

Example & Figure 10-1

September 11, 2020

```
[ ]: # install the following package and libraries
install.packages("pder")
install.packages("ggplot2")
install.packages("devtools")
devtools::install_github("wmurphyrd/fiftystater")
install.packages("mapproj")

library("pder")
library("fiftystater")
library("ggplot2")
```

```
[14]: ##-----Block 1-----

#### Example 10-1 ####

data("HousePricesUS", package="pder")
data("fifty_states")
houses00 <- subset(HousePricesUS, year == 2000)
houses00$name <- tolower(houses00$name)

#### Figure 10.1 ####

# map_id creates the aesthetic mapping to the state name column in your data
p <- ggplot(houses00, aes(map_id = name)) +
  geom_map(aes(fill = price), map = fifty_states) +
  expand_limits(x = fifty_states$long, y = fifty_states$lat) +
  coord_map() +
  scale_x_continuous(breaks = NULL) +
  scale_y_continuous(breaks = NULL) +
  labs(x = "", y = "") +
  theme(legend.position = "bottom",
        panel.background = element_blank()) +
  theme(legend.text = element_text(size = 8),
        legend.title = element_text(size = 10),
        axis.title = element_text(size = 10))
```

p

