

The Next Step with R:

Data Management, Graphics, and Functions



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Introduction

How today will go...

No sticky note: “I’m happily working on it”

Purple sticky note: “I’m all done and ready to move on”

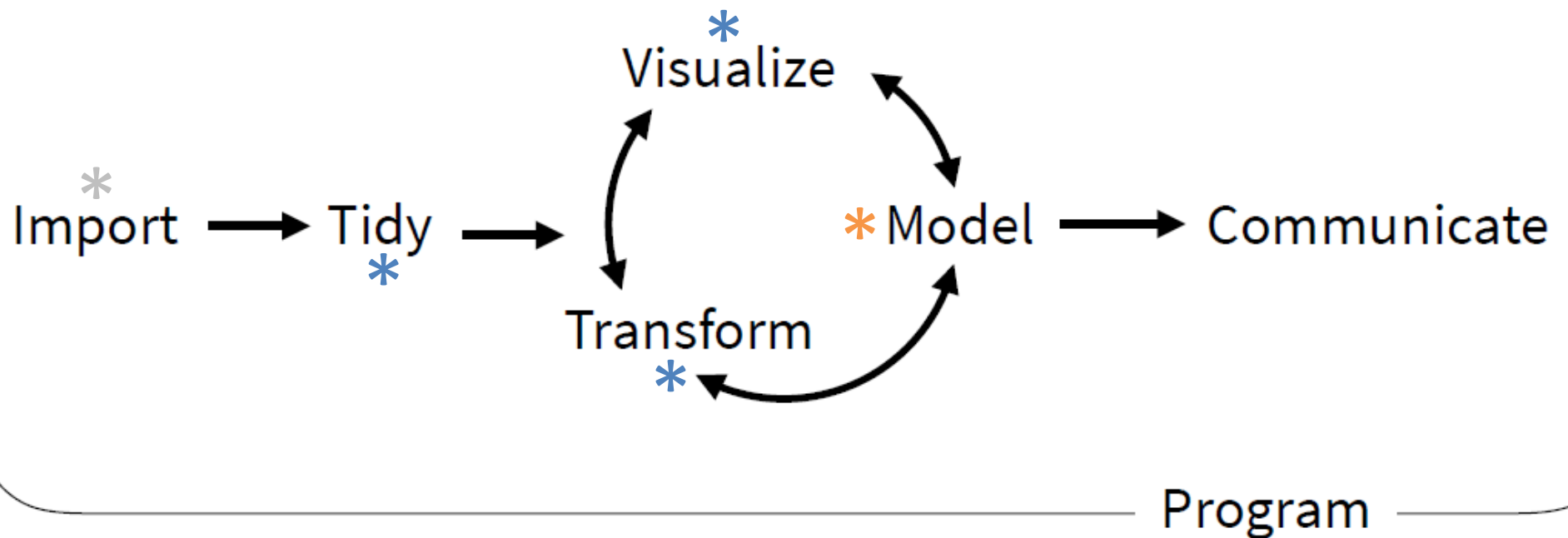
Yellow sticky note: “I’m stuck, can someone help me?”
(or flag us down)



Image @cwickham

Time	Objective
8:00 - 8:45	Welcome, Introductions, Workshop Objectives
8:45 - 9:45	Visualize Data, part 1
9:45 - 10:00	Morning Break
10:00 - 10:30	Visualize Data, part 2
10:30 - 11:30	Wrangle Data, part 1
11:30 - 13:00	Lunch (on your own)
13:00 - 13:30	Wrangle Data, part 2
13:30 - 14:30	Re-shape Data
14:30 - 14:45	Afternoon Break
14:45 - 15:45	Functions and Loops
15:45 - 16:00	Final Challenge, open questions, wrap-up

(Applied) Data Science



Workflow Basics

Tips and tricks to making your R work more productive

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5. Use standardized naming conventions

TL;DR - machine and human readable and plays well with default ordering (put something numeric first).

Left pad other numbers with zeros (to avoid the '10' coming before '01'). Avoid spaces in file names, punctuation, and accented characters.

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6. Coding review

```
package::function()
```

```
<-
```

Pipes! `%>%` from the `magrittr` package

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7. Keyboard Shortcuts: there's an RStudio Cheatsheet for that!

We love:

```
alt+- :for <-  
ctrl+enter :to run one or more lines  
ctrl+shift+m :for %>%  
ctrl+shift+c :to comment/uncomment  
ctrl+i :to indent prettily
```


www.tidyverse.org

