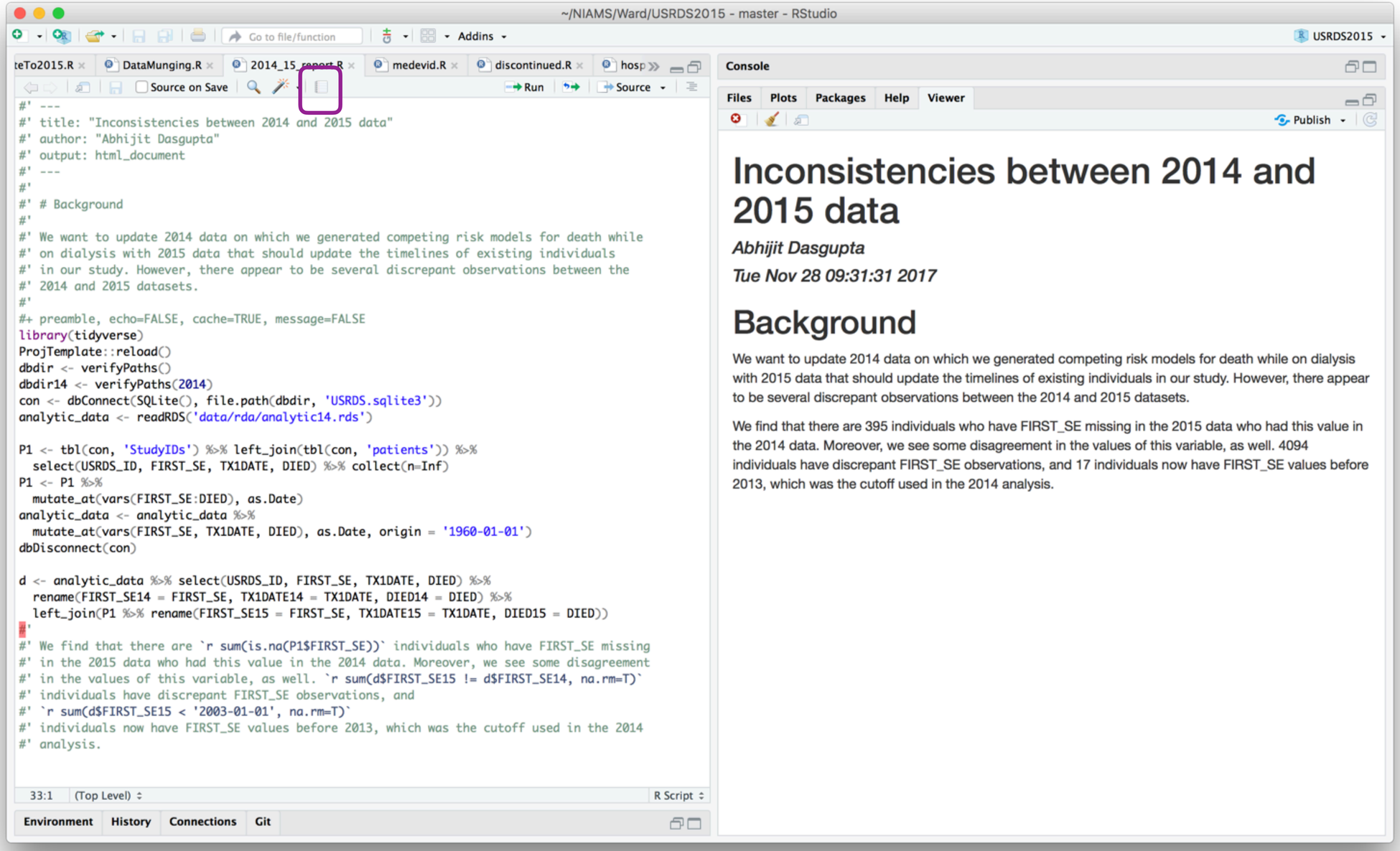
Spin

- You can generate documents directly from R script files
- You use a particular form of comment, that starts with `#'`
- This process gets rid of copying code
- This allows you to create a “lab notebook” with properly formatted comments that you can print into a document


~/NIAMS/Ward/USRDS2015 - master - RStudio
Go to file/function
Addins
USRDS2015
teTo2015.R
DataMunging.R
2014_15_report.R
medevid.R
discontinued.R
hosp
Source on Save
Run
Source
#' ---
#' title: "Inconsistencies between 2014 and 2015 data"
#' author: "Abhijit Dasgupta"
#' output: html_document
#' ---
#'
#' # Background
#'
#' We want to update 2014 data on which we generated competing risk models for death while
#' on dialysis with 2015 data that should update the timelines of existing individuals
#' in our study. However, there appear to be several discrepant observations between the
#' 2014 and 2015 datasets.
#'
#+ preamble, echo=FALSE, cache=TRUE, message=FALSE
library(tidyverse)
ProjTemplate::reload()
dbdir <- verifyPaths()
dbdir14 <- verifyPaths(2014)
con <- dbConnect(SQLite(), file.path(dbdir, 'USRDS.sqlite3'))
analytic_data <- readRDS('data/rda/analytic14.rds')
P1 <- tbl(con, 'StudyIDs') %>% left_join(tbl(con, 'patients')) %>%
select(USRDS_ID, FIRST_SE, TX1DATE, DIED) %>% collect(n=Inf)
P1 <- P1 %>%
mutate_at(vars(FIRST_SE:DIED), as.Date)
analytic_data <- analytic_data %>%
mutate_at(vars(FIRST_SE, TX1DATE, DIED), as.Date, origin = '1960-01-01')
dbDisconnect(con)
d <- analytic_data %>% select(USRDS_ID, FIRST_SE, TX1DATE, DIED) %>%
rename(FIRST_SE14 = FIRST_SE, TX1DATE14 = TX1DATE, DIED14 = DIED) %>%
left_join(P1 %>% rename(FIRST_SE15 = FIRST_SE, TX1DATE15 = TX1DATE, DIED15 = DIED))
#'
#' We find that there are `r sum(is.na(P1$FIRST_SE))` individuals who have FIRST_SE missing
#' in the 2015 data who had this value in the 2014 data. Moreover, we see some disagreement
#' in the values of this variable, as well. `r sum(d$FIRST_SE15 != d$FIRST_SE14, na.rm=T)`
#' individuals have discrepant FIRST_SE observations, and
#' `r sum(d$FIRST_SE15 < '2003-01-01', na.rm=T)`
#' individuals now have FIRST_SE values before 2013, which was the cutoff used in the 2014
#' analysis.
33:1
(Top Level)
R Script
Environment
History
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Inconsistencies between 2014 and 2015 data
Abhijit Dasgupta
Tue Nov 28 09:31:31 2017
Background
We want to update 2014 data on which we generated competing risk models for death while on dialysis with 2015 data that should update the timelines of existing individuals in our study. However, there appear to be several discrepant observations between the 2014 and 2015 datasets.
We find that there are 395 individuals who have FIRST_SE missing in the 2015 data who had this value in the 2014 data. Moreover, we see some disagreement in the values of this variable, as well. 4094 individuals have discrepant FIRST_SE observations, and 17 individuals now have FIRST_SE values before 2013, which was the cutoff used in the 2014 analysis.