My first replicable Paper

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Abstract

This is an example on how to make a reproducible paper. We are using R from Rstudio, creating an RSweave document. This is a nice start to create a nice paper and get an A+. The next sections will show the steps taken.

1 Introduction

This is my intro to my great paper, I will explain the cool things I can do with my new 'computational thinking' powers combined with some Latex. This is my intro to my great paper, I will explain the cool things I can do with my new 'computational thinking' powers combined with some Latex. This is my intro to my great paper, I will explain the cool things I can do with my new 'computational thinking' powers combined with some Latex. This is my intro to my great paper, I will explain the cool things I can do with my new 'computational thinking' powers combined with some Latex.

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2 Exploring Data

Sections may use a label[1]. This label is needed for referencing. For example the next section has label *datas*, so you can reference it by writing: As we see in section 2.1.

```
> # collecting
> fileLink="https://github.com/reconjohn/Reproduce/raw/master/dataidx.RDS"
> MyFile=url(fileLink)
> dataidx=readRDS(MyFile)
>
```

2.1 Exploring Categorical Data

Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.

```
> tableONI=table(dataidx$ONIpolitical)
> tableONI

 nd per sub sel  ne
  2   8   4  21  41

> barplot(tableONI)
```

2.2 Exploring Numerical Data

Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like

[1] In fact, you can have a label wherever you think a future reference to that content might be needed.

it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.

```
> summary(dataidx[,c(3,4)])
```

```
      FHF              RWB
 Min.   :10.00   Min.   : 6.38
 1st Qu.:25.25   1st Qu.:23.60
 Median :49.00   Median :28.72
 Mean   :47.24   Mean   :32.40
 3rd Qu.:63.00   3rd Qu.:38.50
 Max.   :97.00   Max.   :84.83
 NA's   :5       NA's   :23
```

```
> boxplot(dataidx[,c(3,4)])
```

Boxplots were introduced by Tuckey (Tukey, John W (1977). Exploratory Data Analysis. Addison-Wesley.)

3 Looking for Relationships

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3.1 Numerical and Categorical

```
> boxplot(dataidx$FHF~dataidx$Region)
```

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3.2 Numerical and Numerical

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```
> plot(dataidx$FHF~dataidx$RWB)
```

The scatter plot is thought to be invented by John Frederick W. Herschel according to this link: https://qz.com/1235712/the-origins-of-the-scatter-plot-data-visualizations-greatest-invention/