Precipitation at SCAL

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Monthly precipitation at SCAL from 2005 to 2010

```
#install.packages("plotly")
#install.packages("Dodge")
library(Dodge)
library(ggplot2)
#install.packages("magrittr")
library(magrittr)
library(plotly)
##
## Attaching package: 'plotly'
## The following object is masked from 'package:ggplot2':
##
##
       last_plot
## The following object is masked from 'package:stats':
##
       filter
##
## The following object is masked from 'package:graphics':
##
##
       layout
library(dplyr)
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
```

```
library(lubridate)
##
## Attaching package: 'lubridate'
## The following objects are masked from 'package:dplyr':
##
##
      intersect, setdiff, union
## The following objects are masked from 'package:base':
##
##
      date, intersect, setdiff, union
# Import csv file
ScalWeather=read.csv("Weather Data.csv",header = TRUE)
str (ScalWeather)
                  2101 obs. of 12 variables:
## 'data.frame':
## $ Date : chr "4/1/2005" "4/2/2005" "4/3/2005" "4/4/2005" ...
            ## $ Year
## $ Month : int 4 4 4 4 4 4 4 4 4 ...
## $ Day
            : int 1 2 3 4 5 6 7 8 9 10 ...
## $ Tair.max : num 14 21.4 26.5 25.7 19.9 ...
## $ Tair.min : num -0.468 -2.437 3.787 3.563 10.707 ...
## $ RHmax : num 94.9 80.6 80.2 91.2 99 ...
## $ RHmin : num 26.6 24.9 17.6 32.3 66.4 ...
## $ U3
           : num 3.73 4.42 3.51 4.69 5.29 ...
## $ Rain
            : num 0 0 0 0 19.1 ...
## $ Radiation: num 270 260.5 213.6 265.7 80.1 ...
            : num 3.5 5 5.6 5.6 2.2 4.3 4.3 3.5 4.8 0.7 ...
head(ScalWeather$Date)
## [1] "4/1/2005" "4/2/2005" "4/3/2005" "4/4/2005" "4/5/2005" "4/6/2005"
#Plot data
ggplot(ScalWeather, aes(x=Month,y=Rain, fill=Year))+ geom_bar(stat="identity", position = "stack") +
 ggtitle("Daily Precipitation\n Clay Center") + labs( x= "Month", y= "Precipitation", fill = NULL)+
 ggtitle("Daily Precipitation - SCAL\n 2005-2010") +facet_grid(Year~.)+theme_bw()
```



