

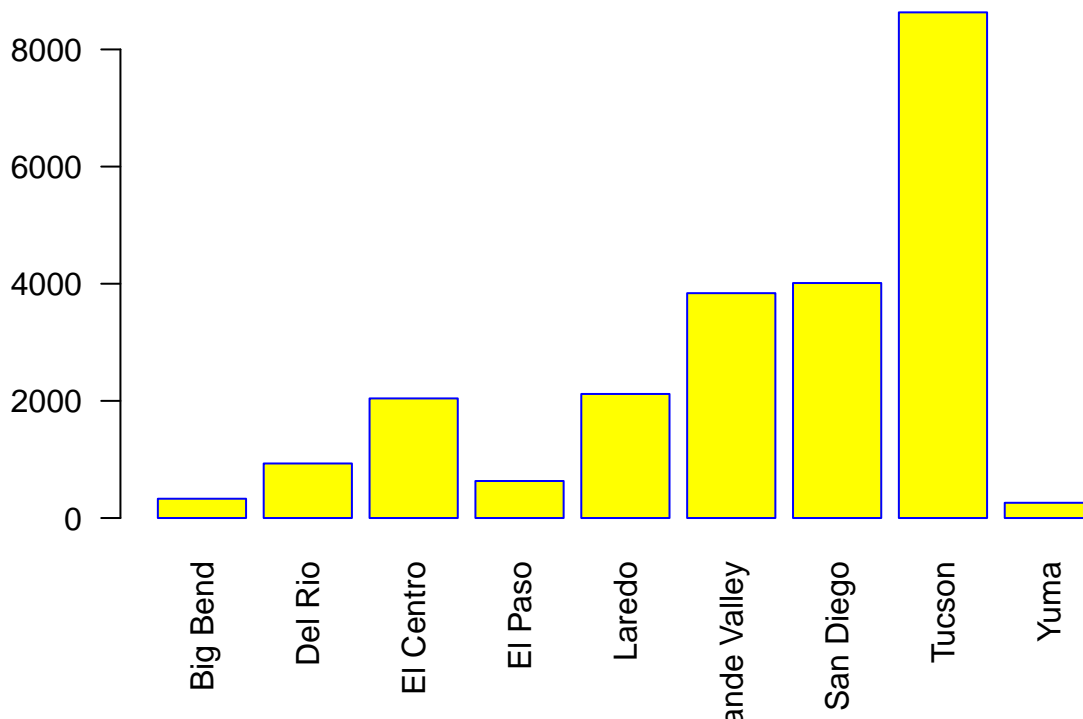
Assignment 3

Steven Tran

February 7, 2018

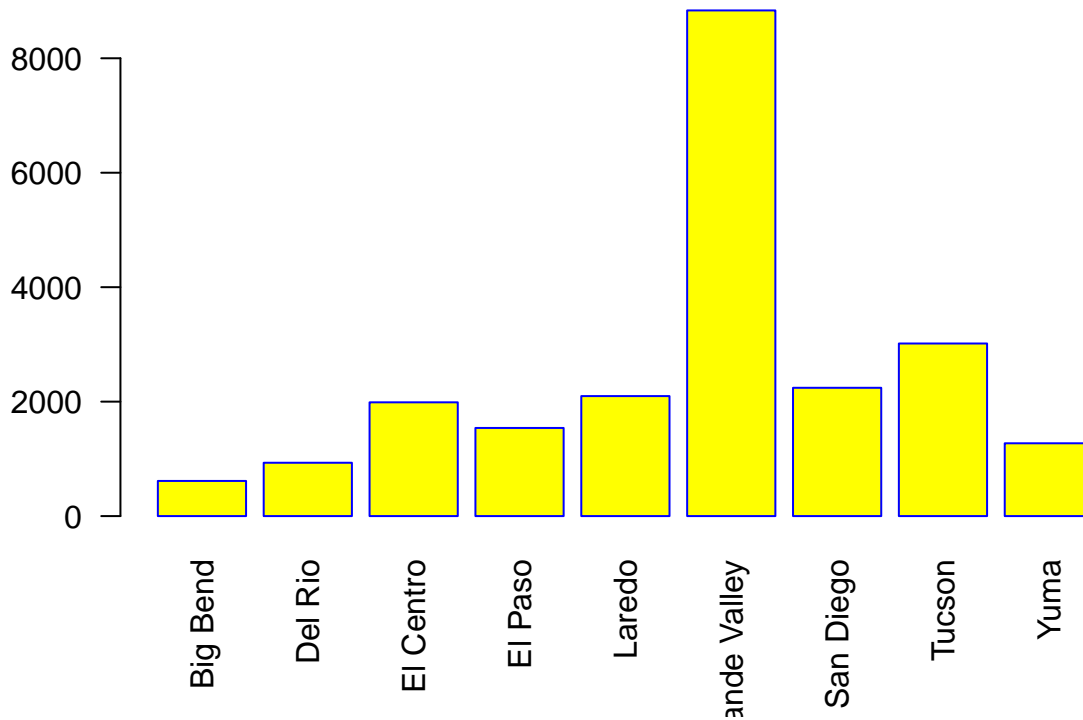
```
BP2010 <- read.csv("BP Apprehensions 2010.csv", header = TRUE, stringsAsFactors = FALSE)
rownames(BP2010) <- BP2010[,1]
x <- barplot(BP2010[1:9,13], names.arg = rownames(BP2010)[1:9],
  las=2,
  axisnames=TRUE,
  main="2010 Border Patrol Apprehensions by Sector",
  border="blue",
  col="yellow")
```

2010 Border Patrol Apprehensions by Sector



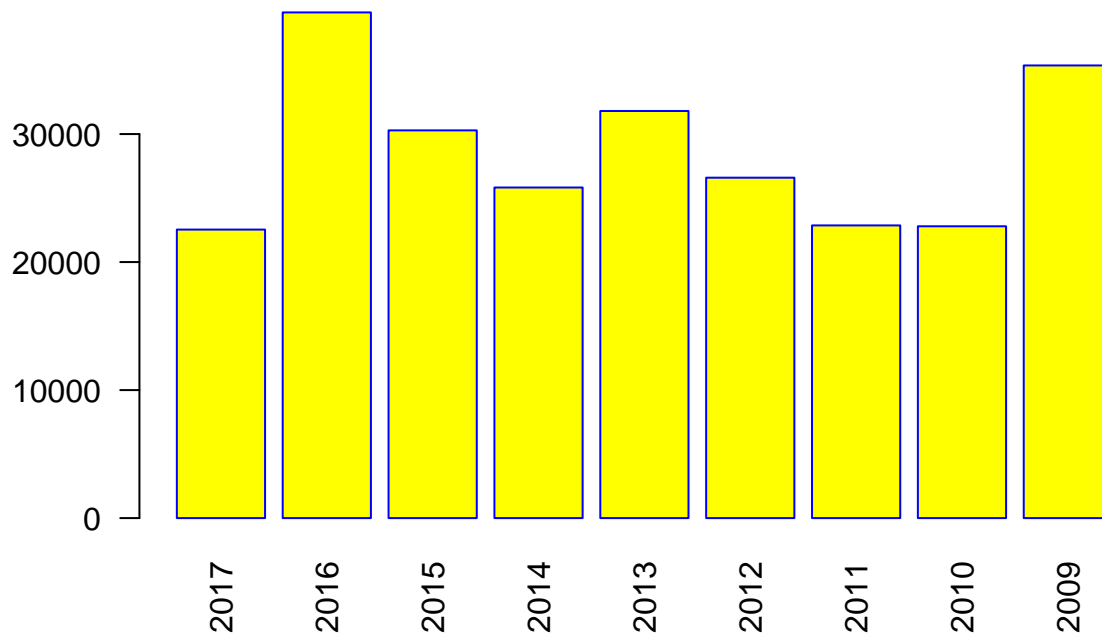
```
PB2017 <- read.csv("PB Apprehensions 2017.csv", header = TRUE, stringsAsFactors = TRUE)
rownames(PB2017) <- PB2017[,1]
barplot(PB2017[1:9,13], names.arg = rownames(PB2017)[1:9],
  las=2,
  axisnames=TRUE,
  main="2017 Border Patrol Apprehensions by Sector",
  border="blue",
  col="yellow")
```

2017 Border Patrol Apprehensions by Sector



```
PBmonthly <- read.csv("monthly_sum.csv", header = TRUE, stringsAsFactors = TRUE)
rownames(PBmonthly) <- PBmonthly[,1]
barplot(PBmonthly[1:9,13], names.arg = rownames(PBmonthly)[1:9],
        las=2,
        axisnames=TRUE,
        main="2010 Border Patrol Apprehensions by Year",
        border="blue",
        col="yellow")
```

2010 Border Patrol Apprehensions by Year

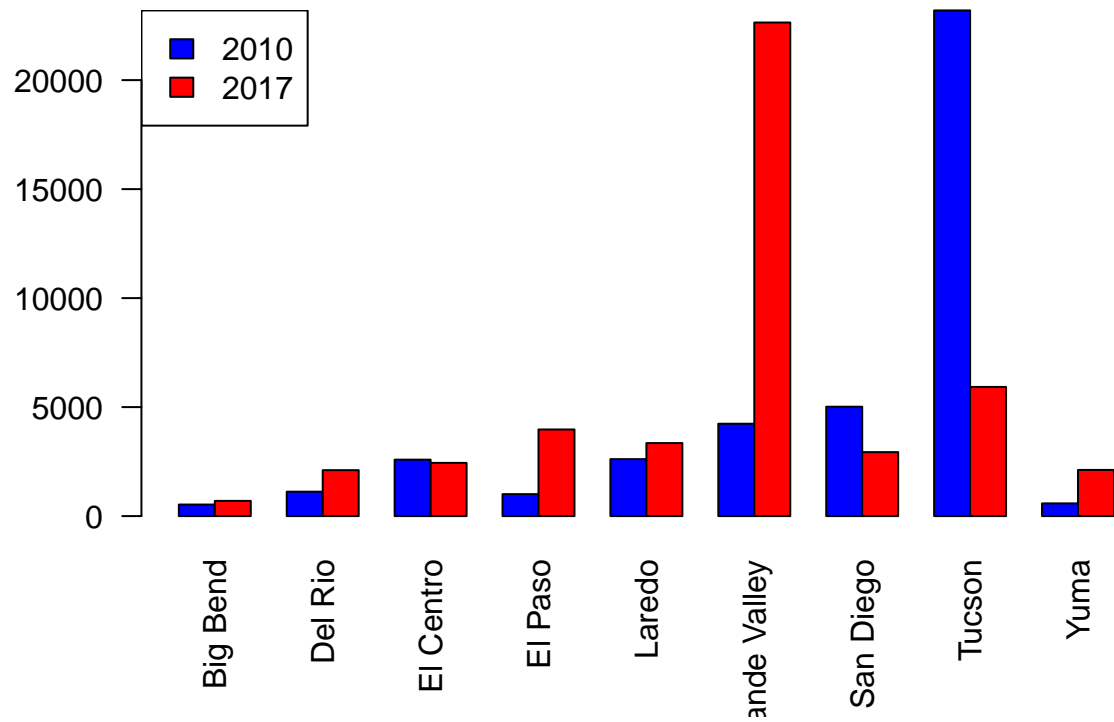


```
sideBySideMatrix <- function(month){
  matrix(c(BP2010[1:9,month], PB2017[1:9,month]), nrow = 2, byrow = TRUE)
}

sideBySideBarPlot <- function(month, monthString){
  barplot(sideBySideMatrix(month), names.arg = rownames(BP2010),
    las=2,
    axisnames=TRUE,
    beside=TRUE,
    col=c("blue", "red"),
    main = paste("2010 vs 2017 Border Patrol Apprehensions in", monthString, sep=" "))
  legend("topleft",
    c("2010", "2017"),
    fill = c("blue", "red"))
}

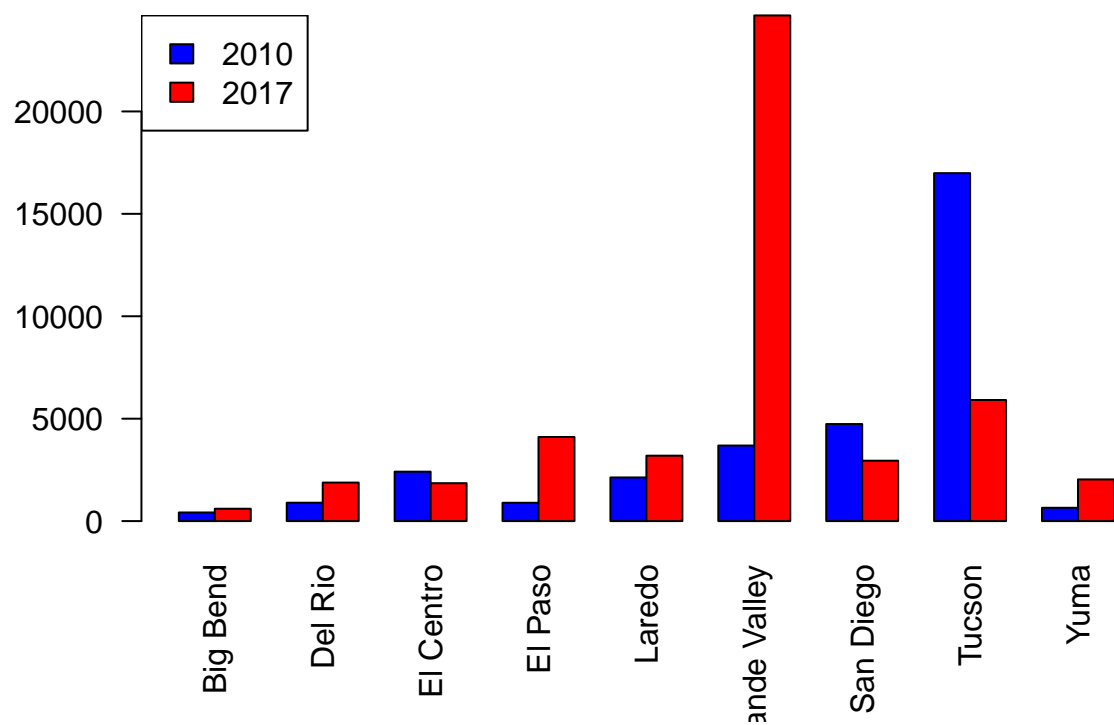
sideBySideBarPlot(2, "October")
```

2010 vs 2017 Border Patrol Apprehensions in October



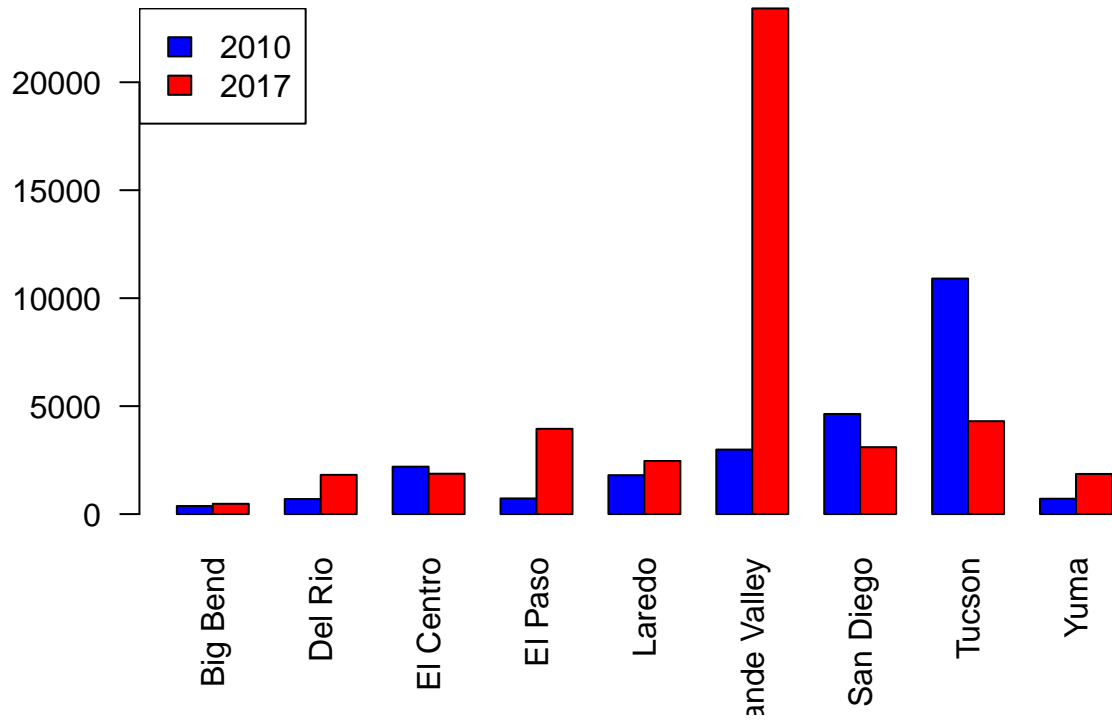
```
sideBySideBarPlot(3, "November")
```

2010 vs 2017 Border Patrol Apprehensions in November



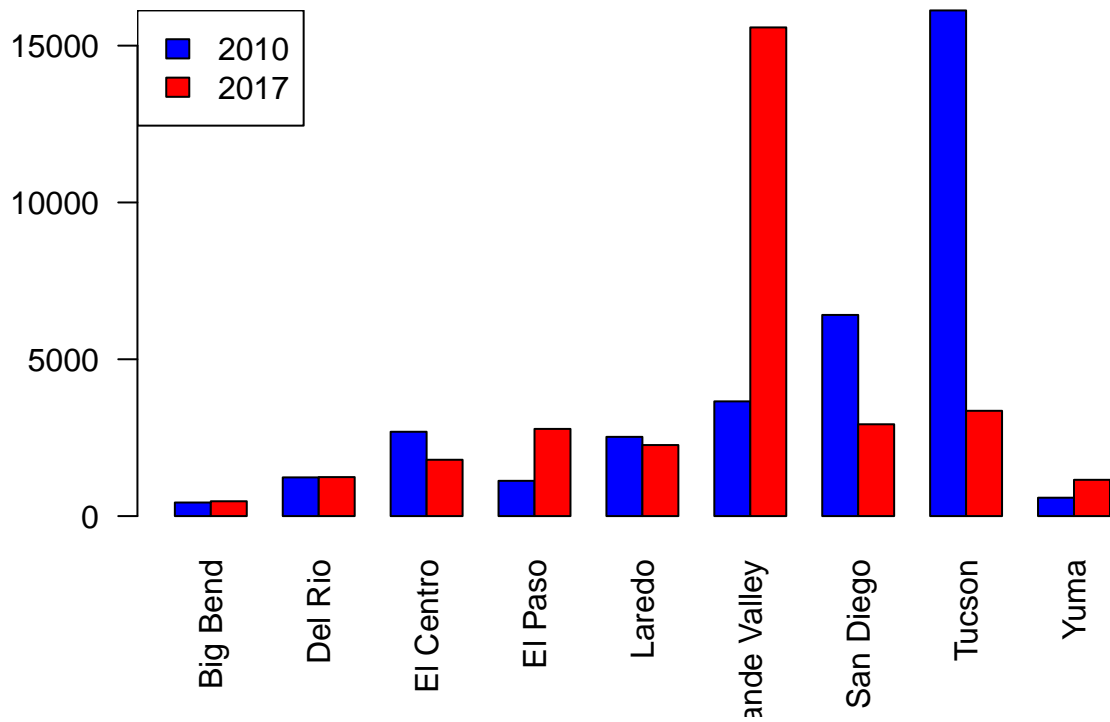
```
sideBySideBarPlot(4, "December")
```

2010 vs 2017 Border Patrol Apprehensions in December



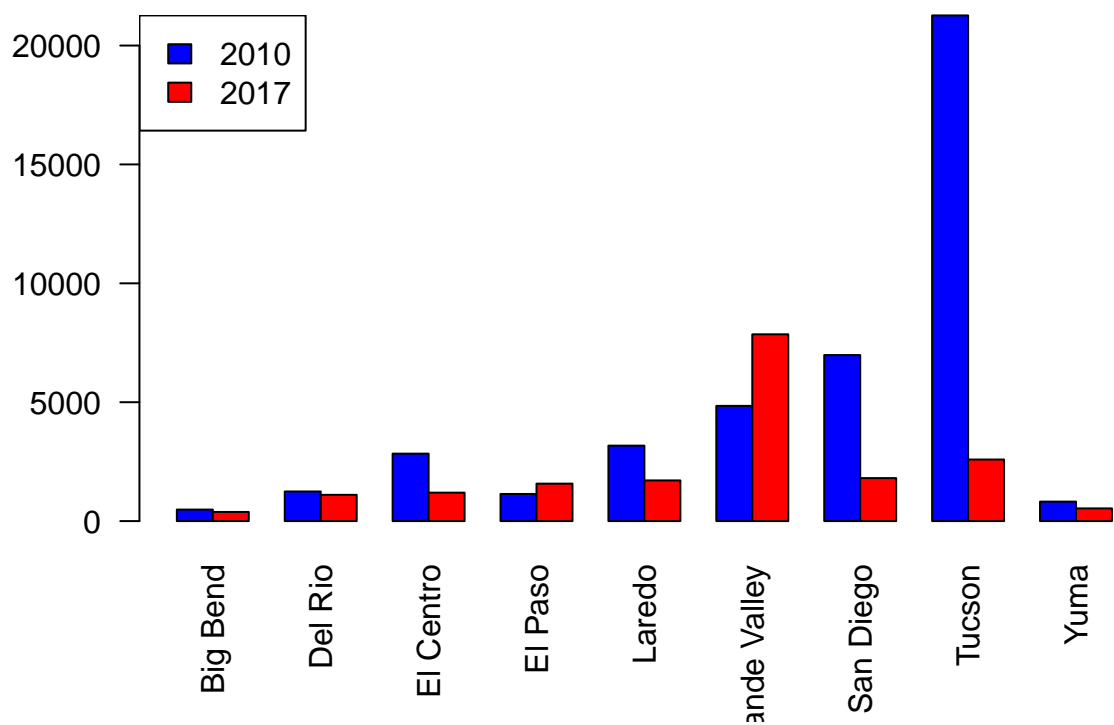
```
sideBySideBarPlot(5, "January")
```

2010 vs 2017 Border Patrol Apprehensions in January



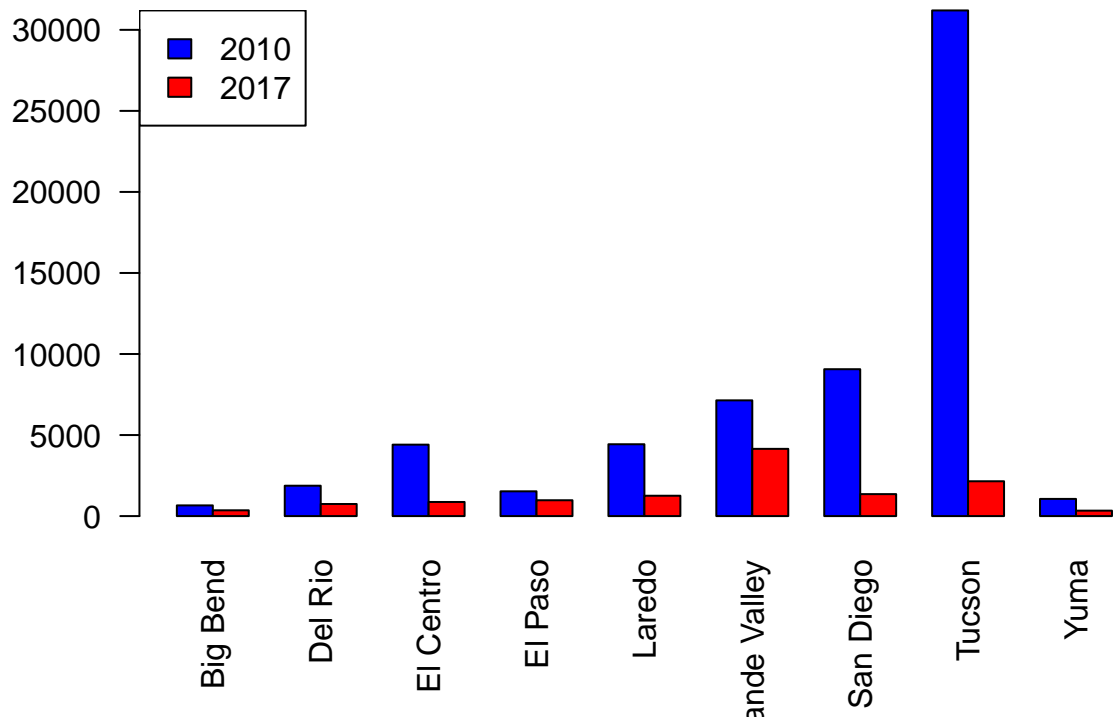
```
sideBySideBarPlot(6, "February")
```

2010 vs 2017 Border Patrol Apprehensions in February



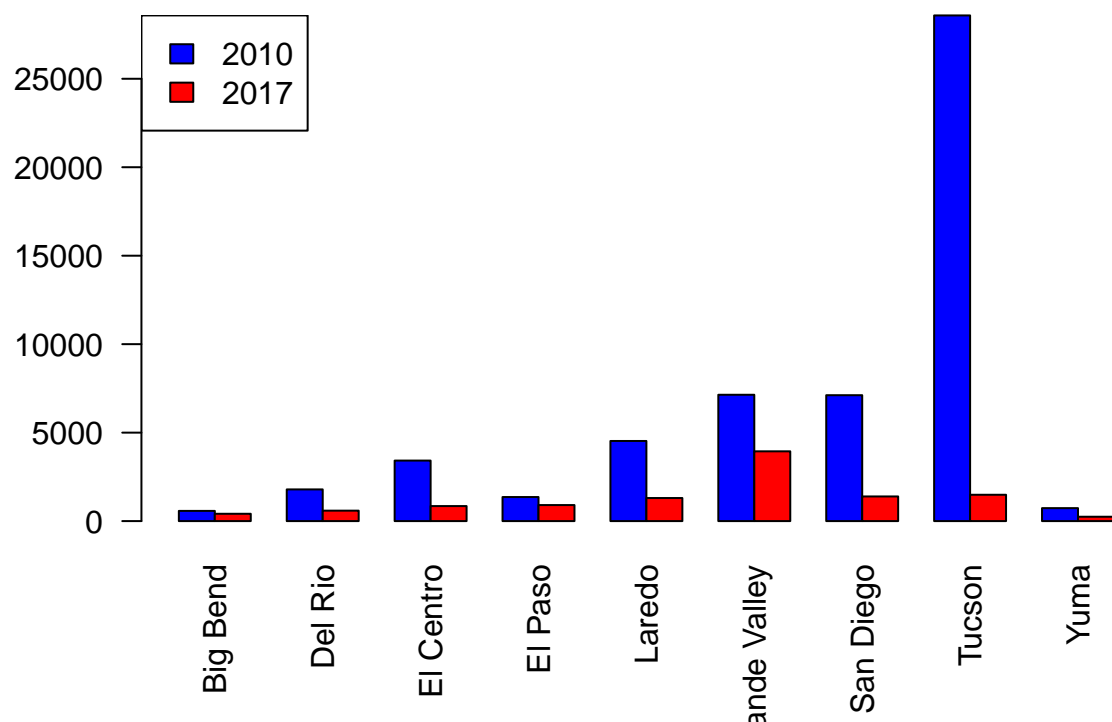
```
sideBySideBarPlot(7, "March")
```


2010 vs 2017 Border Patrol Apprehensions in March



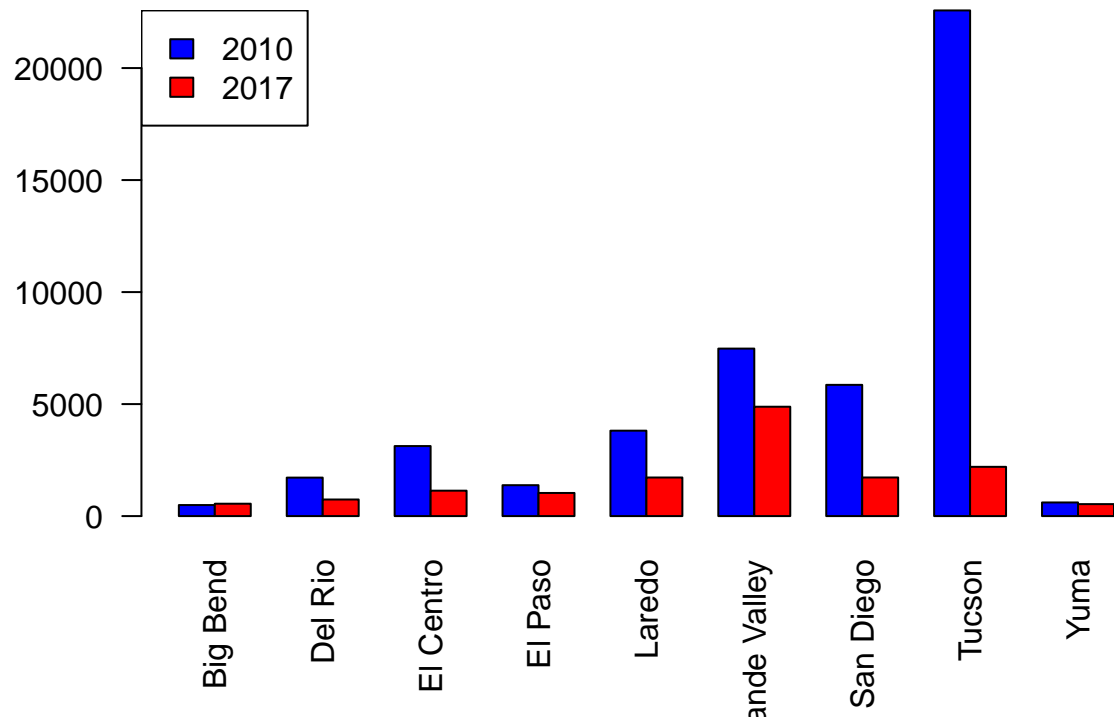
```
sideBySideBarPlot(8, "April")
```

2010 vs 2017 Border Patrol Apprehensions in April



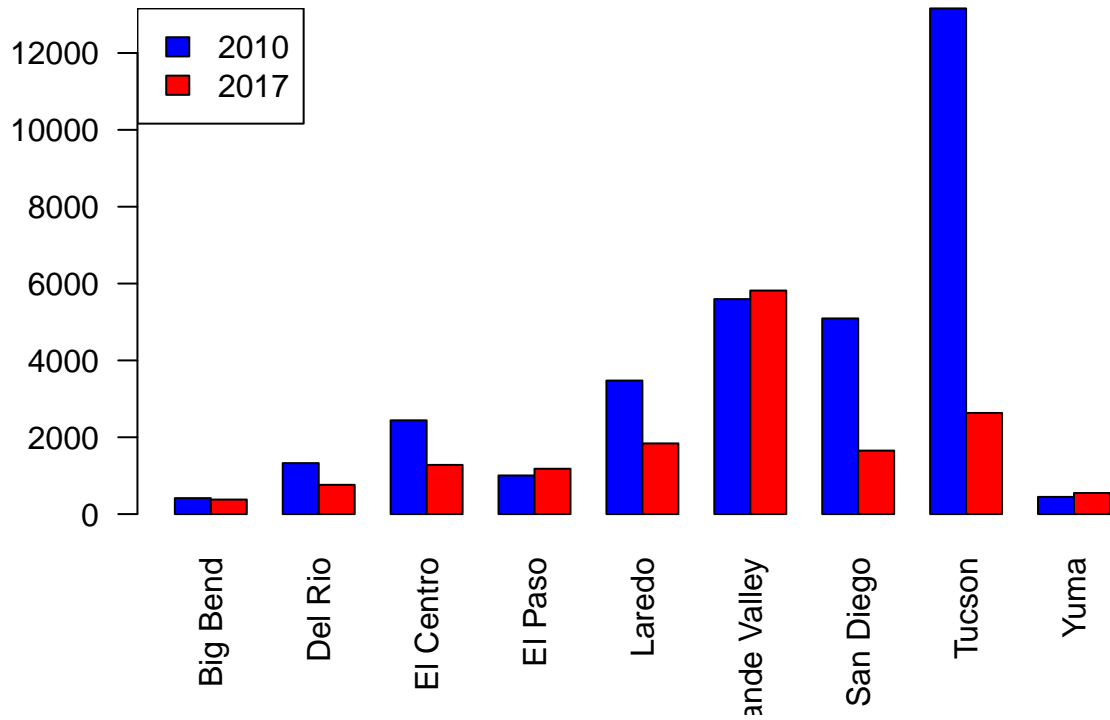
```
sideBySideBarPlot(9, "June")
```

2010 vs 2017 Border Patrol Apprehensions in June



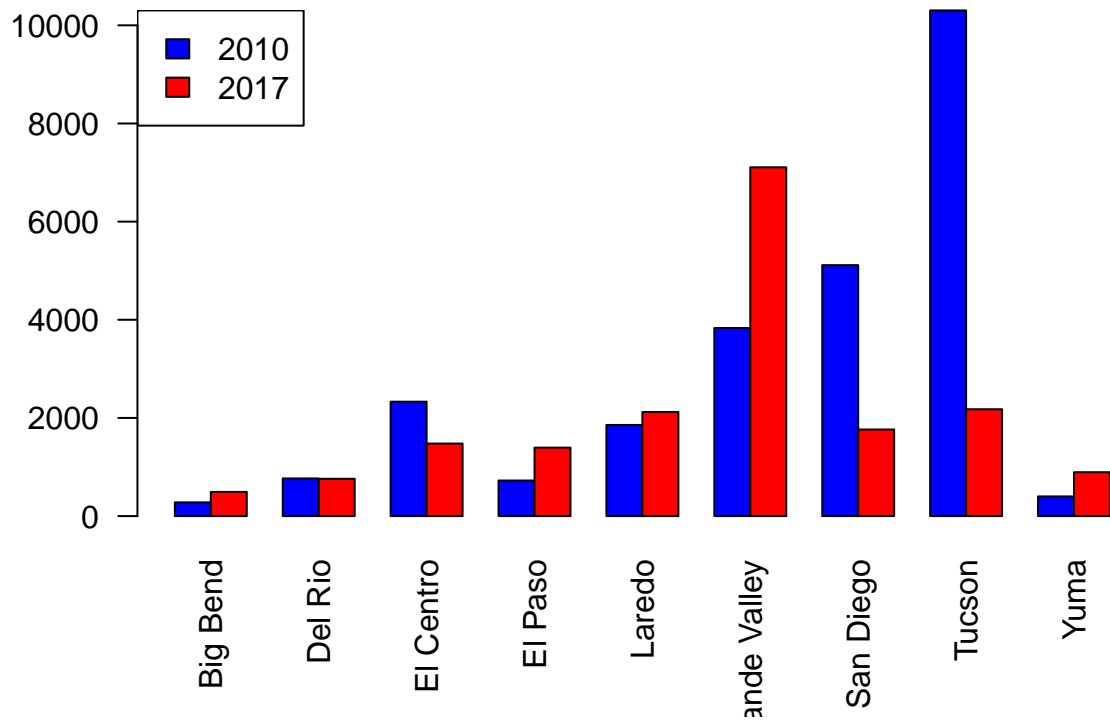
```
sideBySideBarPlot(10, "July")
```

2010 vs 2017 Border Patrol Apprehensions in July



```
sideBySideBarPlot(11, "August")
```

2010 vs 2017 Border Patrol Apprehensions in August



```
sideBySideBarPlot(12, "September")
```

2010 vs 2017 Border Patrol Apprehensions in September

