Freddie - Example

Datasets

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Preamble

```
rm(list = ls())
pklist <- c("tidyverse", "fredr", "lubridate")
source("https://fgeerolf.github.io/datasets/load-packages.R")</pre>
```

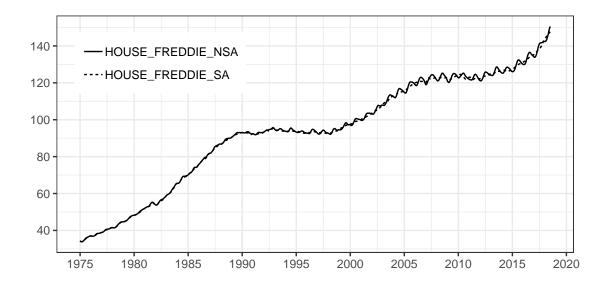
Set Fred Key here:

Downloading

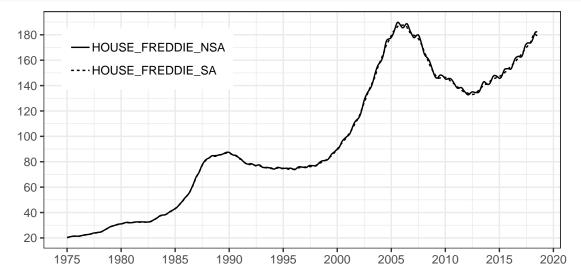
```
load("freddie.mac.msa.RData")
```

Plot

Rochester, New York

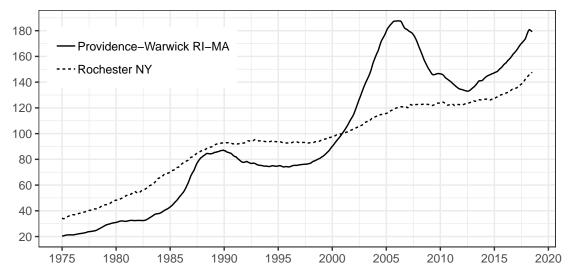


Providence-Warwick RI-MA

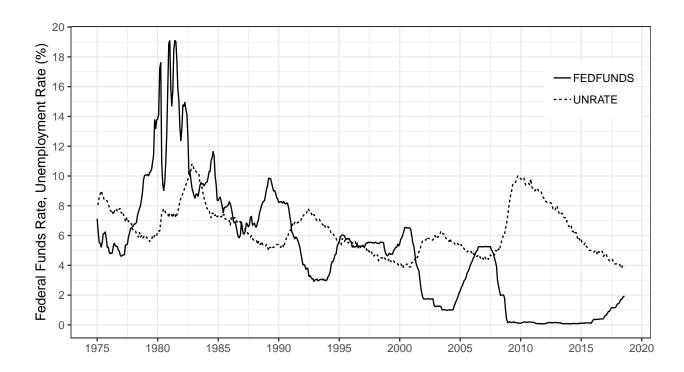


Compare Rochester and Providence

```
freddie.mac.msa %>%
  filter(cbsa.name %in% c("Providence-Warwick RI-MA", "Rochester NY"),
      variable == "HOUSE_FREDDIE_SA") %>%
  ggplot(aes(x = date, y = value, linetype = cbsa.name)) +
```



Interest Rates and House Prices



Computing Environment

```
Sys.time()
## [1] "2018-09-30 09:38:58 PDT"
sessionInfo()
## R version 3.5.1 (2018-07-02)
## Platform: x86_64-apple-darwin15.6.0 (64-bit)
## Running under: macOS High Sierra 10.13.6
##
## Matrix products: default
## BLAS: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRblas.0.dylib
## LAPACK: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRlapack.dylib
##
## locale:
## [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
## attached base packages:
## [1] stats
                 graphics grDevices utils
                                               datasets methods
                                                                   base
##
## other attached packages:
   [1] bindrcpp_0.2.2 lubridate_1.7.4 fredr_1.0.0
                                                        forcats_0.3.0
##
   [5] stringr_1.3.1
                        dplyr_0.7.6
                                        purrr_0.2.5
                                                        readr 1.1.1
##
##
   [9] tidyr_0.8.1
                        tibble_1.4.2
                                        ggplot2_3.0.0
                                                        tidyverse_1.2.1
##
## loaded via a namespace (and not attached):
  [1] Rcpp_0.12.18
                         cellranger_1.1.0 pillar_1.3.0
                                                           compiler_3.5.1
##
##
  [5] plyr_1.8.4
                         bindr_0.1.1
                                          tools_3.5.1
                                                           digest_0.6.15
  [9] jsonlite_1.5
                         evaluate_0.11
                                          nlme_3.1-137
##
                                                           gtable_0.2.0
```

##	[13]	lattice_0.20-35	pkgconfig_2.0.2	rlang_0.2.2	cli_1.0.0
##	[17]	rstudioapi_0.7	curl_3.2	yaml_2.2.0	haven_1.1.2
##	[21]	withr_2.1.2	xm12_1.2.0	httr_1.3.1	knitr_1.20
##	[25]	hms_0.4.2	rprojroot_1.3-2	grid_3.5.1	tidyselect_0.2.4
##	[29]	glue_1.3.0	R6_2.2.2	readxl_1.1.0	rmarkdown_1.10
##	[33]	modelr_0.1.2	magrittr_1.5	backports_1.1.2	scales_1.0.0
##	[37]	htmltools_0.3.6	rvest_0.3.2	assertthat_0.2.0	colorspace_1.3-2
##	[41]	stringi_1.2.4	lazyeval_0.2.1	munsell_0.5.0	broom_0.5.0
##	[45]	crayon_1.3.4			