

STAT3622 Homework 1: Hong Kong Population Pyramid

Date: October 9, 2017

Submit in HTML format by email to Jason You on or before October 22, 2017. You also need to supplement the codes for reproducing your results during grading.

Data source: Hong Kong population data by age group and sex from Census and Statistics Department; alternative copy from STAT3622/Quiz1 (CSV file)

A. (20%) Summarize numerically a) Total population over the years; b) Total population by gender over the years; c) Total population by age group over the years; d) Total population by age group and gender over the years.

B. (40%) Use R:base, R:lattice, or R:ggplot2 tools to visualize your results in A);

C. (40%) Use R:magick to generate the animated population pyramids as in Lecture 6.