# An introduction to R using the tidyverse

@ BC Stats

Charlotte Wickham

July 2018 cwickham@gmail.com

### Introduction

# HELLO my name is

# Charlotte

### Your Turn

Introduce yourselves to your neighbours:

Who are you?

What do you do with data?

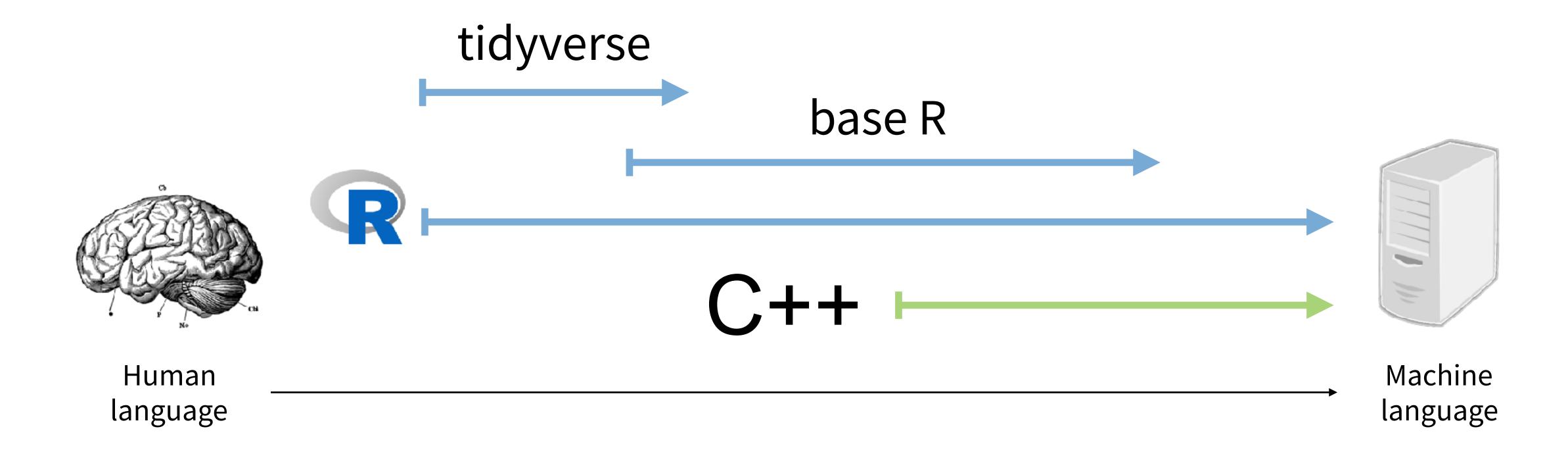
How would you describe your R experience?

## Day 1

Introduction & Getting Started	1:00 - 2:45
Afternoon Break	2:45 - 3:00
Data Basics	3:00 - 4:30

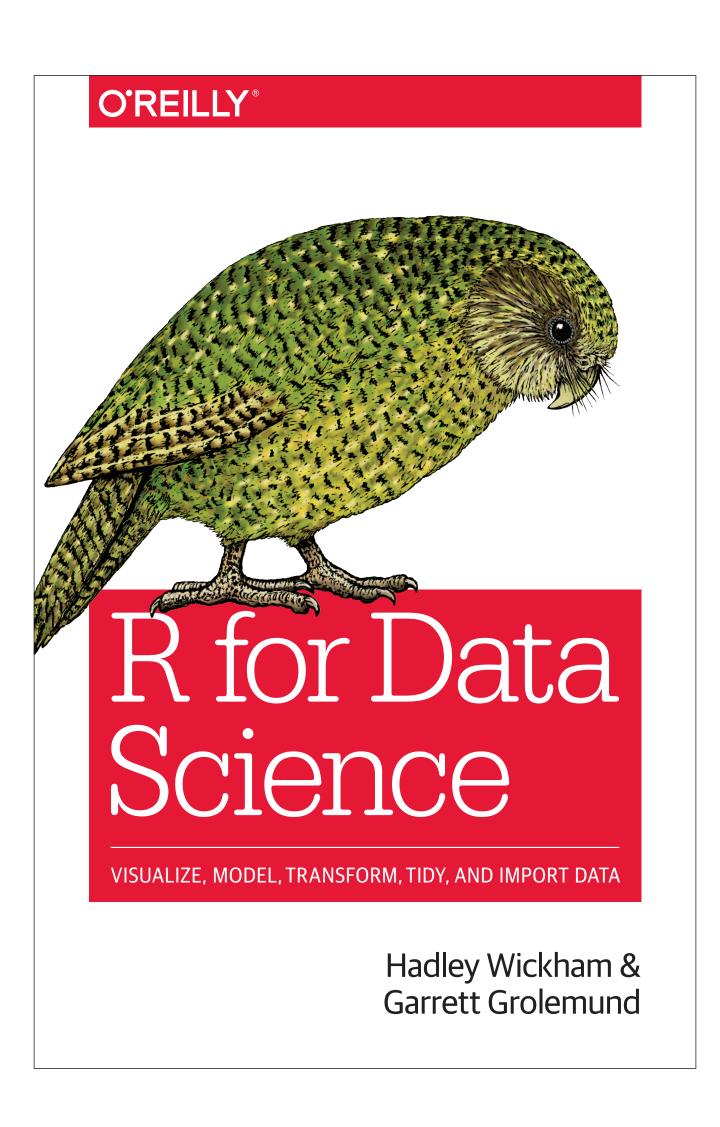
# Mhy R?

### R - A computer language for scientists



#### Online at:

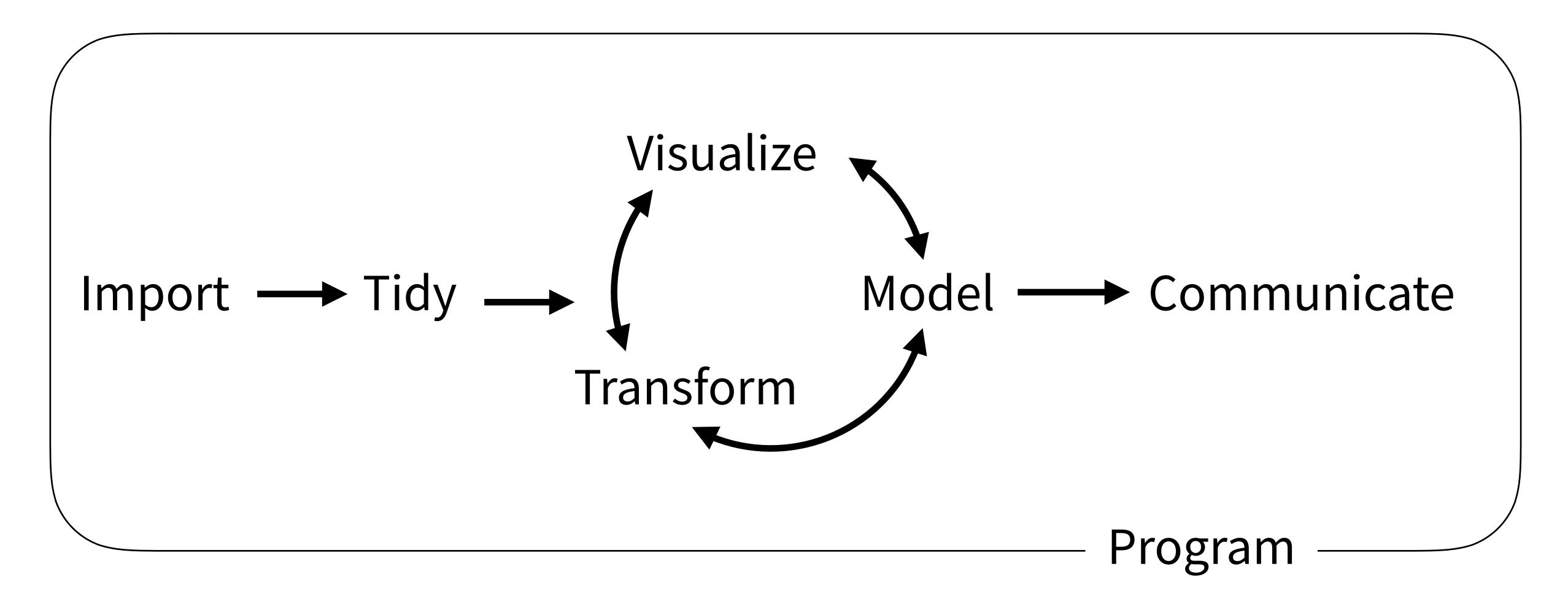
http://r4ds.had.co.nz/













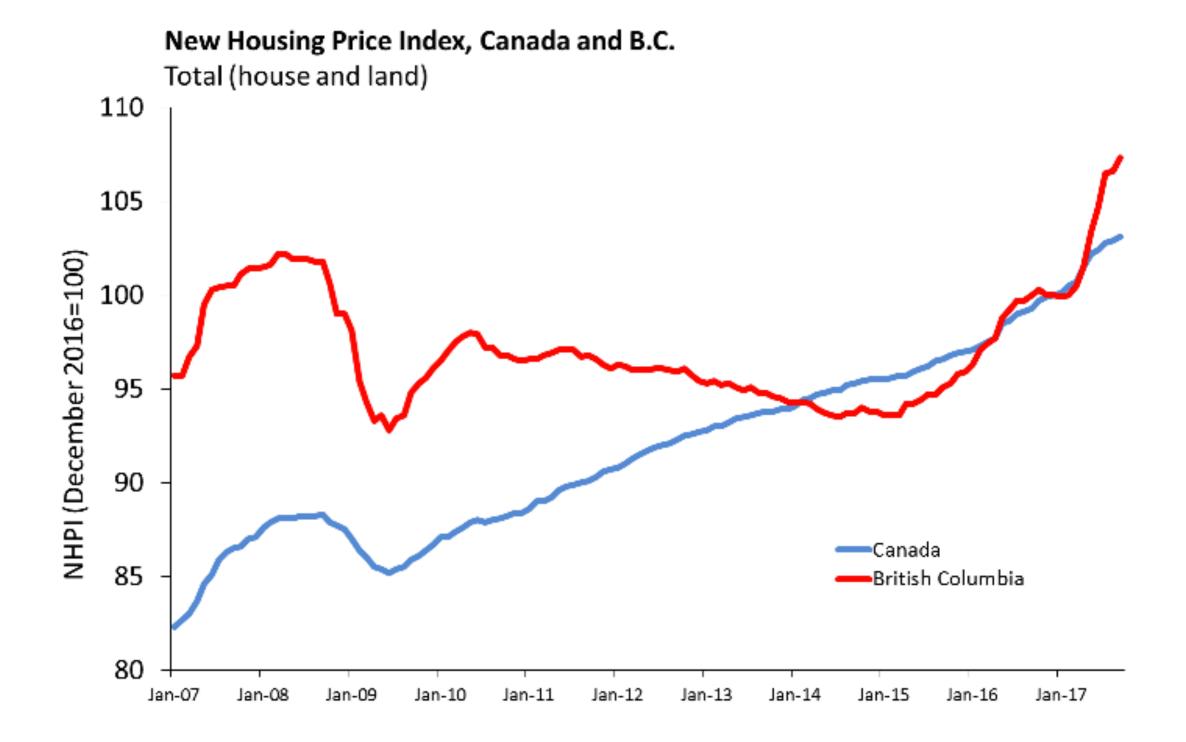
#### Issue 17-146 Price of New Housing

November 9, 2017

In September the cost of new housing in B.C. was up from August by 0.7%. The rise was concentrated in Kelowna (+0.9%) and Vancouver (+0.7%), as Victoria registered no change in prices compared to the previous month.

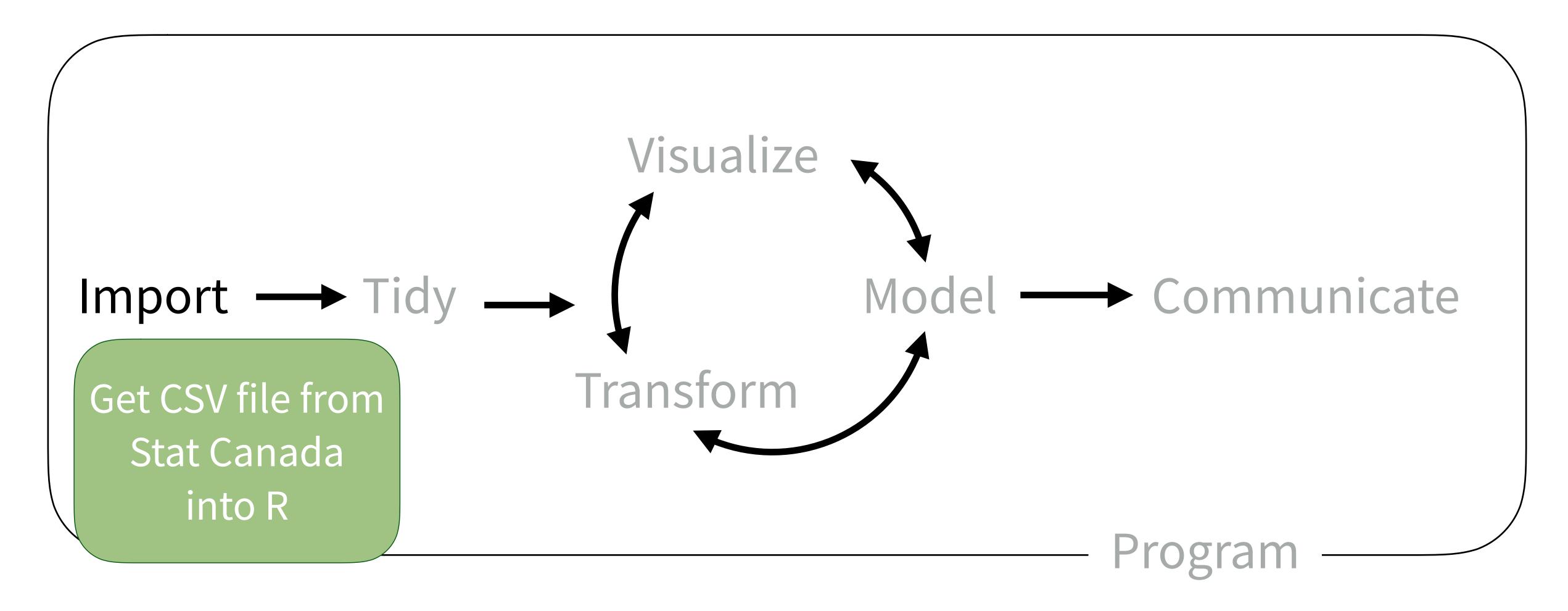
Relative to the same month of 2016, the cost of new housing in B.C.'s two largest cities continued to climb in September. Vancouver (+8.3%) reported the largest price increase among surveyed census metropolitan areas, with the price of both land (+5.7%) and building (+8.9%) up from last year. In Victoria, new housing prices rose 2.5% in September compared to the same month the previous year.

Nationally, new housing prices were 3.8% higher in September than in the same month of 2016. The increase was led by Vancouver, followed by London (8.1%) and Toronto (+6.4%). The increase was widespread, with new housing prices up in all but four of the reported census metropolitan areas.

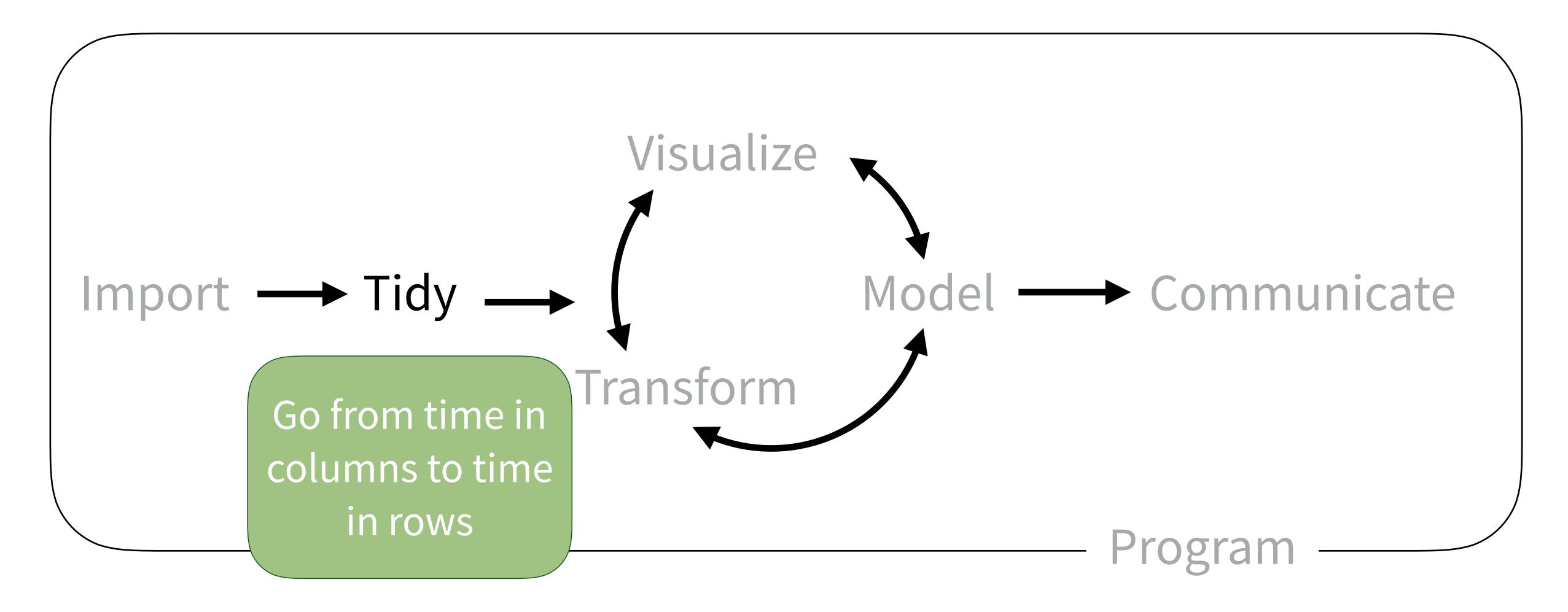


Source: Statistics Canada, CANSIM table 327-0056

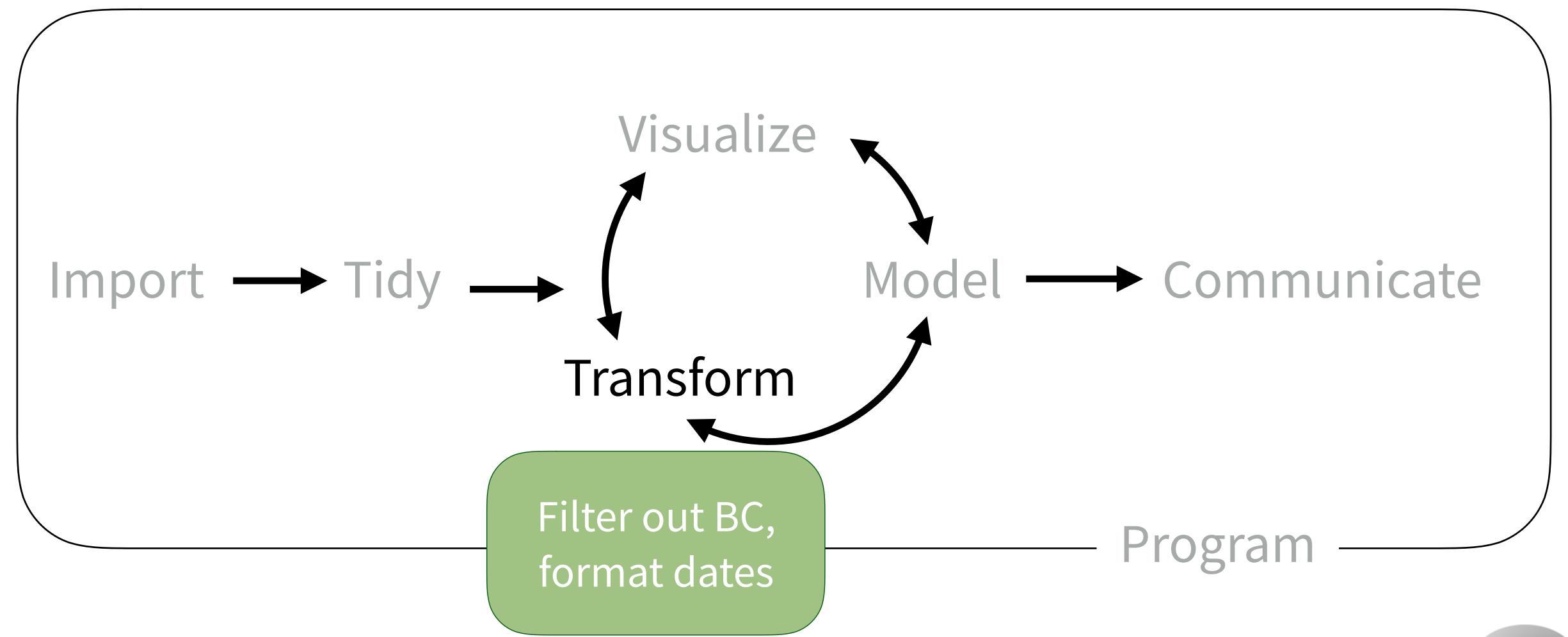
https://www2.gov.bc.ca/ gov/content/data/ statistics/infoline/ infoline-2017/17-146price-new-housing



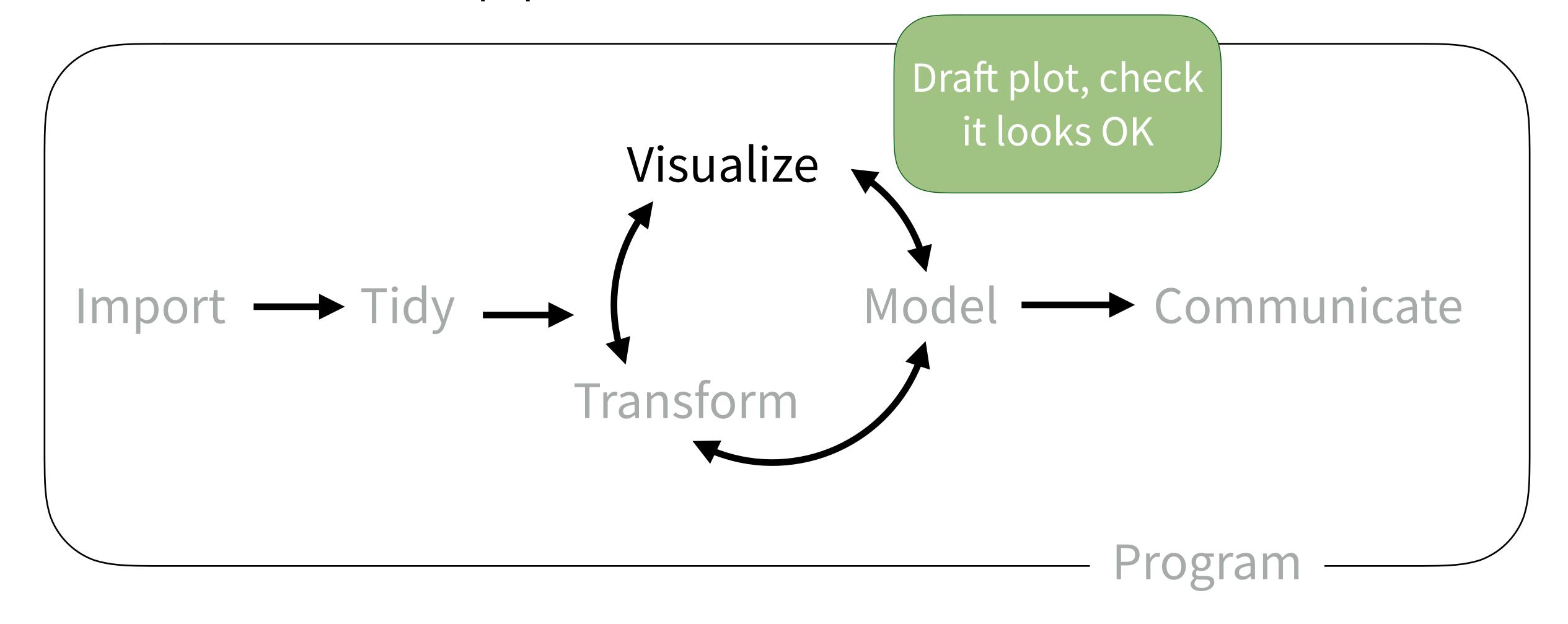




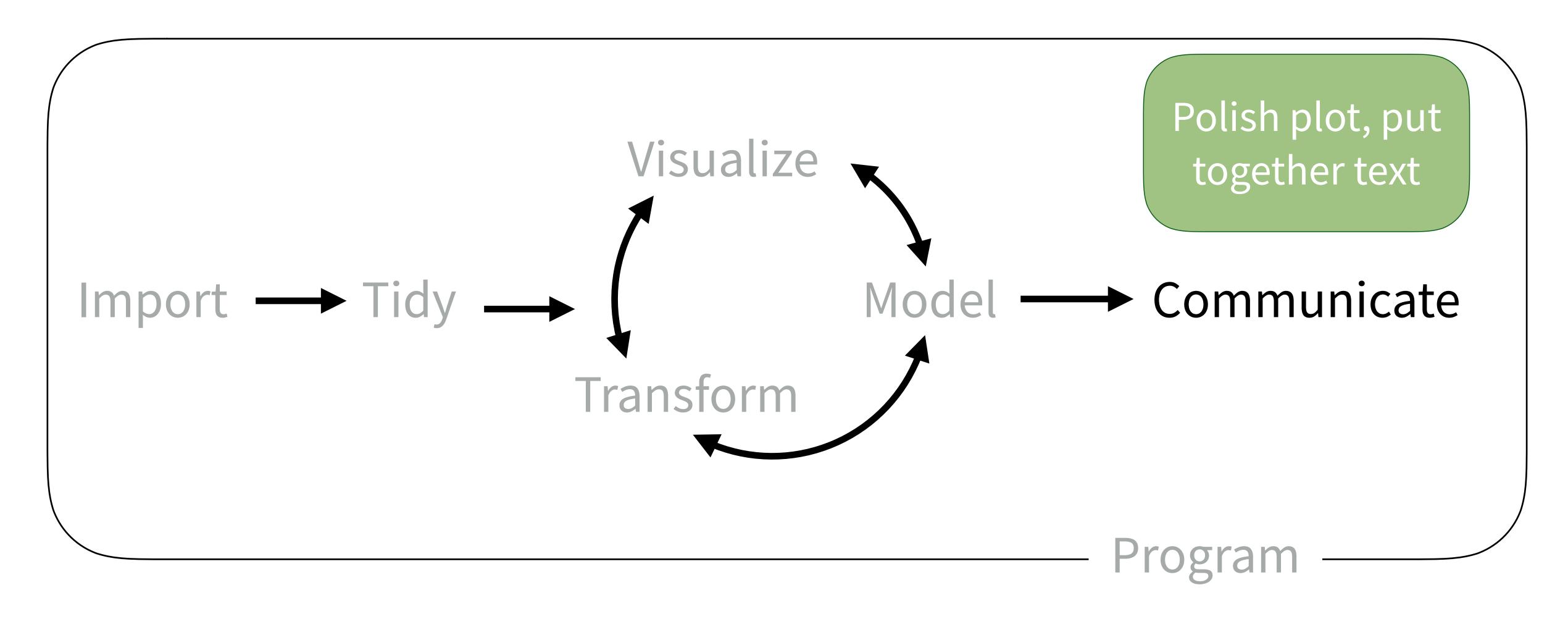




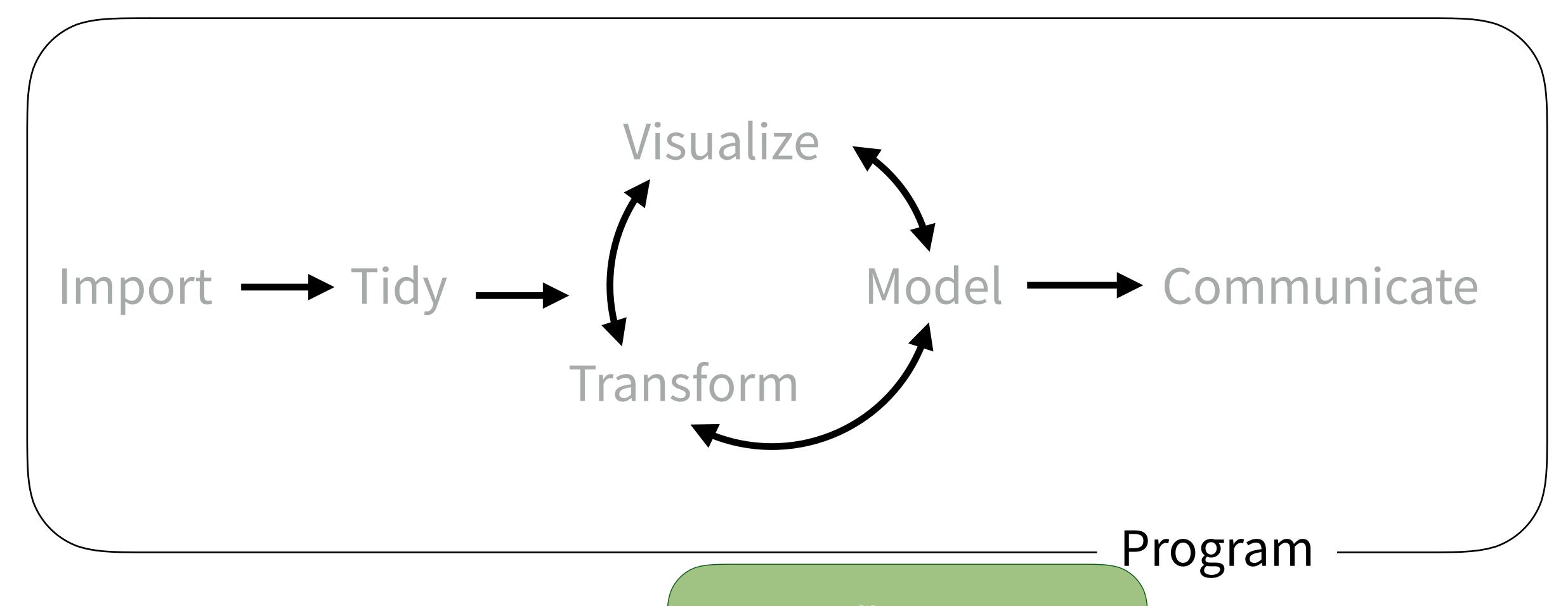












Do it all again next month



### Today

#### You'll:

- get familiar with RStudio
- learn some basic syntax rules
- explore tabular data structures in R

So, tomorrow we can dive into the tidyverse