

RStudio features

Rollie Parrish

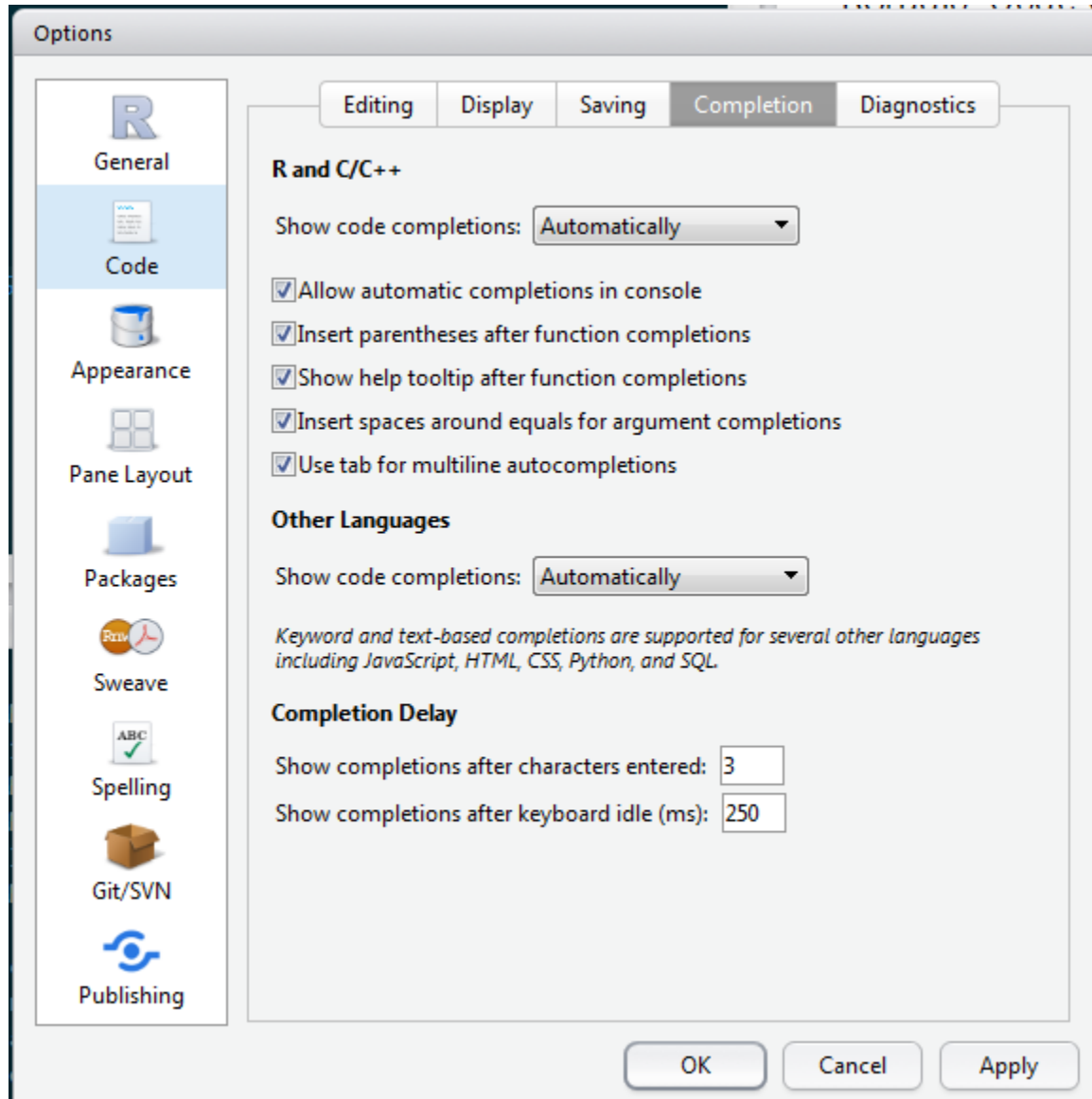
rollie.parrish@providence.org

December 16, 2015

Overview

- Code completion
- View() function
- Projects
- RMarkdown Templates

RStudio: Code Completion



Speeds up typing by displaying picklists and tool tips.

- context-aware
- all available objects (vectors, data frames, functions, installed packages, etc.)
- files navigation
- works in dplyr pipelines

To enable, go to:

Tools → Global Options → Code → Completion

RStudio: Code Completion walkthrough

```
library(dplyr)
library(dplyr)

load("Data/seattle_911.rda")
load("Data/seattle_911.rda")

dplyr::glimpse(seattle_911)

seattle_911 <- mutate(seattle_911,
                      Type = as.factor(Type))
seattle_911 <- mutate(seattle_911,
                      Type = as.factor(Type))

seattle_911 %>%
  select(Type, Datetime) %>%
  count(Type, sort = TRUE)

seattle_911 %>%
  select(Type, Datetime) %>%
  count(Type, sort = TRUE)
```

- Seattle Fire Department calls on 2015-07-08
- Source: data.seattle.gov

RStudio: View()

Used to inspect dataset interactively in a grid

- incremental text search
- pop-out to a separate window
- refreshes when data frame is modified

RStudio: View() walkthrough

```
mydata <- seattle_911
View(mydata)






#
mydata <- filter(mydata, Type == "Rescue Elevator")
```

Projects

Useful when working on different analysis projects

Keeps all the associated files project files together

- scripts, data files, figures, reports
- dedicated R workspace and history
- Sets the working directory & other options
- Loads source files when project is re-opened

Name ▲	Date modified
 R	11/12/2015 7:10 PM
 Reports	11/12/2015 8:13 PM
 SQL	11/12/2015 7:18 PM
 .gitignore	11/15/2015 8:03 PM
 .RData	12/1/2015 4:34 PM
 .Rhistory	12/1/2015 4:34 PM
 STS score thresholds.Rproj	11/15/2015 8:03 PM

RMarkdown templates

- Custom layout and formatting of Rmarkdown reports
- Distributed as part of an R package
- Quick demo

Discussion Points

- Version control for data analysis projects
- R Package development/collaboration (templates, functions, etc.)
- Interest in a setting up server-based R/RStudio

Questions?

Rollie.Parrish@providence.org

<https://github.com/rparrish>