# maps

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```r
library(ggplot2)
library(fiftystater)
library(colorplaner)
library(mapproj)
```

```
## Loading required package: maps
```

```r
library(viridis)
```

```
## Loading required package: viridisLite
```
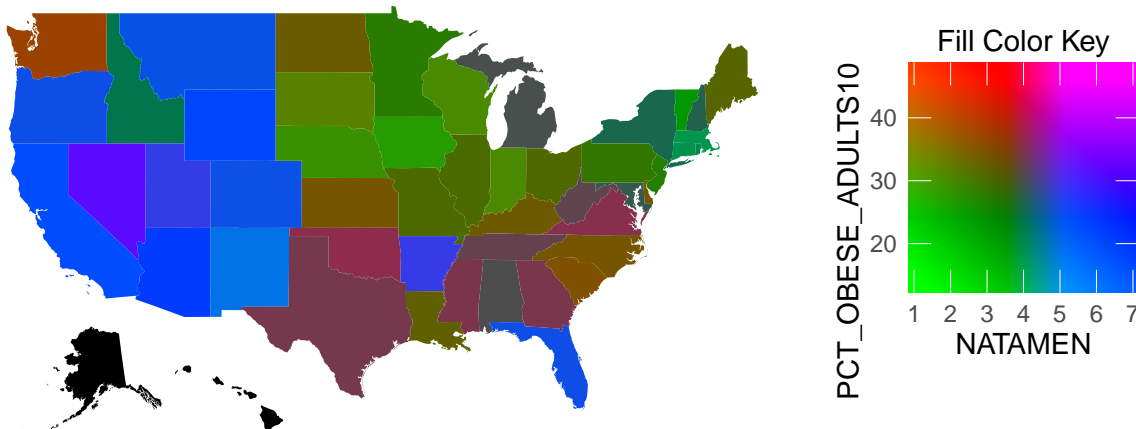
```r
data <- read.csv("data_Food.csv", head = TRUE)
data <- data[-3144,]


# State NATAMEN and obesity maps
data$states <- state.name[match(data$State,state.abb)]

data$states <- tolower(data$states)

ggplot(data, aes(map_id=states)) +  geom_map(aes(fill = NATAMEN), 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()) + aes(fill2 = PCT_OBESE_ADULTS10) + scale_fill_colorplane()
  theme(legend.position = "right")
```
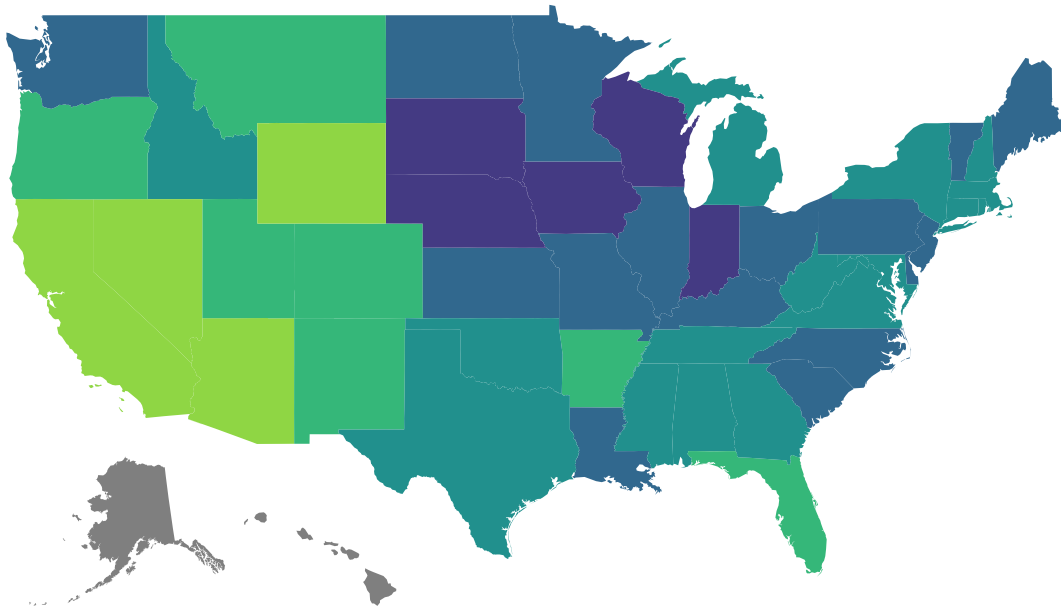


```r
# map of NATAMEN and obesity


ggplot(data, aes(map_id=states)) +  geom_map(aes(fill = NATAMEN), 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()) + scale_fill_viridis()
```



NATAMEN

1 2 3 4 5 6 7

```
ggplot(data, aes(map_id=states)) + geom_map(aes(fill = PCT_OBESE_ADULTS10), 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()) + scale_fill_viridis()
```

PCT_OBESE_ADULTS10