rmap Cheat Sheet

Webpage: https://jgcri.github.io/rmap/ Github: https://github.com/JGCRI/rmap

Structure

KEY INPUTS

myFile.csv file

subRegion	value
TX	32
Α7	54

OR **R Data Frame**

```
data = data.frame(
     subRegion = c("TX", "AZ"),
      value = c(32,54))
```

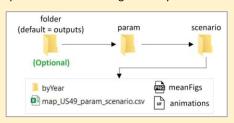
Optional Columns: param, scenario, year, class, units

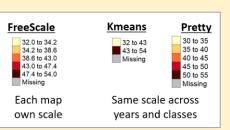
CODE

```
# To Install for the first time
# install.packages(devtools); library(devtools);
# devtools::install github("JGCRI/rmap");
library(rmap);
map (data) # OR
map("path/To/myFile.csv")
```

KEY OUTPUTS

Maps saved in the working directory as follows:





Pre-loaded Maps (Automatically find maps for data if available)

US49

data = data.frame(subRegion = c("TX", "AZ"),

value = c(32, 54), year=c(2010, 2010))

map(data)

Countries and cropToBoundary

data = data.frame(subRegion = c("India", "China"), value = c(32,54)) map(data, cropToBoundary=T)

data = data.frame(subRegion = c("La Plata", "Amazon"), value = c(32,54))





map(data, folderName="multiyear")



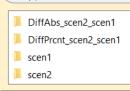
GCAM Basins

Multiple Scenarios, Years and Classes

Multi-Year Animantion/Mean

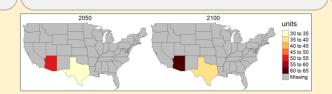
Multi-scenario Diff plots

data = data.frame(subRegion = c("TX","TX", "AZ", "AZ"), scenario = c("scen1", "scen2", "scen1", "scen2"), value = c(32, 38, 54, 63)map(data, scenRef="scen1")





data = data.frame(subRegion = c("TX","TX", "AZ", "AZ"), year = c("2050","2100","2050","2100"), value = c(32, 38, 54, 63))



Multi-Class

```
data = data.frame(subRegion = c("TX","TX", "AZ", "AZ"),
class = c("class1", "class2", "class1", "class2"),
value = c(32, 38, 54, 63)
map(data)
```



Customize Scales, Colors, Background

Set scale ranges

data = data.frame(subRegion = c("TX","TX", "AZ", "AZ"), scenario = c("scen1","scen2","scen1","scen2"), value = c(32, 38, 54, 63)map(data, scaleRange = c(30,50), scaleRangeDiffPrcnt = c(10,30))



Change Palettes

data = data.frame(subRegion = c("TX","TX", "AZ", "AZ"), scenario = c("scen1", "scen2", "scen1", "scen2"), value = c(32, 38, 54, 63)map(data, scenRef= "scen1", classPalette = "pal_wet", classPaletteDiff = "pal_green")

Extended Boundary





