



HK Financial Budget

What could we do with the Open Data?



Background

- At the beginning of each Fiscal Year (~Feb), HK Financial Secretary will give his annual budget speech
- Budget Plan for the coming year will be announced (i.e. 2018-2019)
- Website: <https://www.budget.gov.hk/2018/eng/index.html>
- They are Open Data, PDFs available starting from Year 2000
- Detail CSVs available starting from Year 2015



My Project on hand

- Initiated by a previous hackathon back in 2015, I started to work on the gov't budget
- My humble initiative (by "R") to consolidate and present the financial budget data to general public
- It's Halfway done
 - CSV file processing -> Almost Done
 - PDF only (2014 and before) -> Not Started due to technical limitation
- CSV processing code
 - <https://github.com/LRb-hk/budget>
- Primitive Front-end
 - (code) https://github.com/LRb-hk/Shiny_App2_test
 - (webapp) https://lrb-hk.shinyapps.io/hk_govt_financial_budget/



Challenges

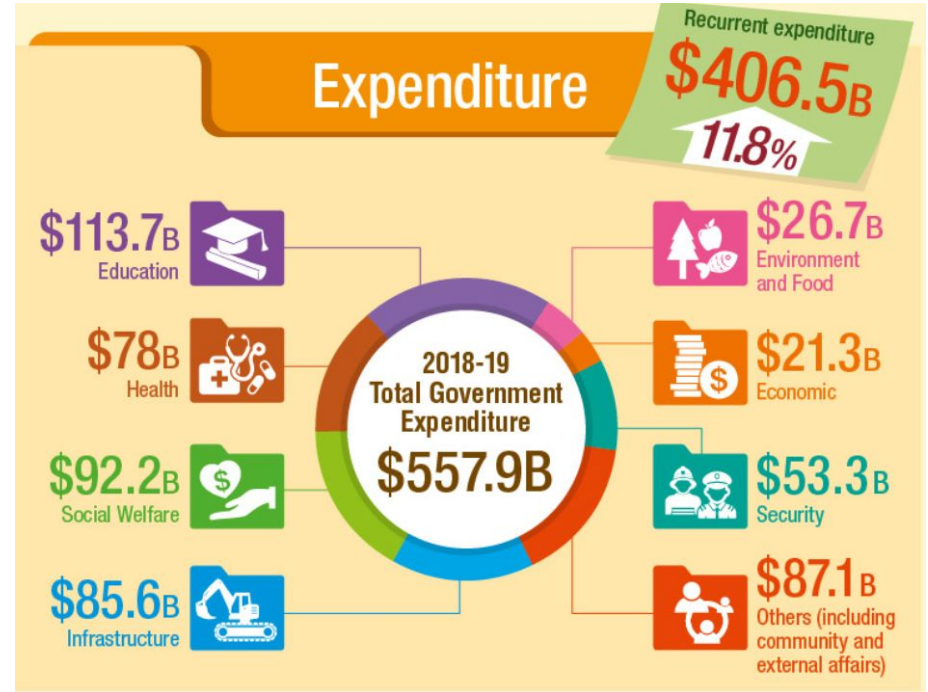
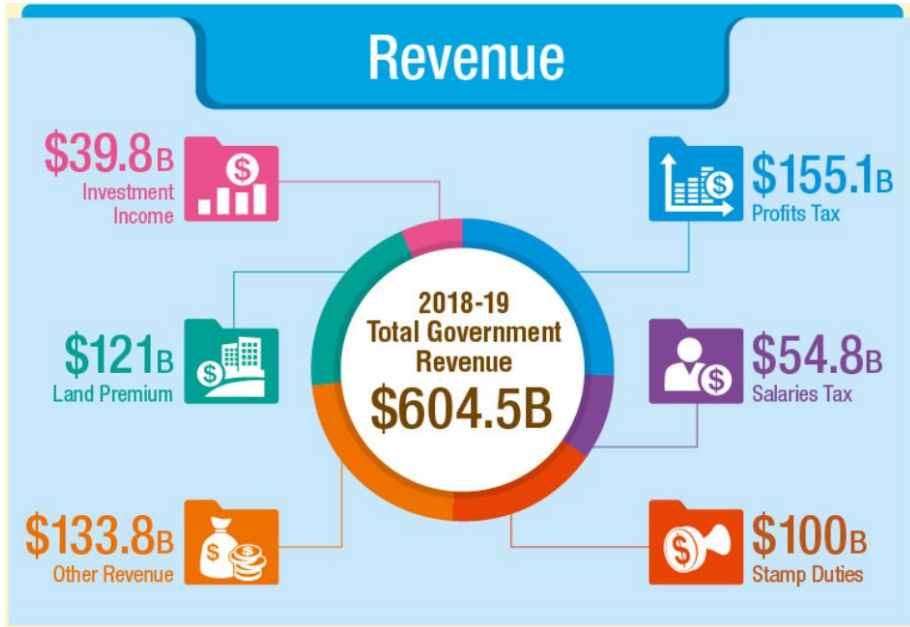
- PDF by Government is not machine friendly
- Basic financial knowledge is required (e.g. Balance vs Income)
- QC hasn't been completed
- I only know R... (and Stack Overflow is my life saving rope)



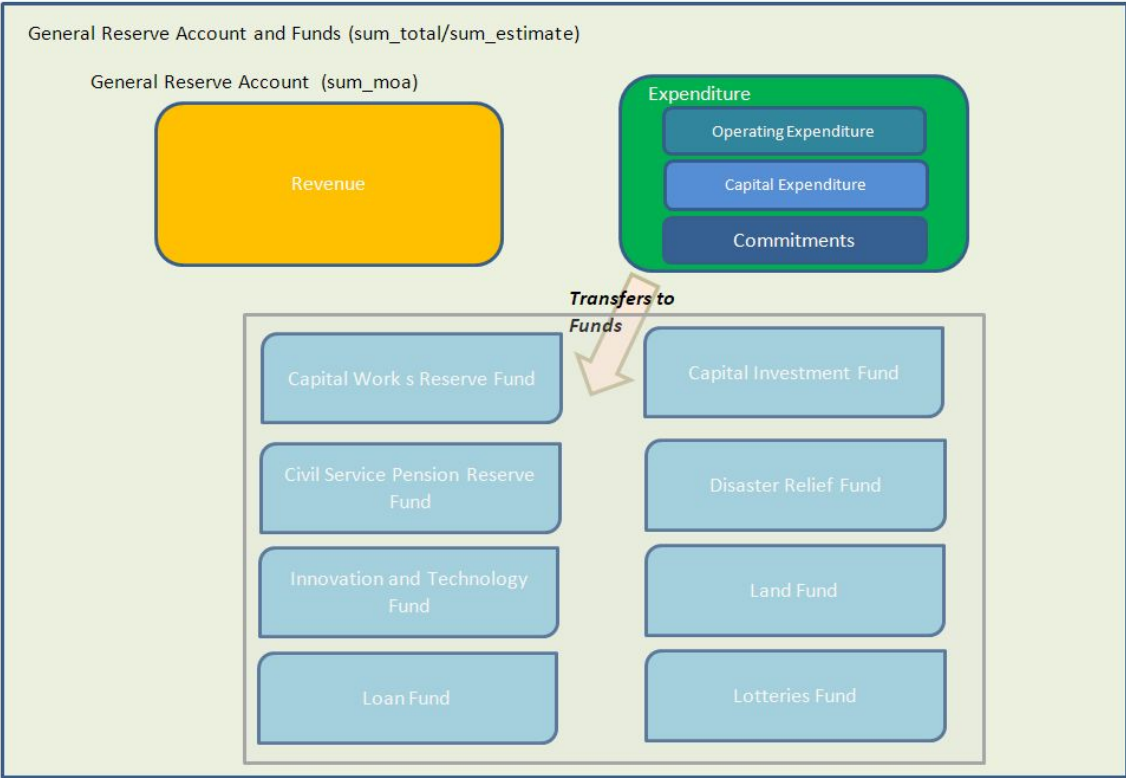
Starting Point

- Raw PDFs of 2004 - 2018 (downloaded)
- Raw CSVs (downloaded)
- Processed Datasets of 2015-2018 (4 years)
- Reference links to historical government budgets

HK Government Budget 2018-19



Government Budget Components





Objectives for today

- Proposal #1
 - Extract the figures stored in PDFs from 2000-2014, and plug them back into the Master Dataset
- Proposal #2
 - Creating easy to use (*and sustainable*) Visualizations (require a lot of thoughts)
 - => General public could understand and use the Budget figures with ease