualization based on the grammar of graphics
- lubridate insert description here

IMPROVED VISUALIZATION

Warning: Using `size` aesthetic for lines was deprecated in ggplot2 3.4.0. i Please use `linewidth` instead.

⁴https://tablebuilder.singstat.gov.sg/table/TS/M212941 ⁵https://tablebuilder.singstat.gov.sg/table/TS/M212911

Percent Change In Consumer Price Index (CPI) From 2019

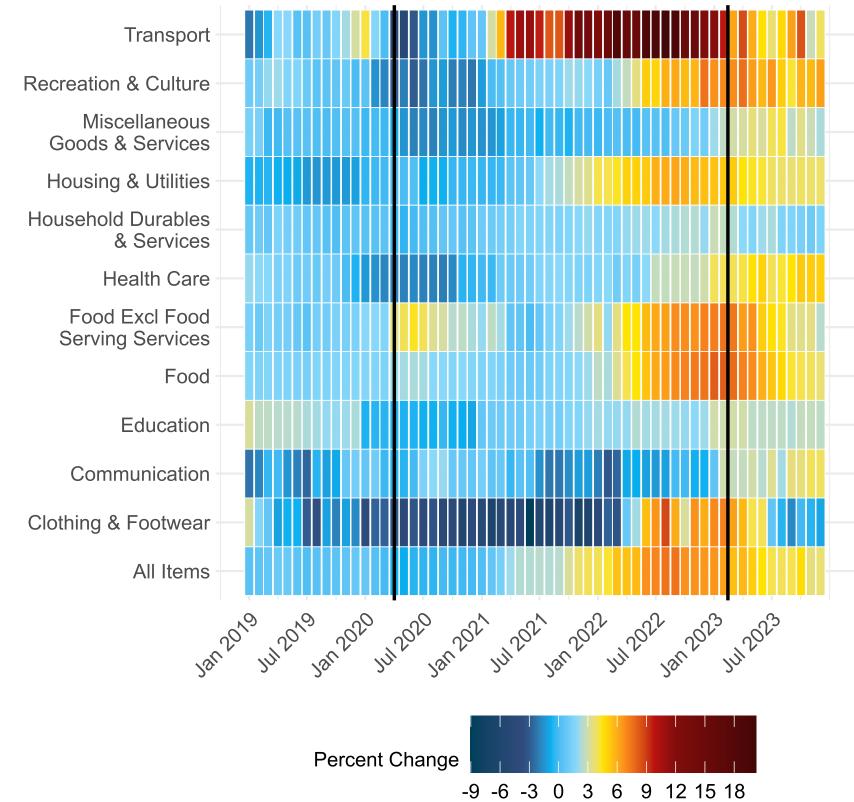


Figure 2: Revised visualization of inflation increase in Singapore by essential items and year/month.

FURTHER SUGGESTIONS FOR INTERACTIVITY

CONCLUSION

¹https://www.straitstimes.com/business/prices-in-s-pore-seen-moderating-but-likely-to-remain-above-pandemic-levels-in-2024

 $^{^2} https://www.straitstimes.com/business/prices-in-s-pore-seen-moderating-but-likely-to-remain-above-pandemic-levels-in-2024$

³https://www.straitstimes.com/business/prices-in-s-pore-seen-moderating-but-likely-to-remain-above-pandemic-levels-in-2024