

# BEA Regional - Example

Datasets

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## Preamble

```
rm(list = ls())
pklist <- c("tidyverse")
source("https://fgeerolf.github.io/datasets/load-packages.R")
options(tibble.print_max = 100)
```

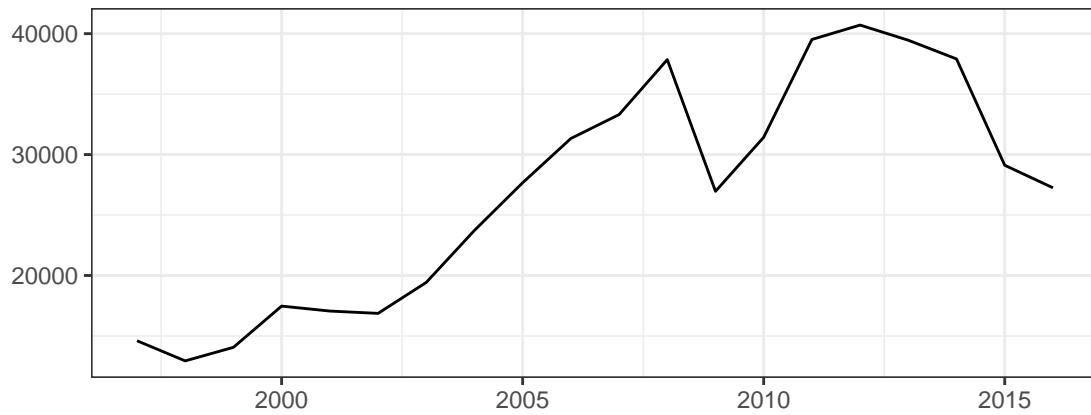
## Datasets

```
load("PCE.RData")
load("GDP.RData")
```

## Examples

### Gasoline Consumption in California

```
PCE %>%
  filter(grepl("Gasoline", variable.desc1) & state.code == "CA") %>%
  ggplot(aes(x = year, y = value, linetype = variable.desc1)) +
  geom_line() + theme_bw() + xlab("") + ylab("") +
  theme(legend.title = element_blank(),
        legend.position = "bottom")
```



— Gasoline and other energy goods

## Gasoline Production in California

```
GDP %>%
  filter(grepl("oil", variable.desc2) &
         grepl("Gross domestic product", variable.desc1) &
         state.code == "CA") %>%
  ggplot(aes(x = yearqtr, y = value, linetype = variable.desc1)) +
  geom_line() + theme_bw() + xlab("") + ylab("") +
  theme(legend.title = element_blank(),
        legend.position = "bottom")
```



— Gross domestic product (GDP) by state (millions of current dollars)

## Computing Environment

```
Sys.time()
```

```
## [1] "2018-09-25 15:32:57 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 forcats_0.3.0  stringr_1.3.1  dplyr_0.7.6
## [5] purrr_0.2.5    readr_1.1.1    tidyr_0.8.1    tibble_1.4.2
## [9] 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] lubridate_1.7.4 jsonlite_1.5    evaluate_0.11   nlme_3.1-137
## [13] gtable_0.2.0    lattice_0.20-35 pkgconfig_2.0.2 rlang_0.2.2
## [17] cli_1.0.0       rstudioapi_0.7  yaml_2.2.0      haven_1.1.2
## [21] withr_2.1.2     xml2_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] labeling_0.3    stringi_1.2.4   lazyeval_0.2.1  munsell_0.5.0
## [45] broom_0.5.0     crayon_1.3.4
```