

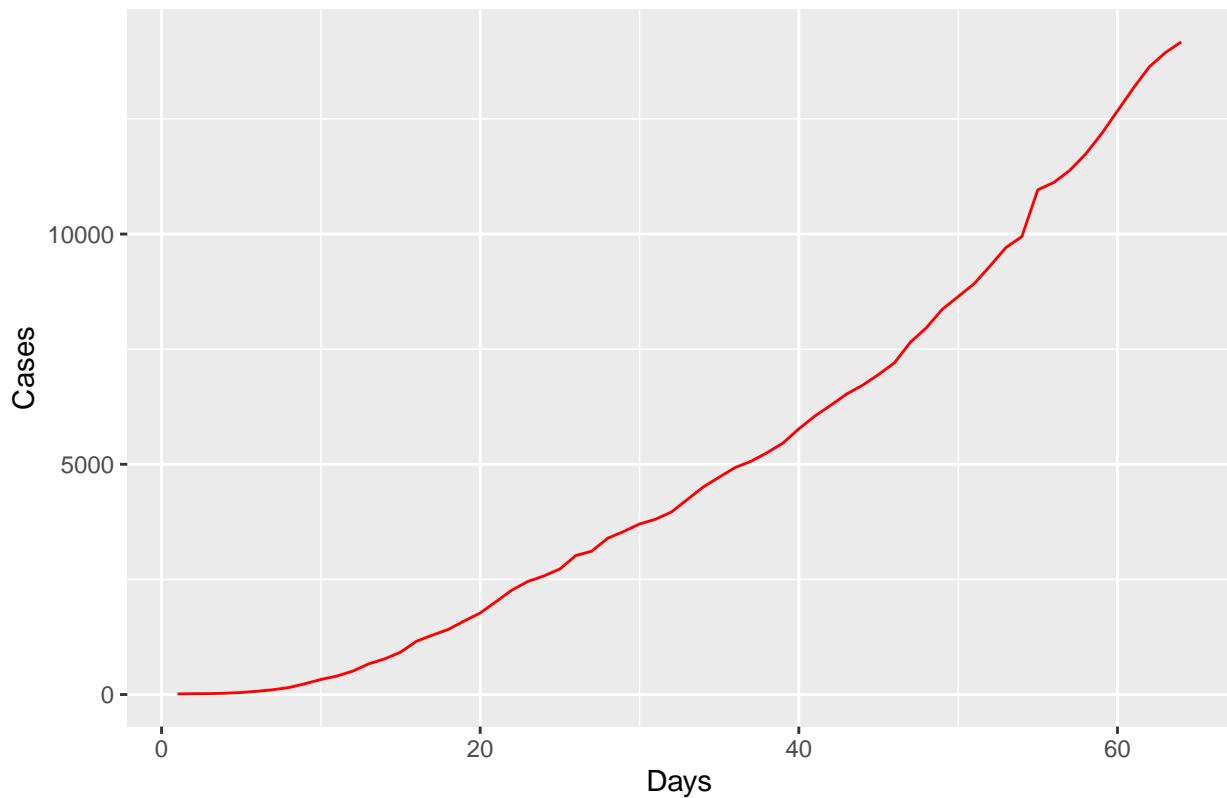
# Arizona/US/India Corona Trends- 13th May 2020 with tomorrow's prediction

Whitchurch Muthumani

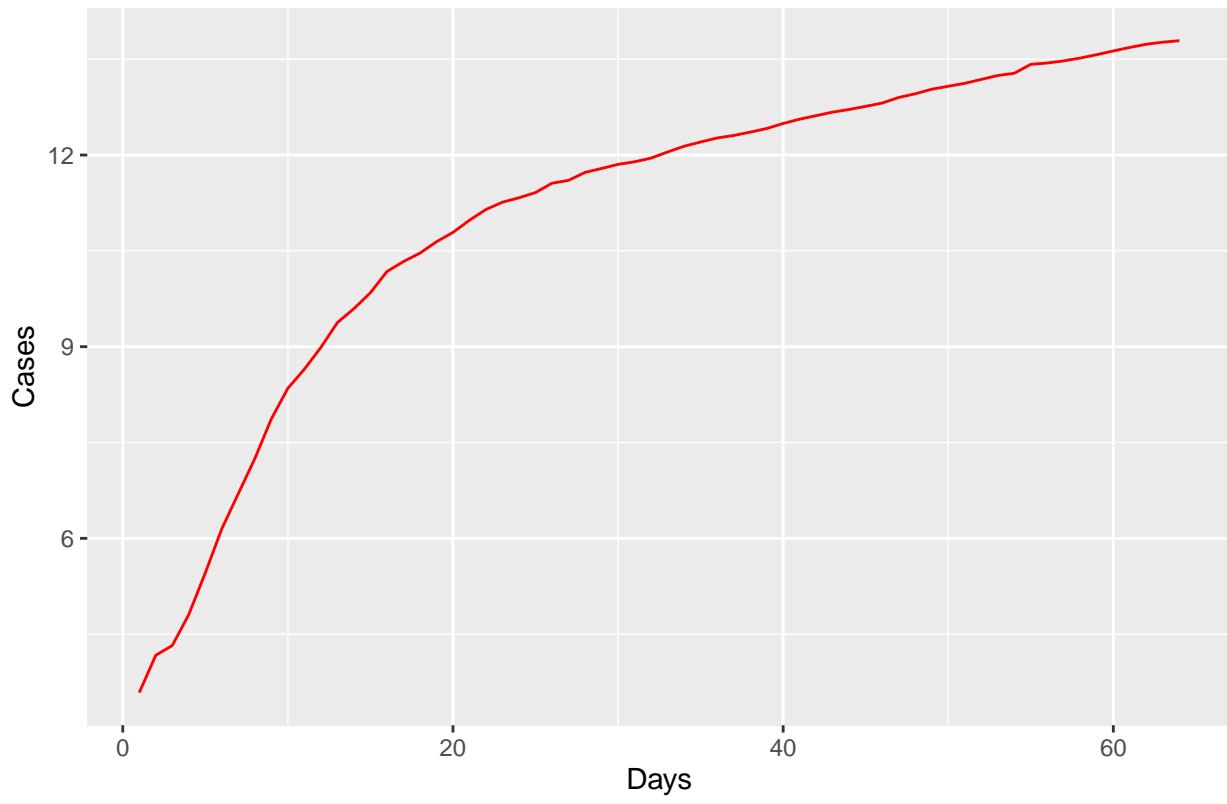
5/13/2020

## Arizona Corona Dashboard

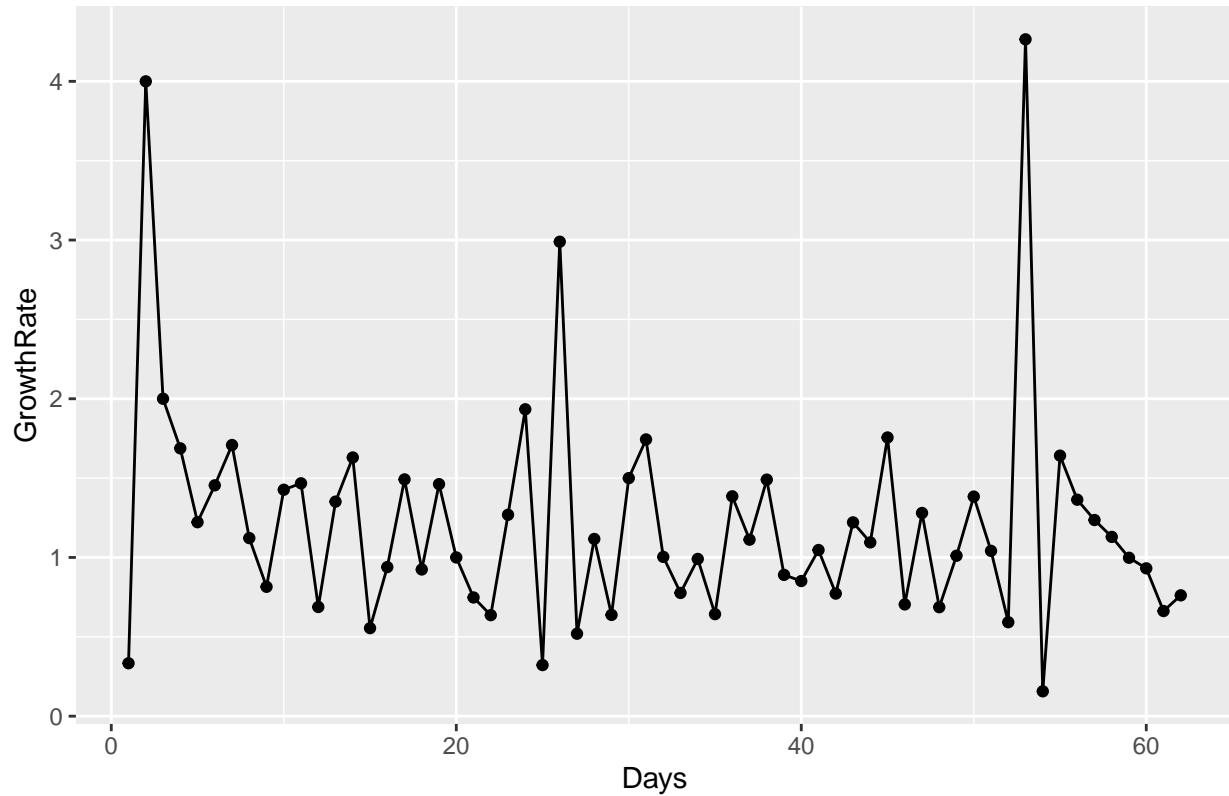
### Arizona: Daily Cases



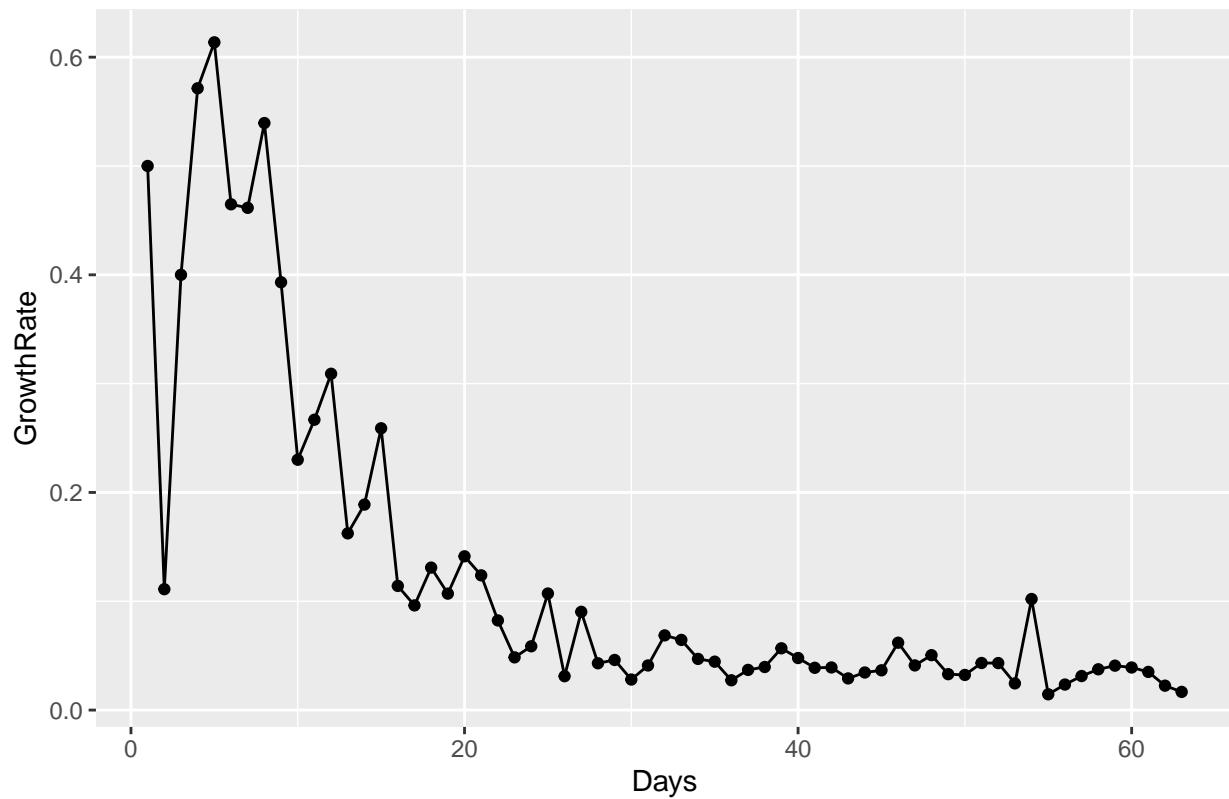
### Arizona: Daily Cases



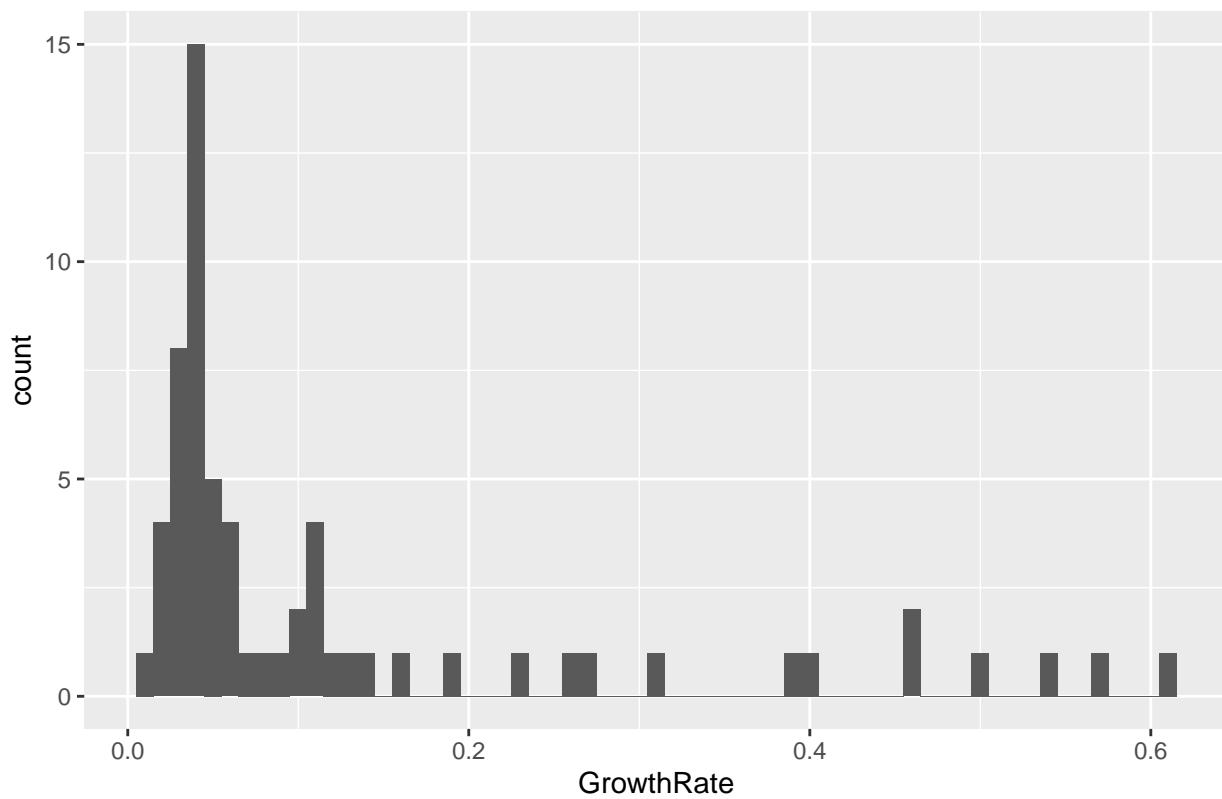
## Arizona: Rate of change in Growth Rate



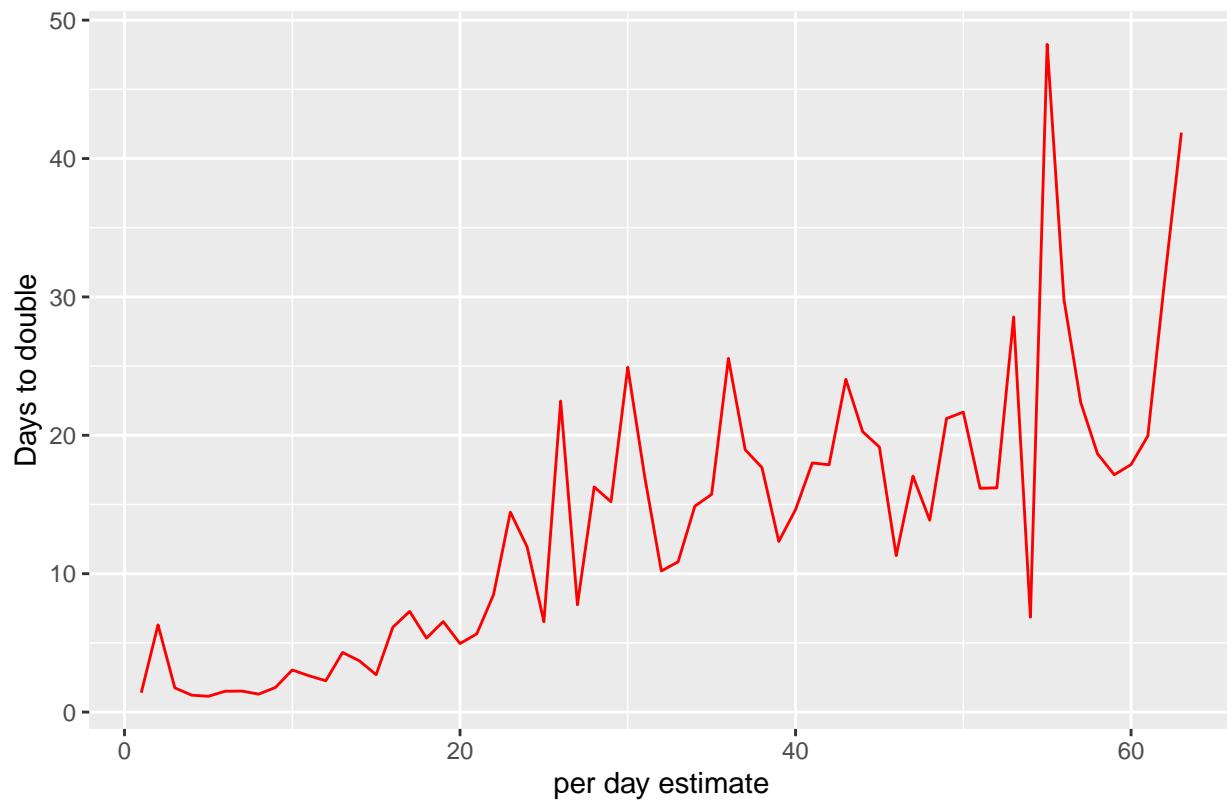
## Arizona: Growth Rate



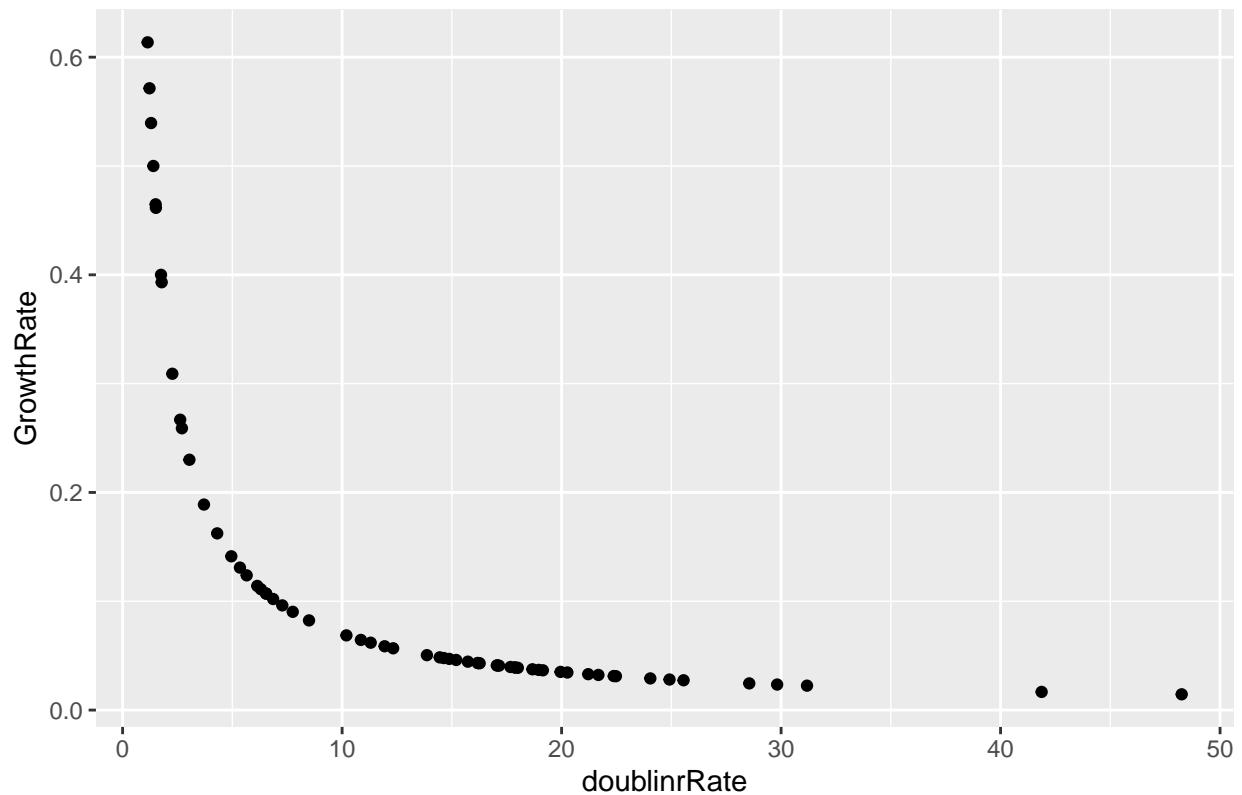
Histogram of GrowthRate



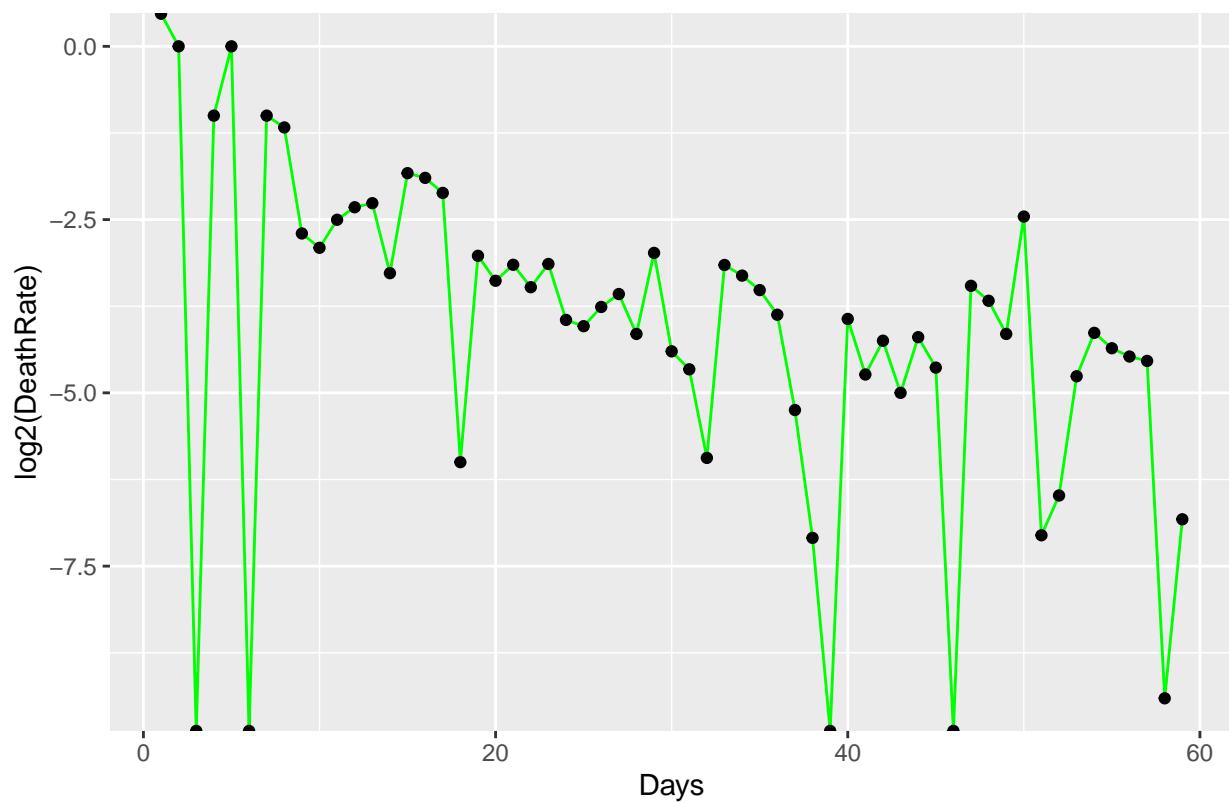
## Doubling Rate in days



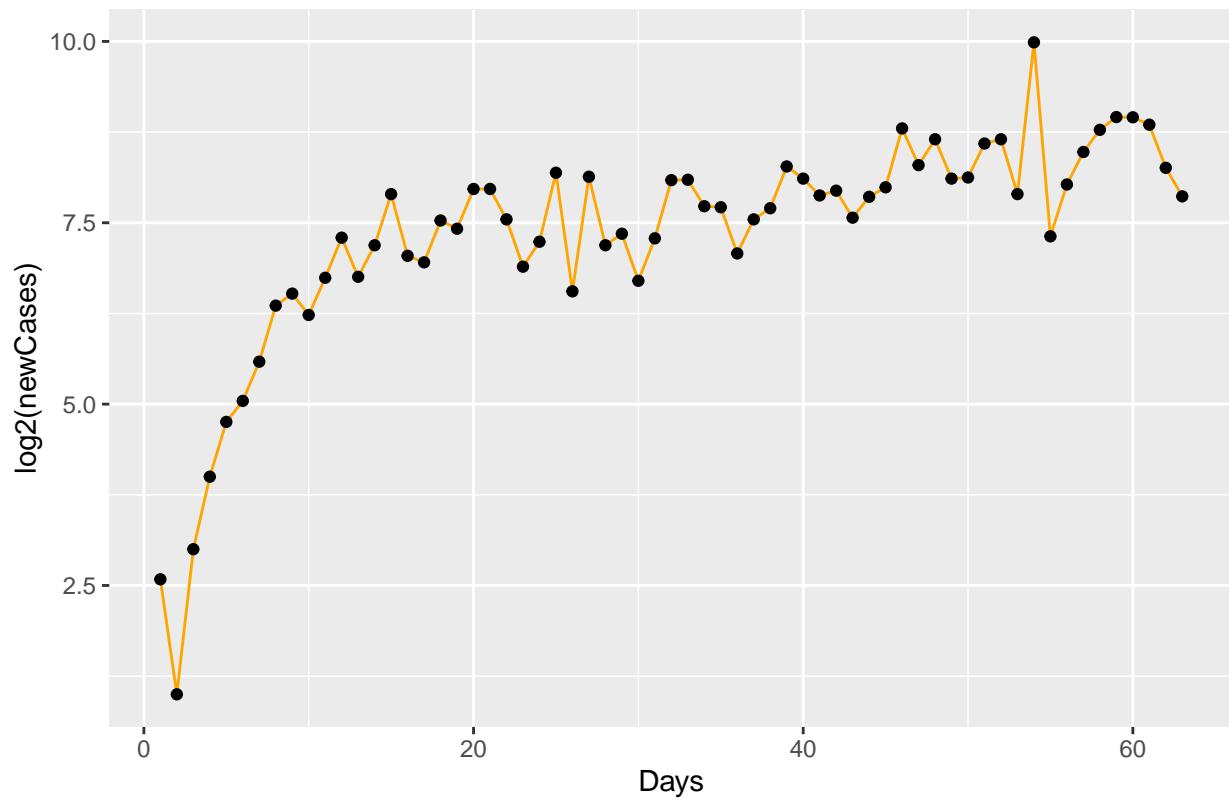
## Doubling Rate vs Growth Rate



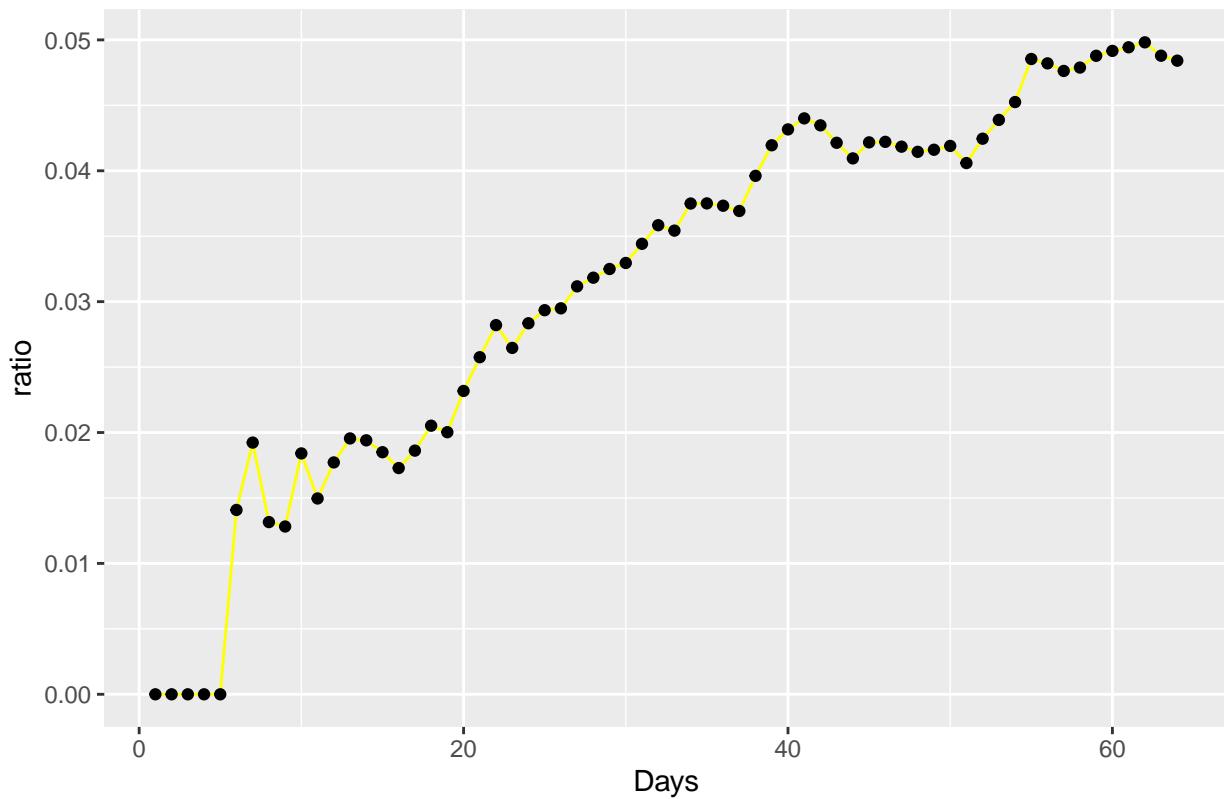
### Arizona: Daily Death Rate



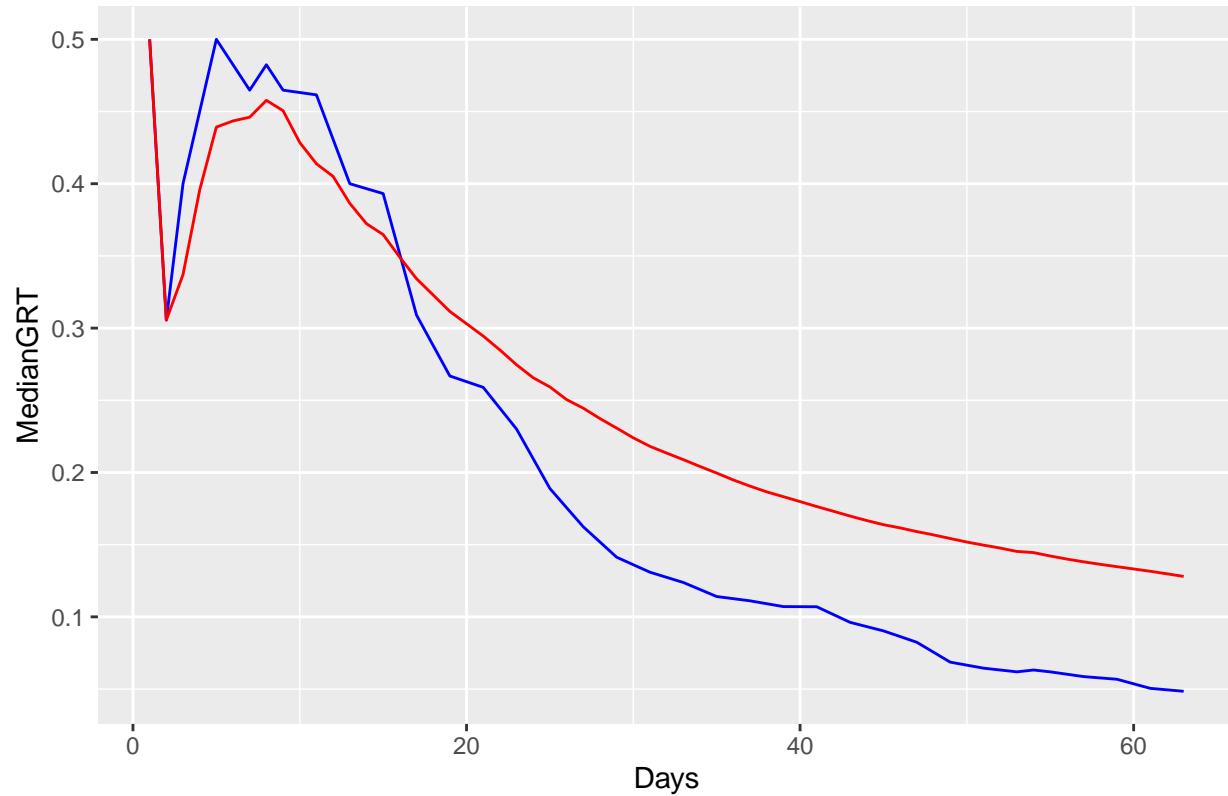
Arizona:newCases(Orange)



### Arizona: TotalDeaths/TotalCases



## Arizona Median(BLUE)VsMean(RED) Growth Rate

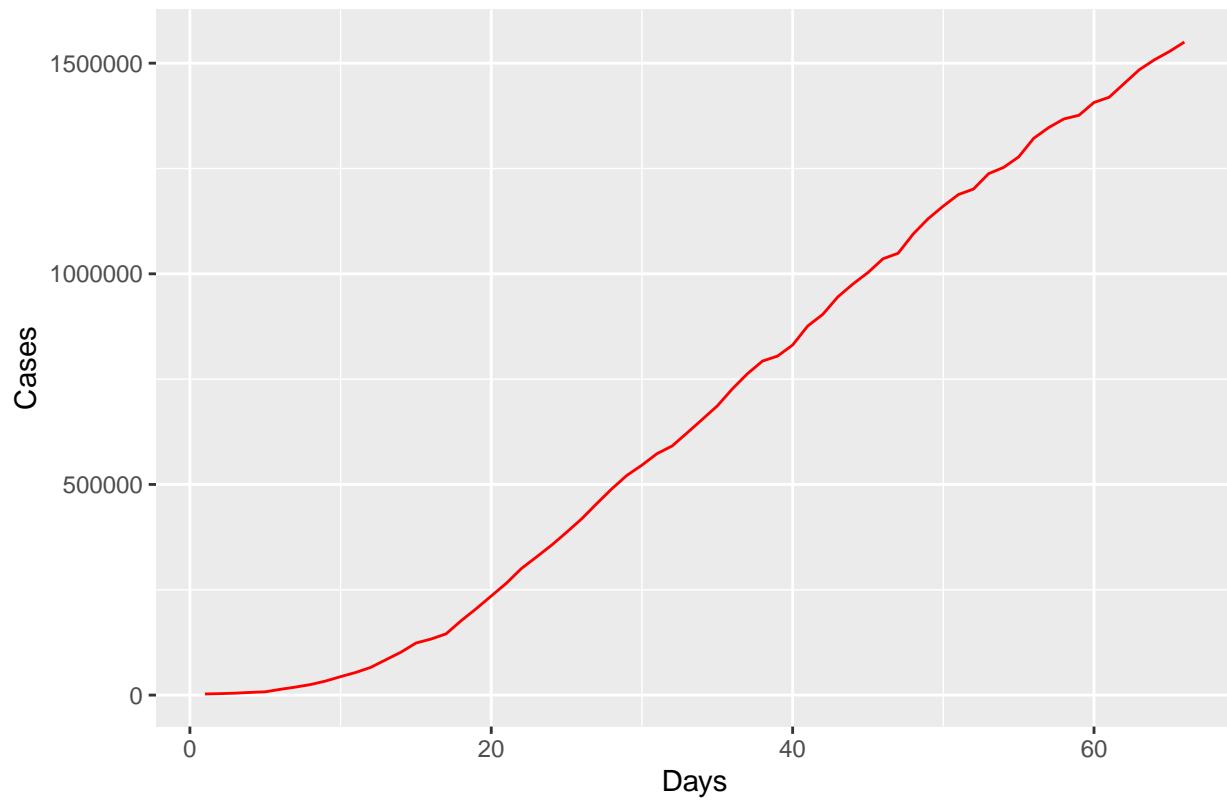


### Results:

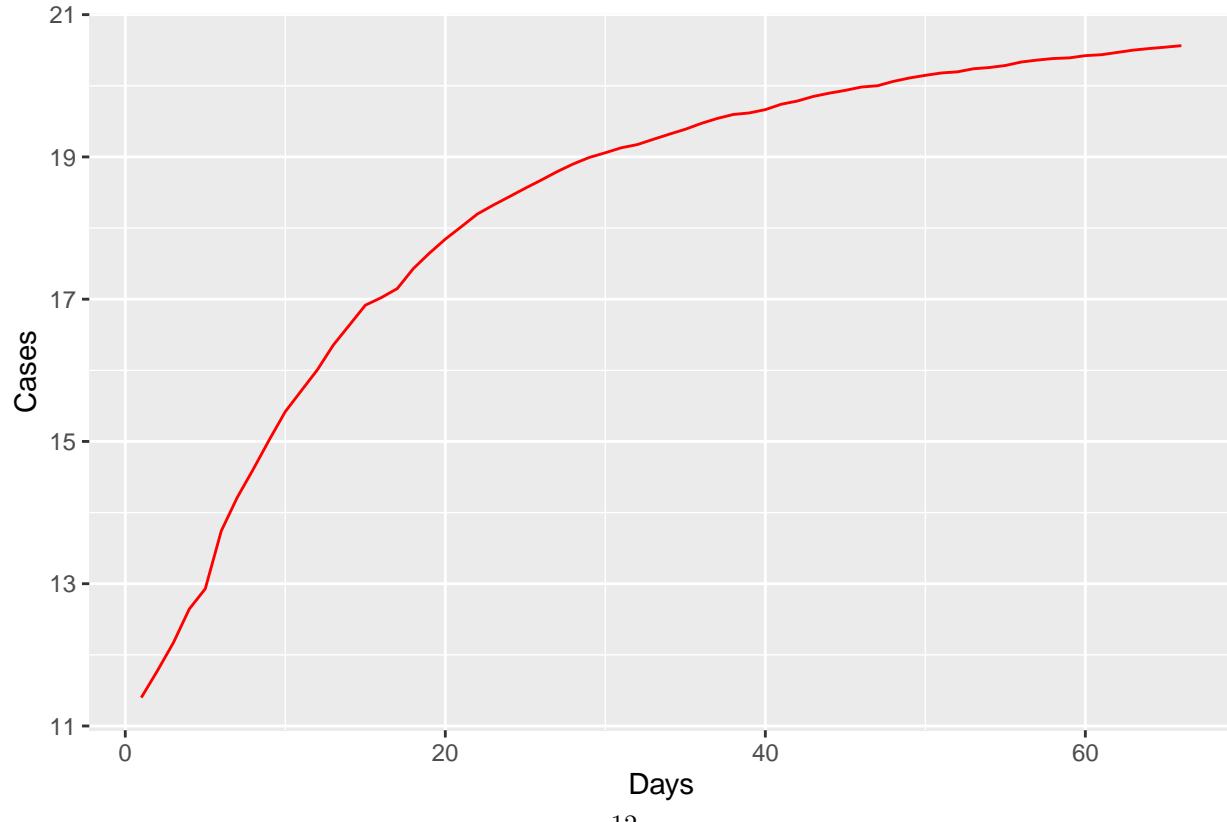
- Tomorrows predicted case number is between  $1.4406895 \times 10^4$  and  $1.5984036 \times 10^4$  cases.
- Current doubling rate is **42 days**
- Mean doubling rate, i.e number of cases doubles every **5 days**.
- Median doubling rate, i.e number of cases doubles every **14 days**.
- Latest Observed Growth Rate **1.6718089** percent.
- Mean Growth Rate: **12.8019456** percent.
- Median Growth Rate: **4.8452769** percent.
- Standard deviation: +/- **15.5756305**.

## US Corona Dashboard

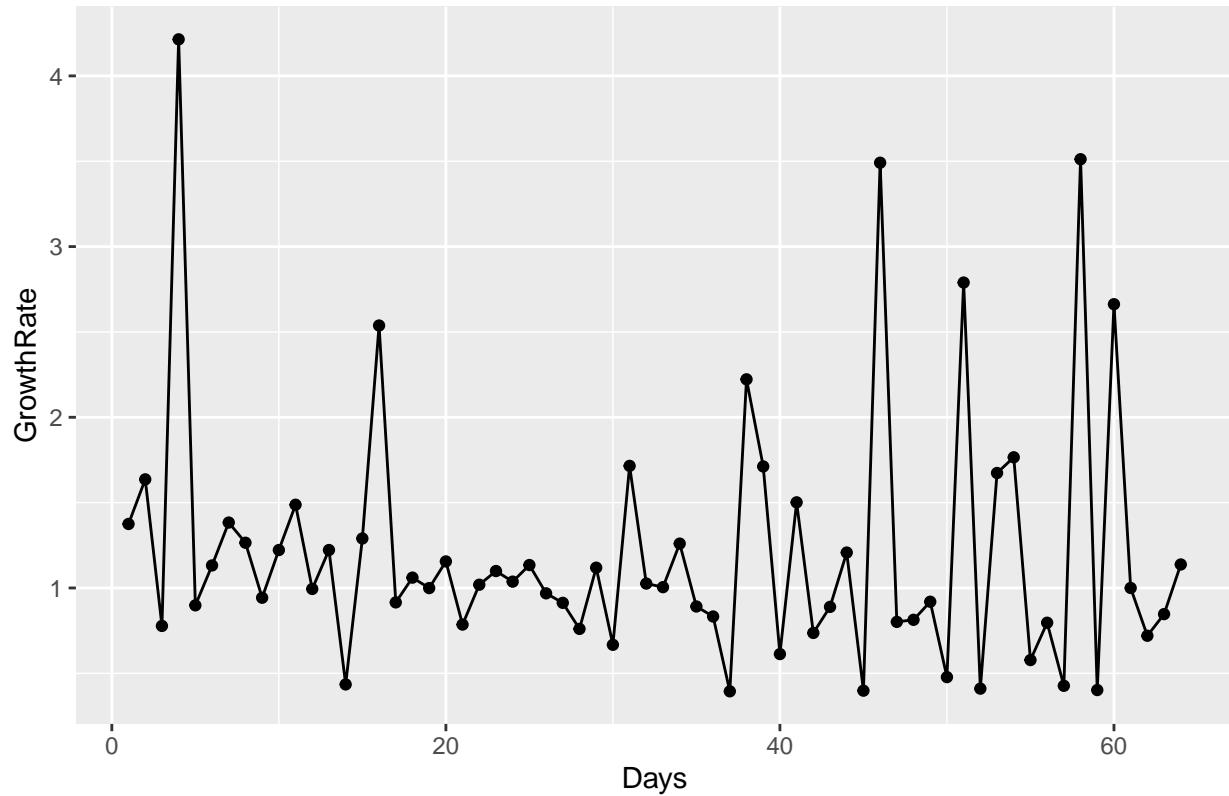
### US: Daily Cases



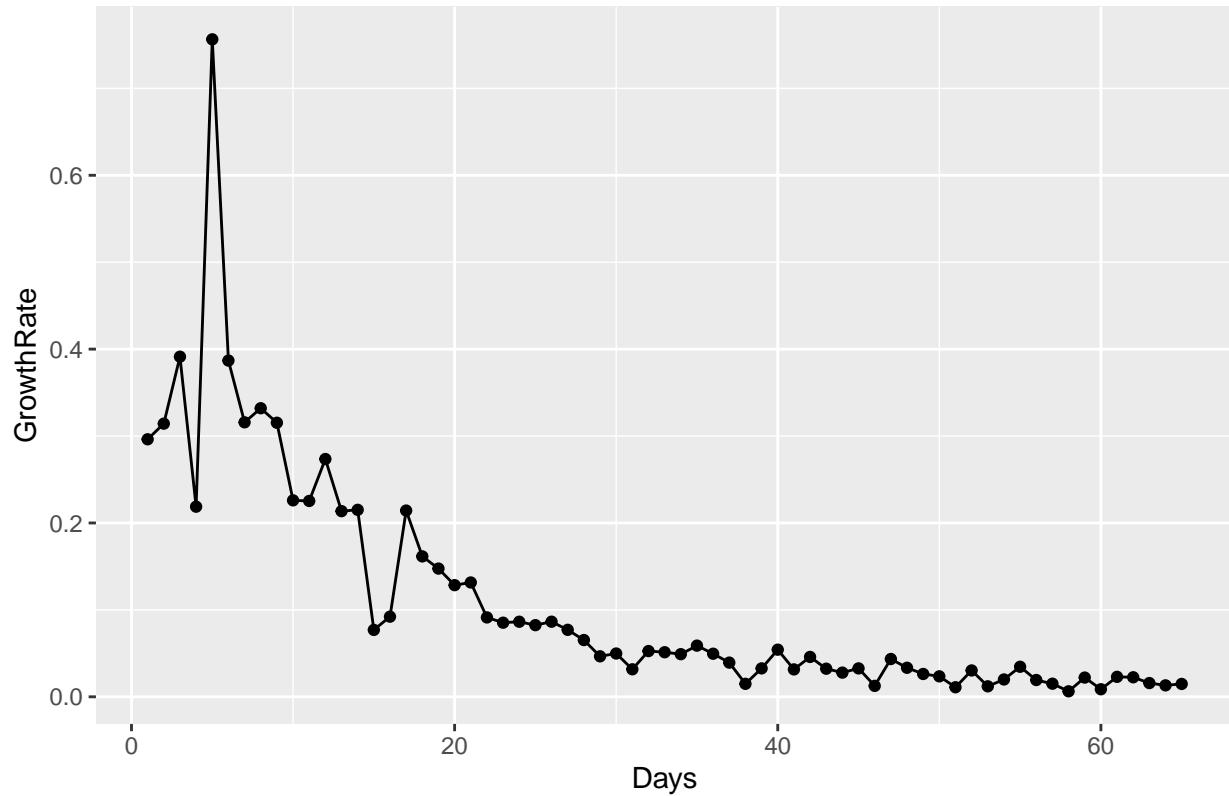
### US: Daily Cases



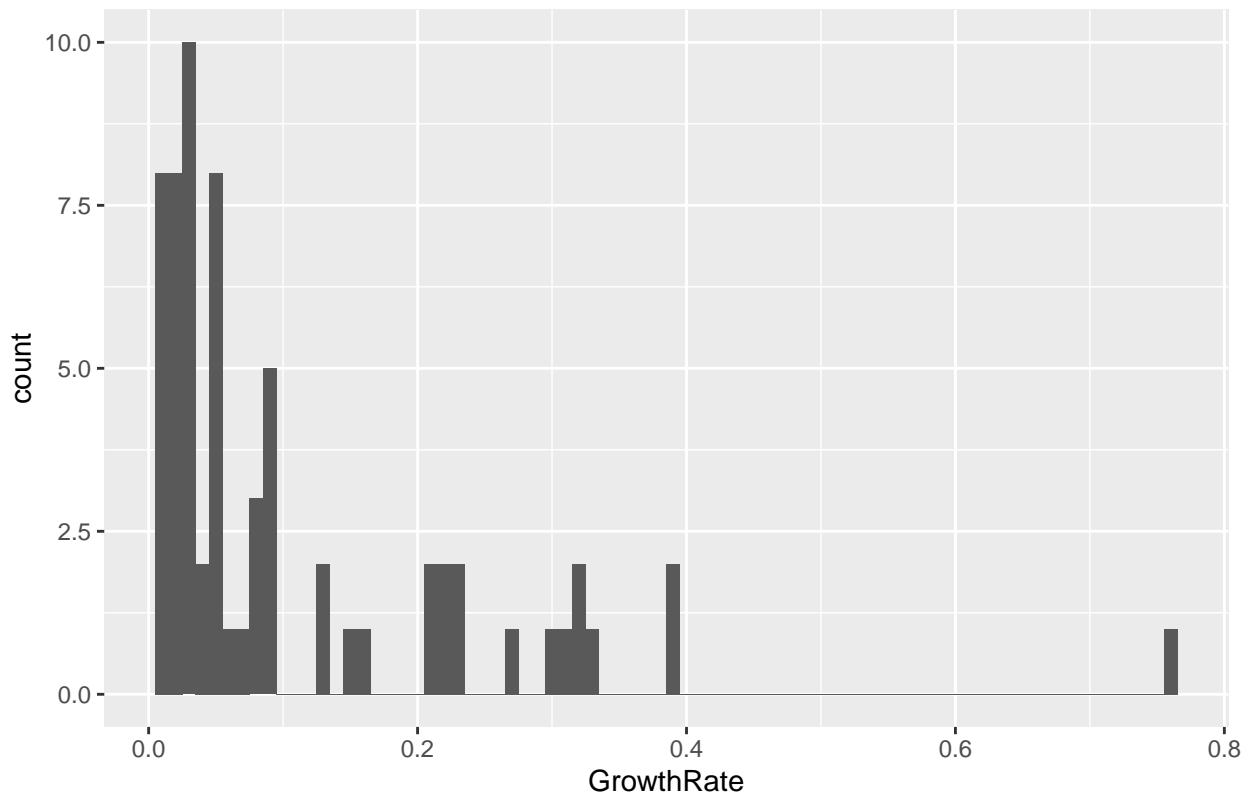
### US: Rate of change in Growth Rate



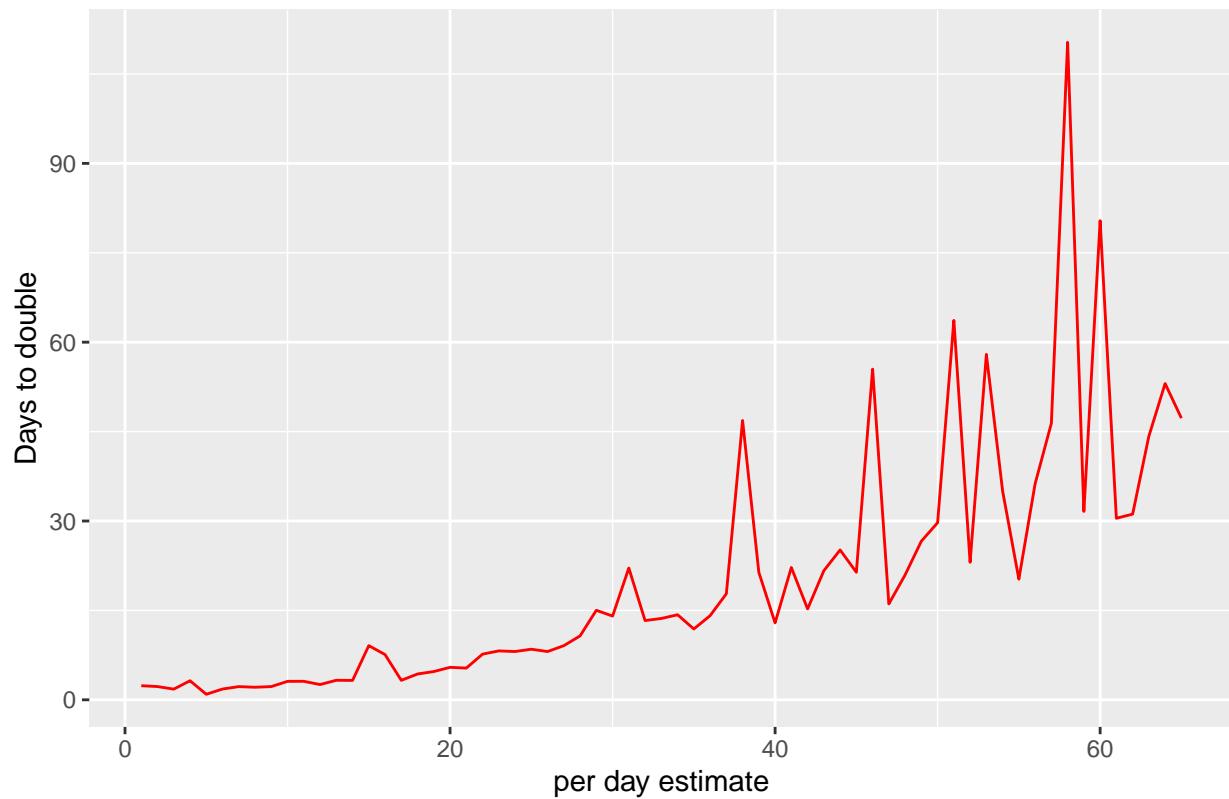
## US: Growth Rate



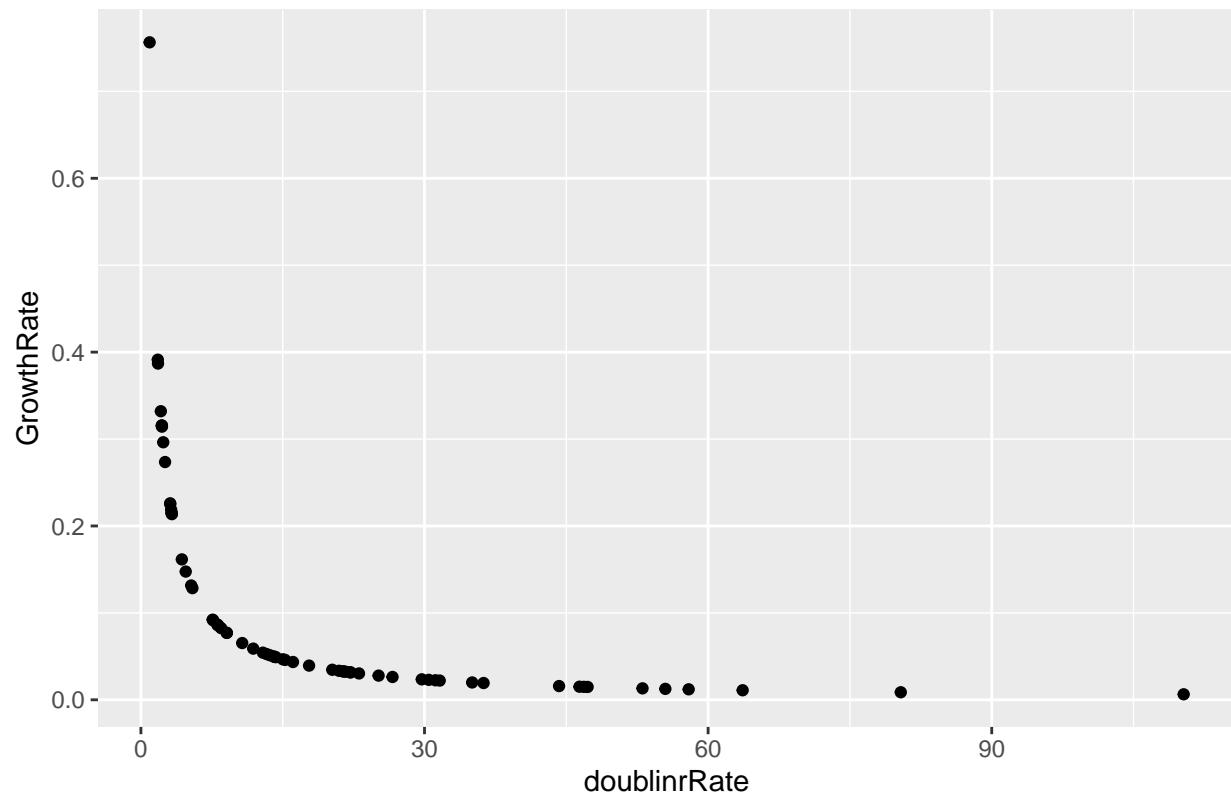
Histogram of GrowthRate



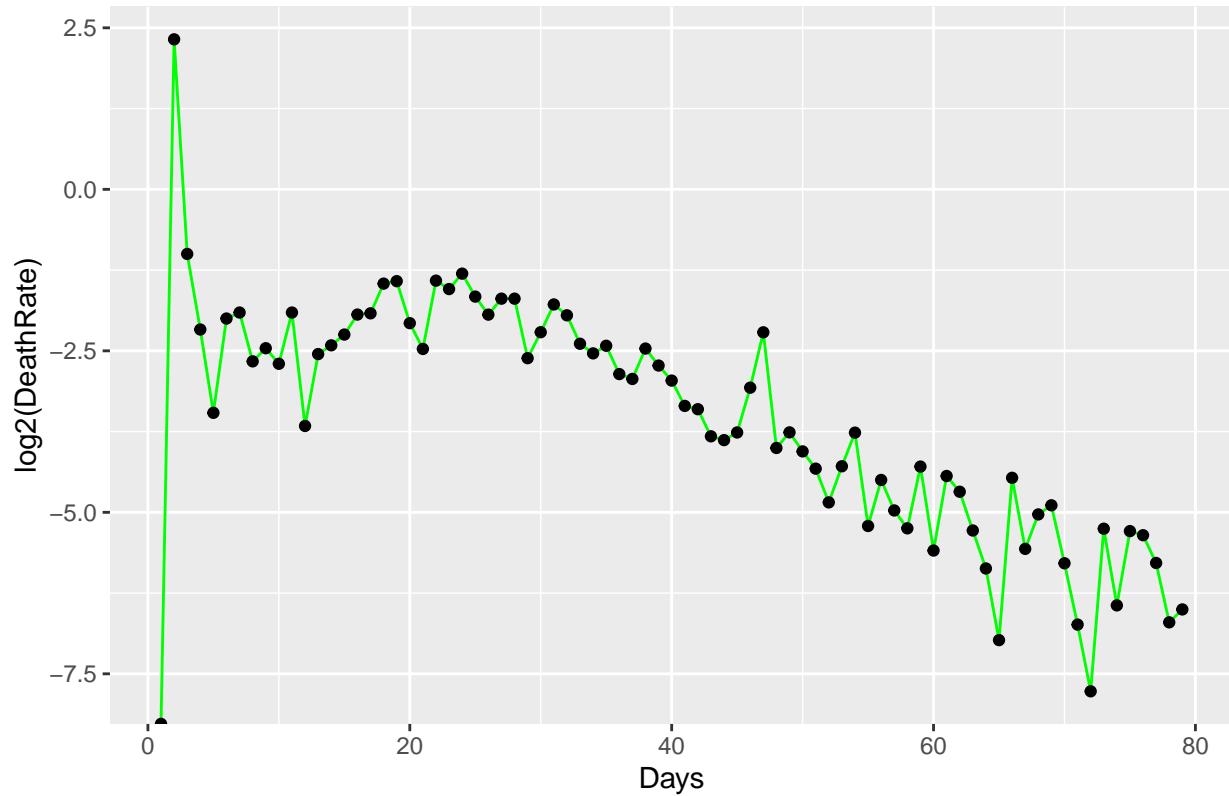
## Doubling Rate in days



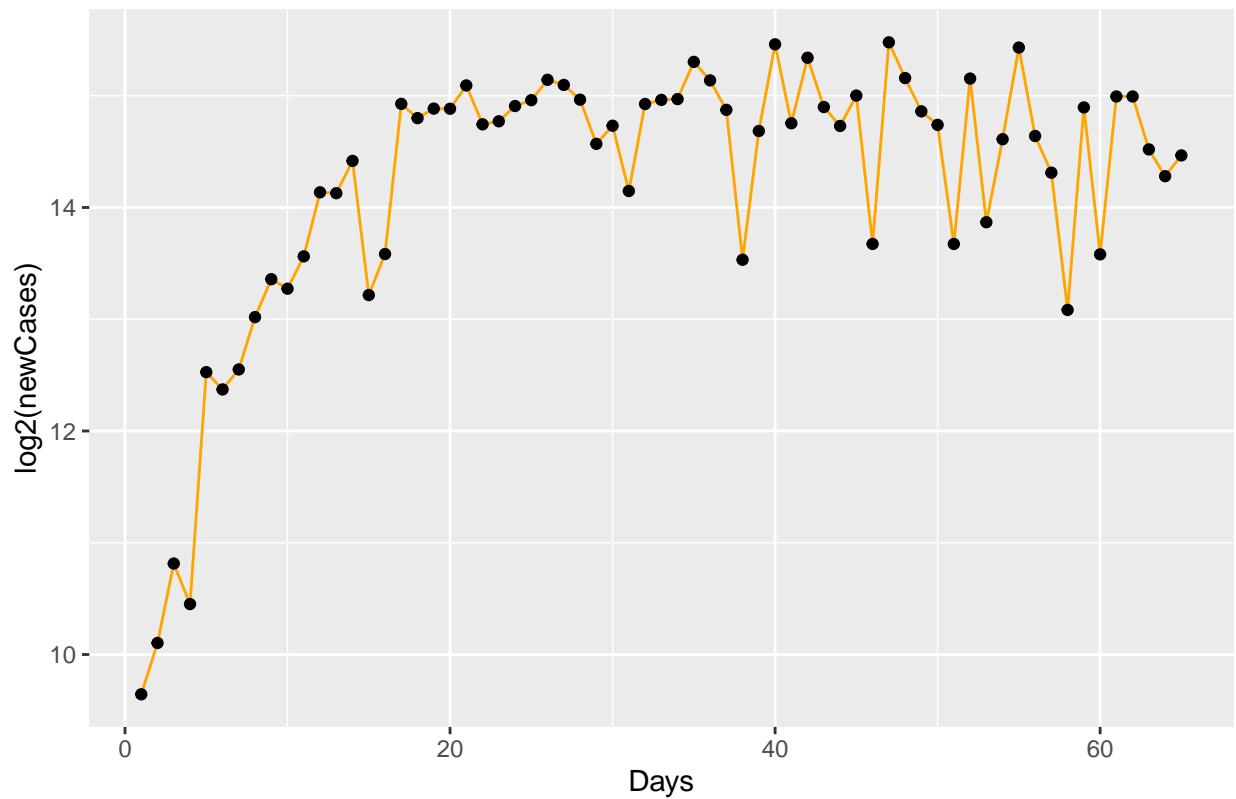
## Doubling Rate vs Growth Rate



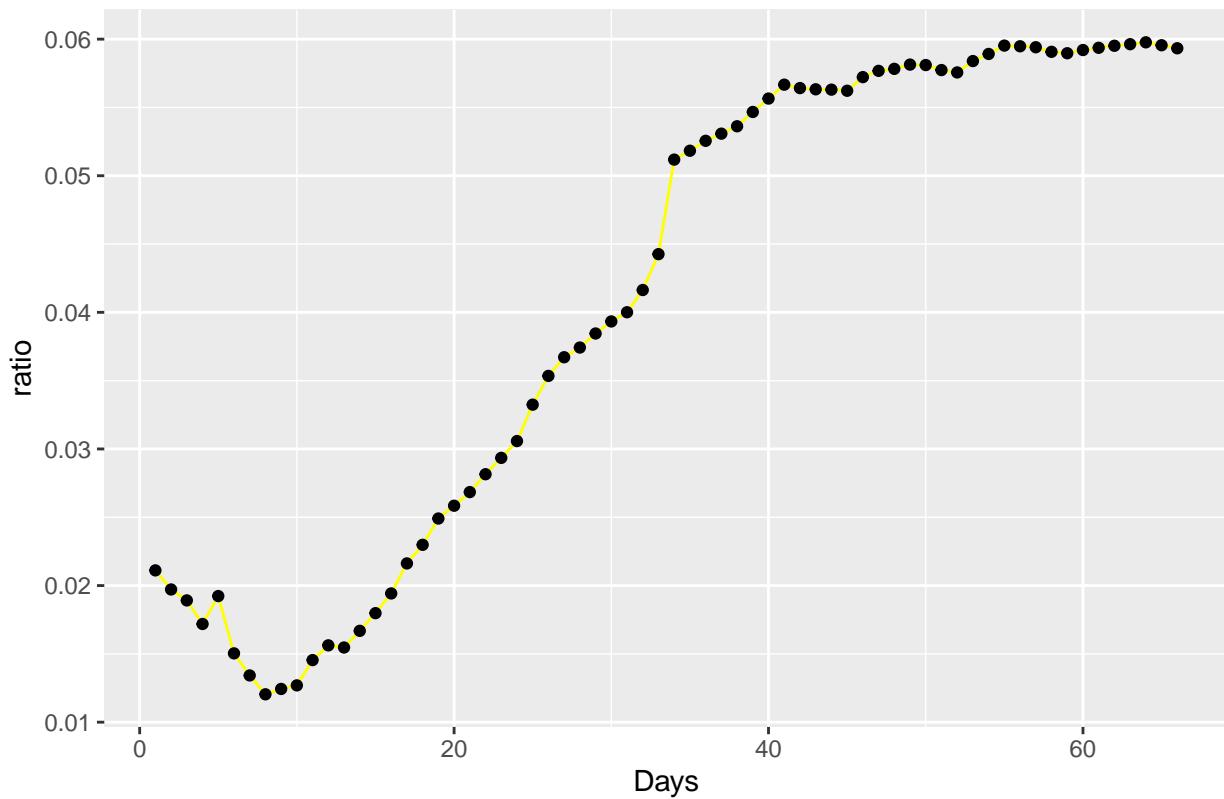
## US: Daily Death Rate



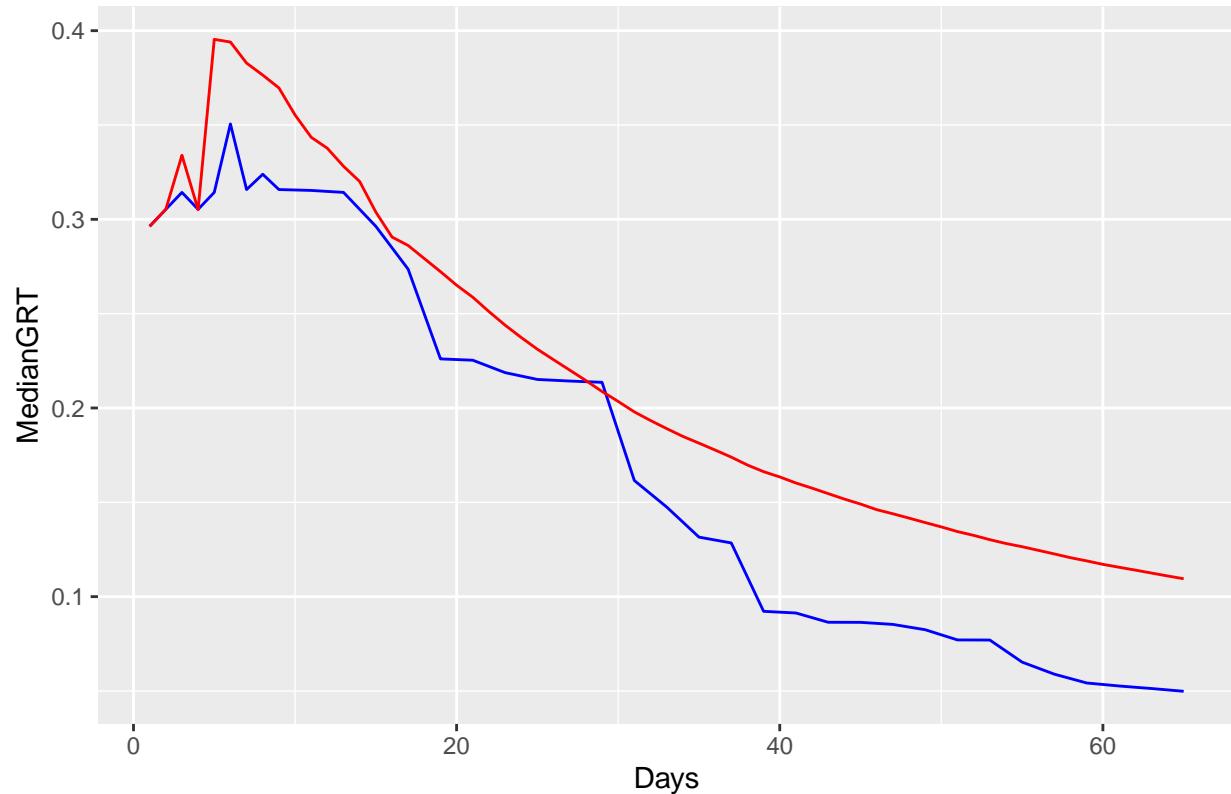
US:newCases(Orange)



### US: TotalDeaths/TotalCases



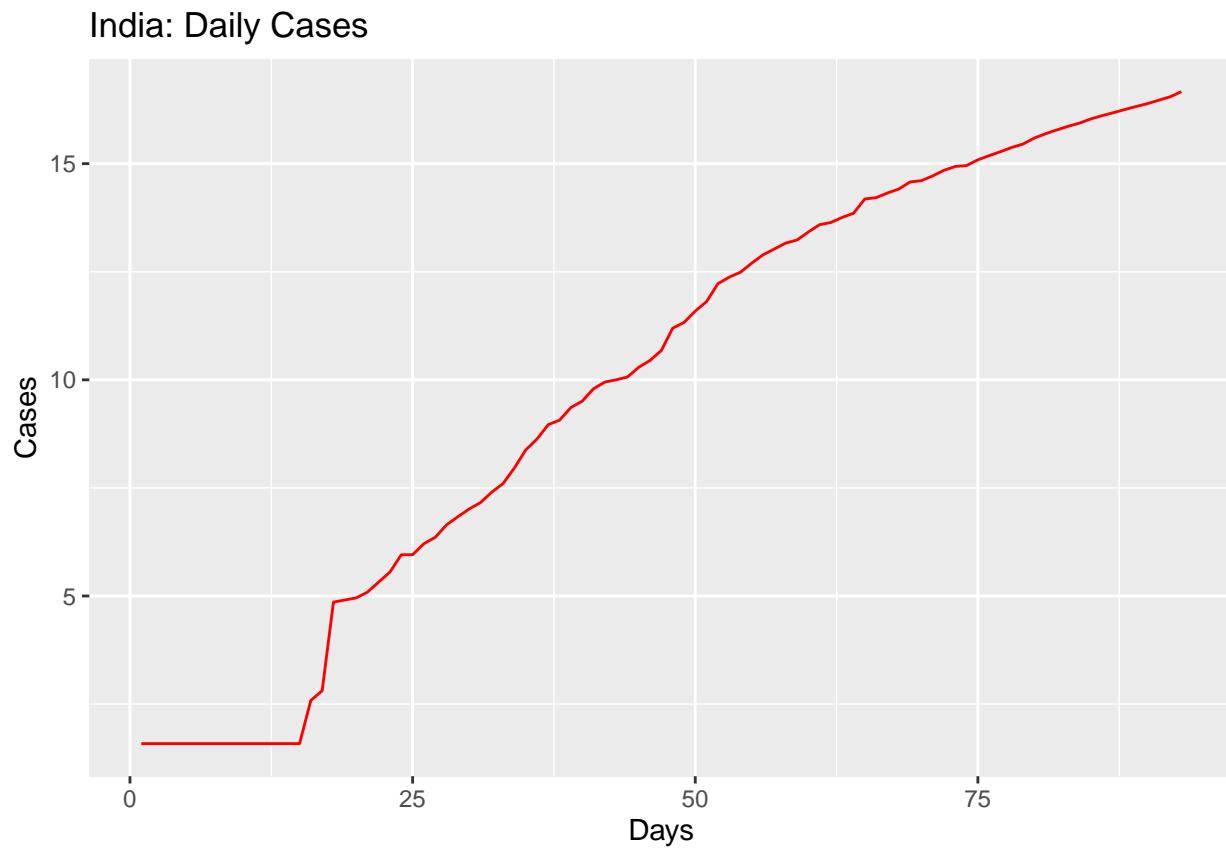
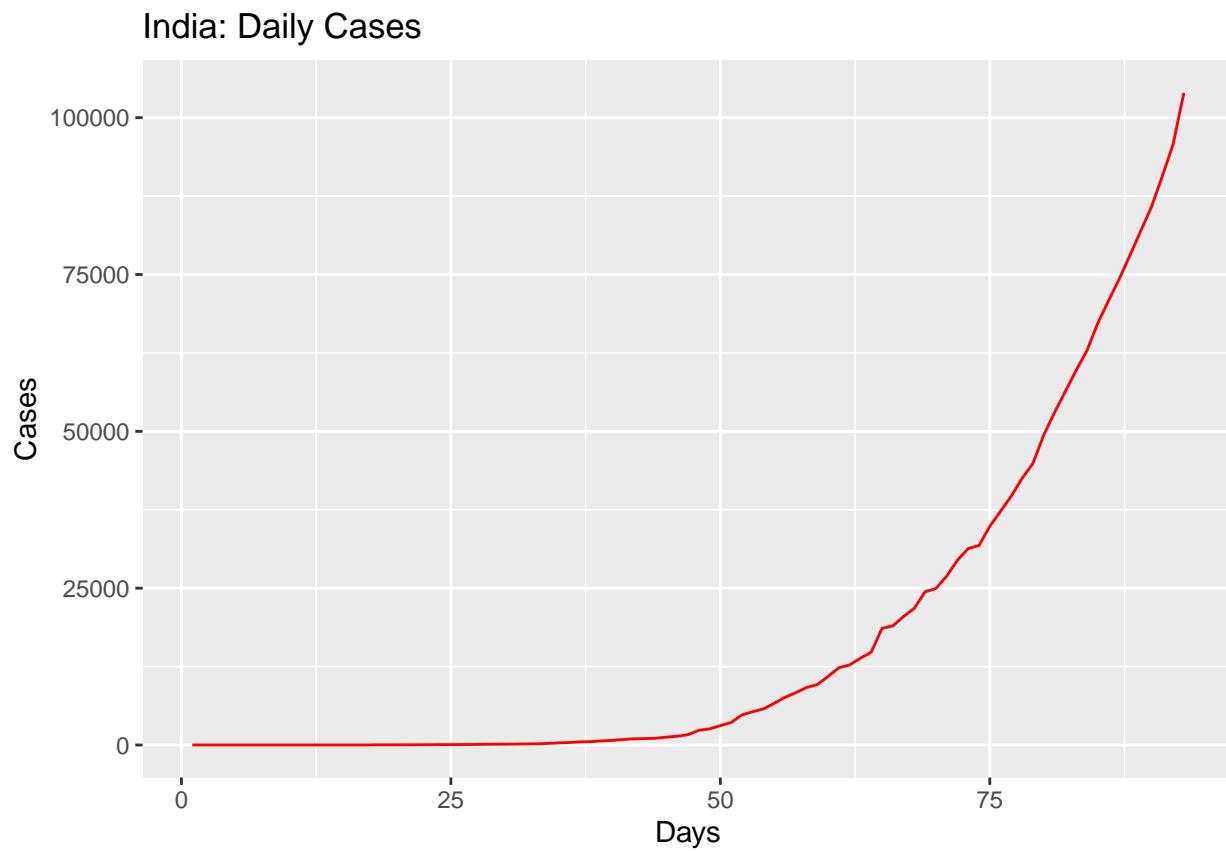
### US Median(BLUE)VsMean(RED) Growth Rate



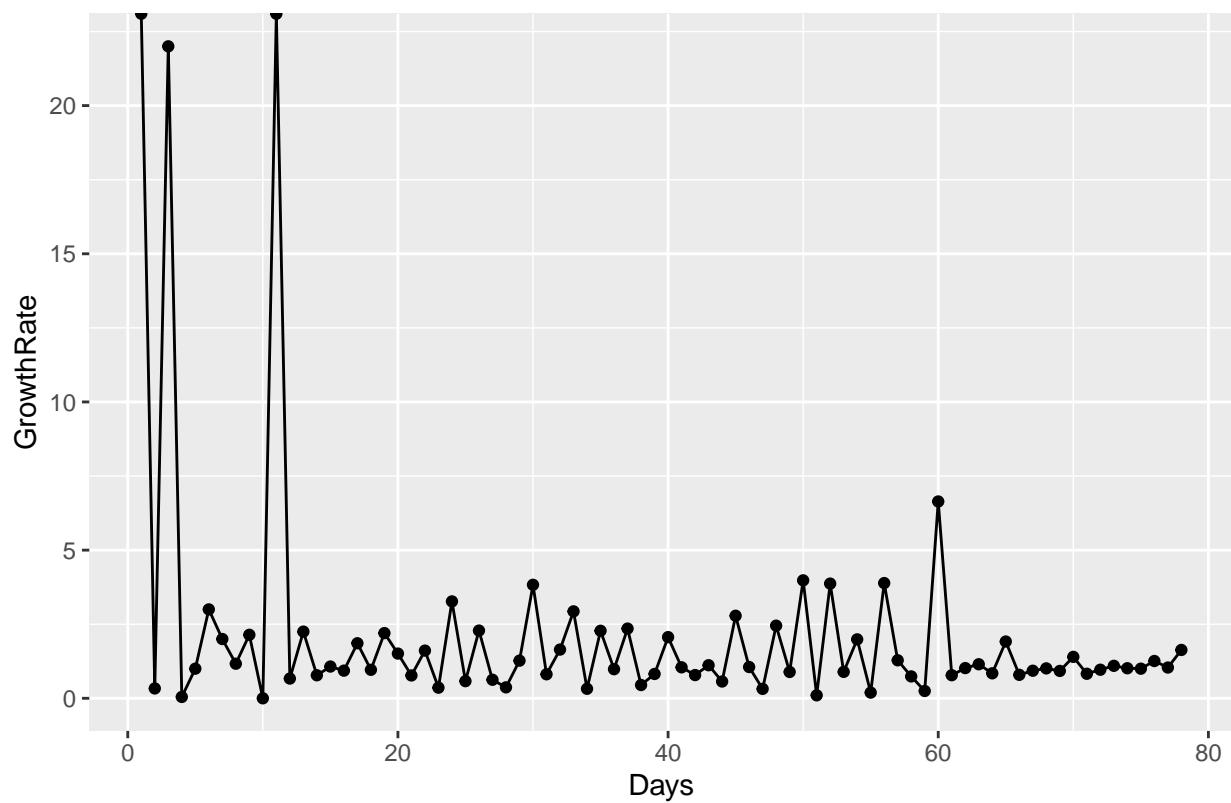
#### Results:

- Tomorrows predicted case number is between  $1.5732592 \times 10^6$  and  $1.7200345 \times 10^6$  cases.
- Current doubling rate is **47 days**
- Mean doubling rate, i.e number of cases doubles every **6 days**.
- Median doubling rate, i.e number of cases doubles every **14 days**.
- Latest Observed Growth Rate **1.4813467** percent.
- Mean Growth Rate: **10.9489255** percent.
- Median Growth Rate: **4.9830199** percent.
- Standard deviation: +/- **13.3400371**.

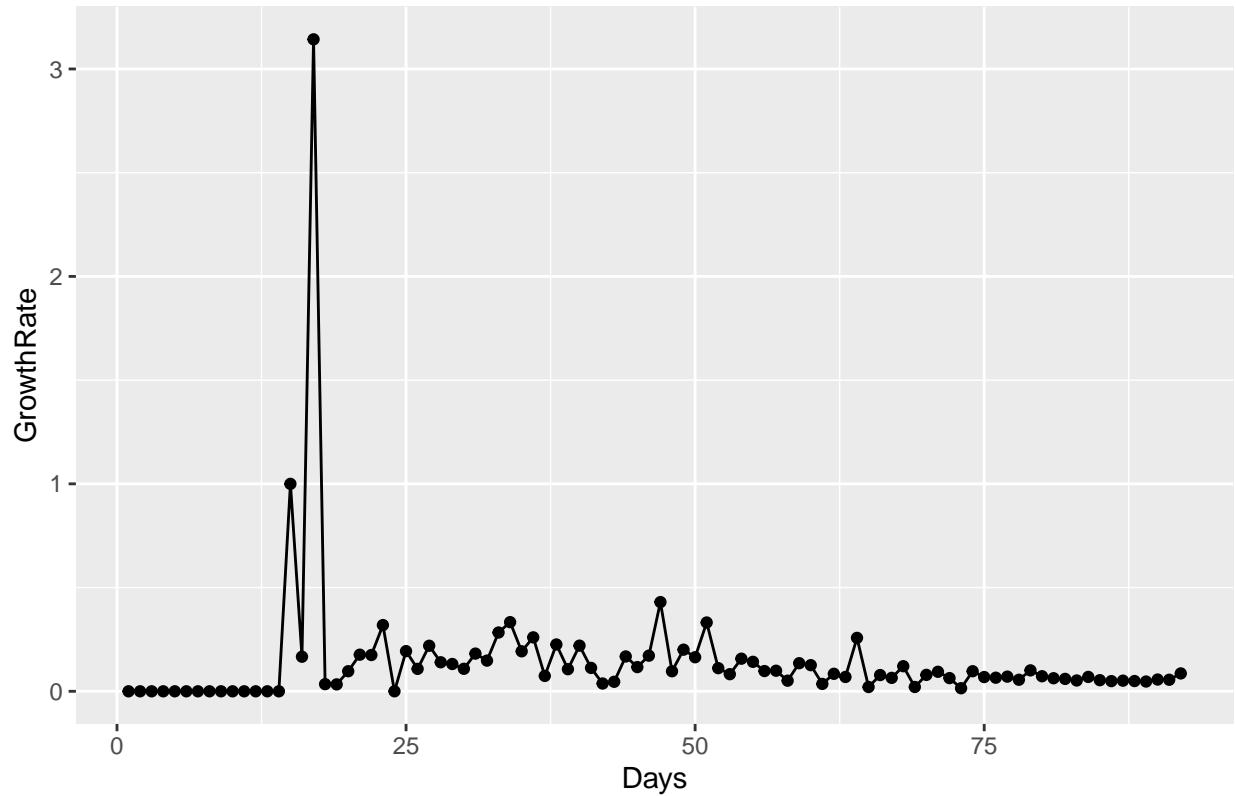
## India Corona Dashboard



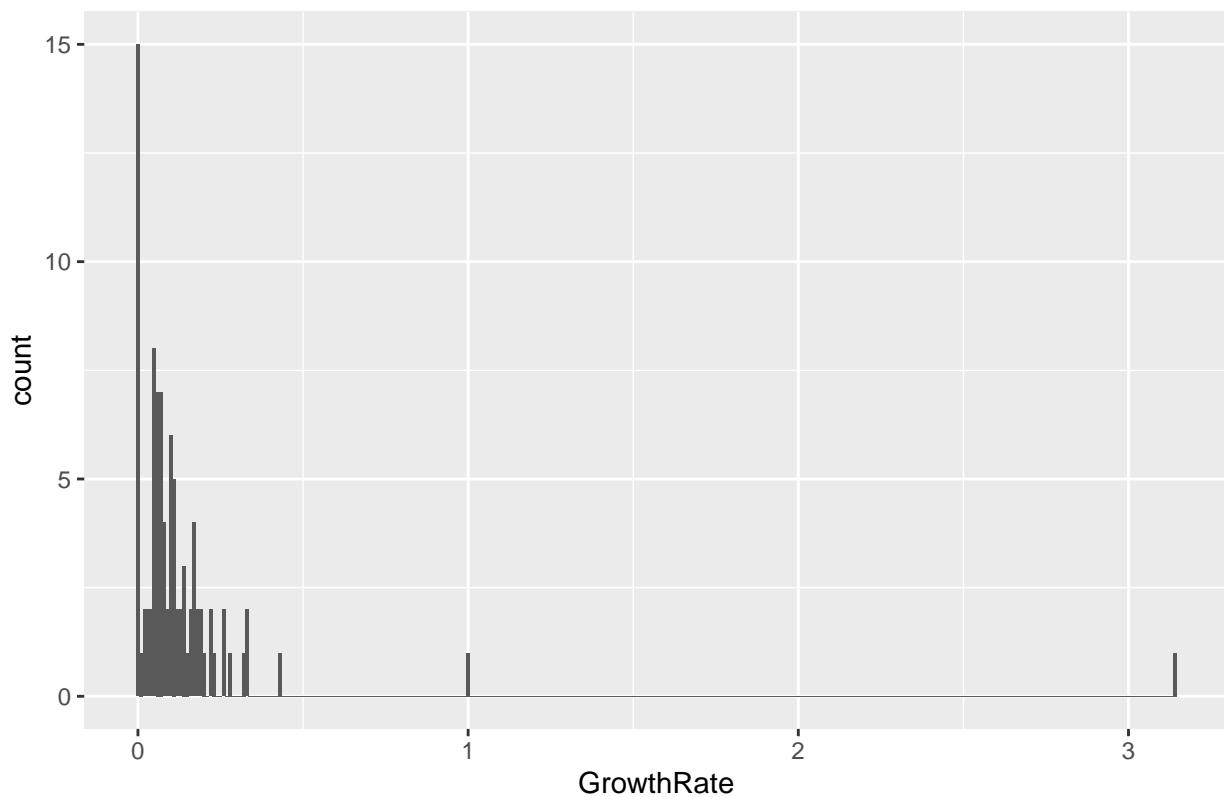
### US: Rate of change in Growth Rate



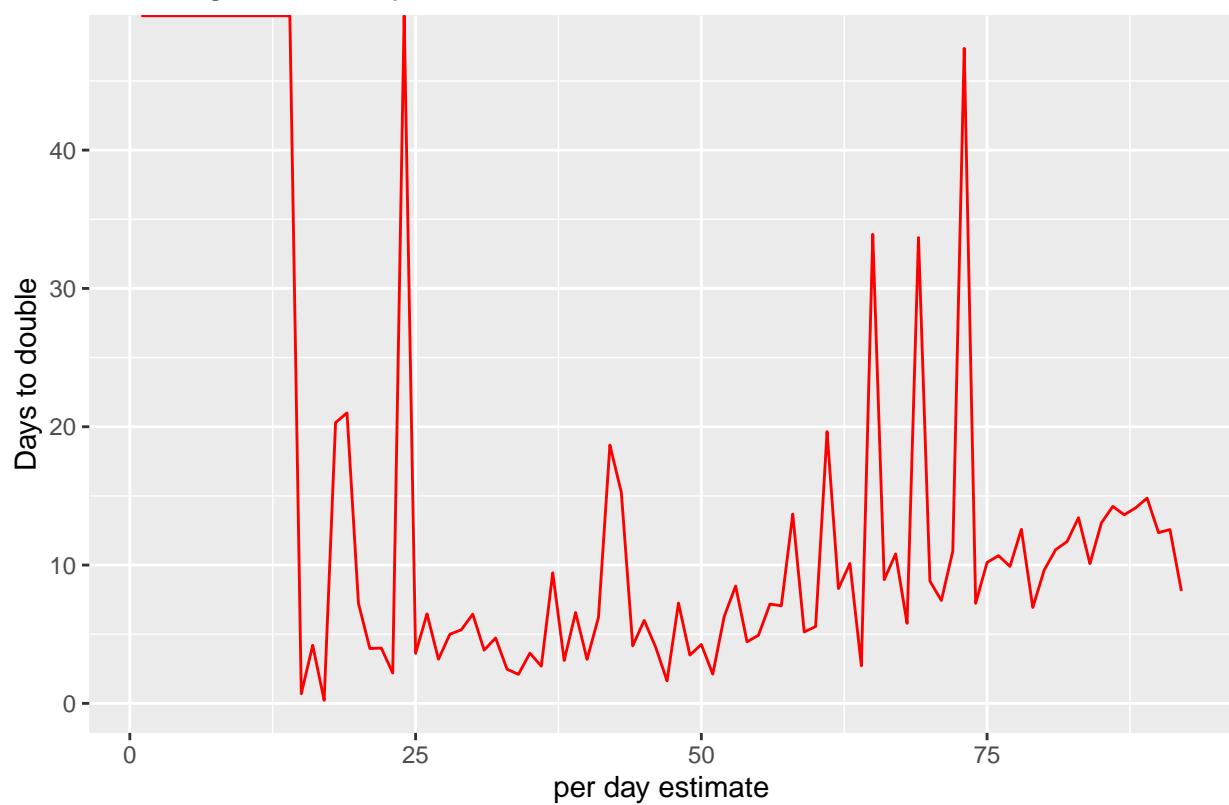
## India: Growth Rate



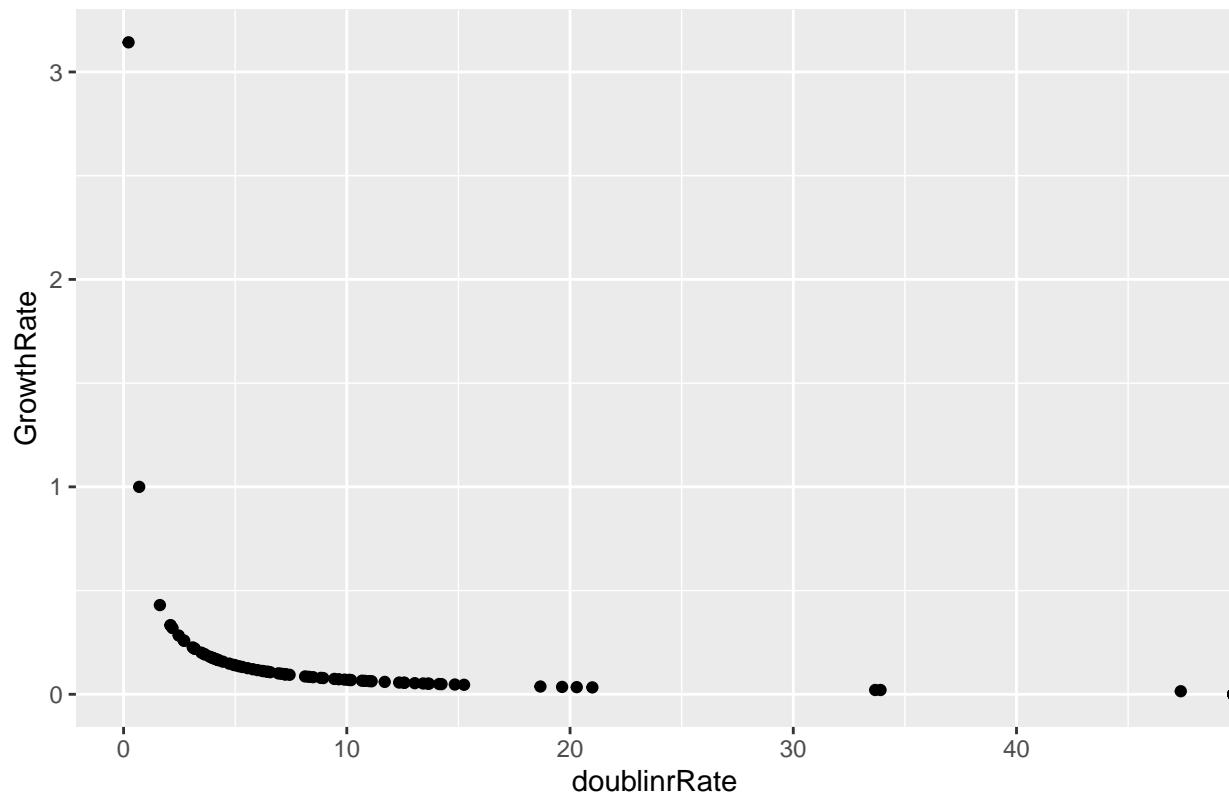
Histogram of GrowthRate



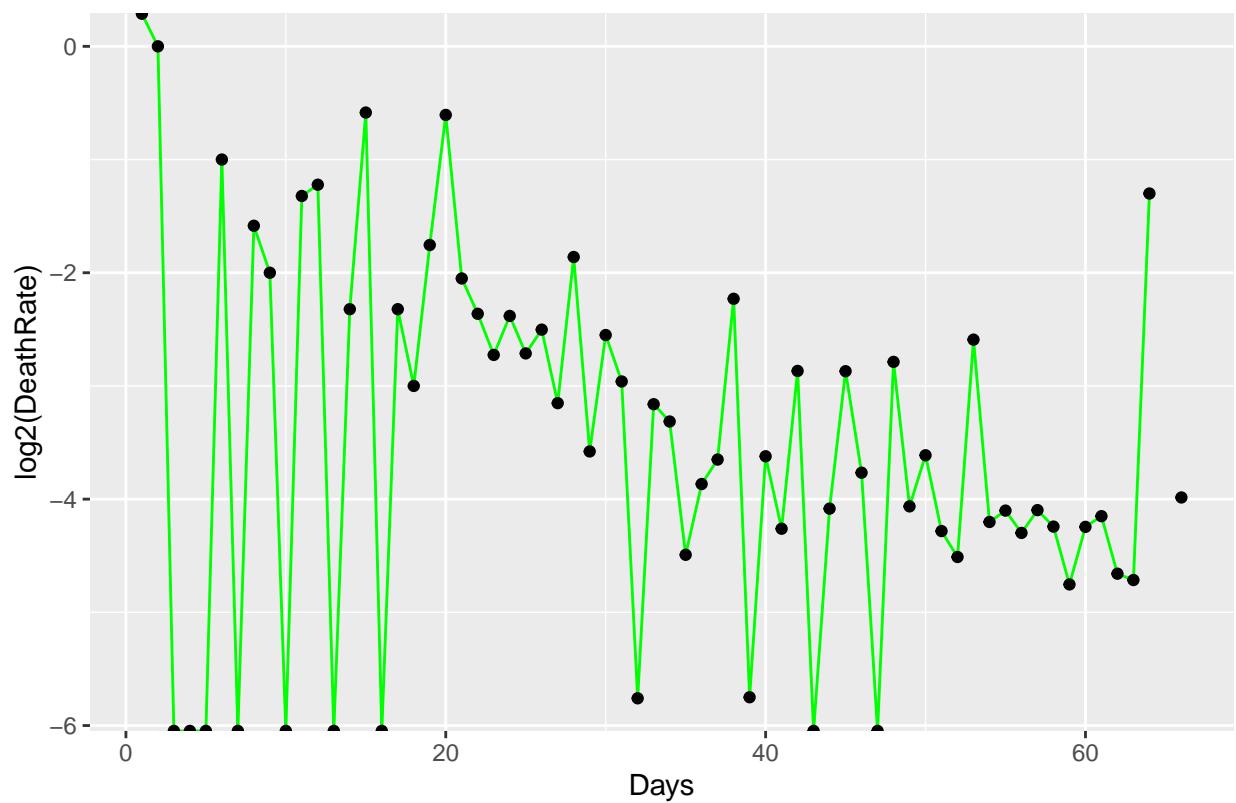
### Doubling Rate in days



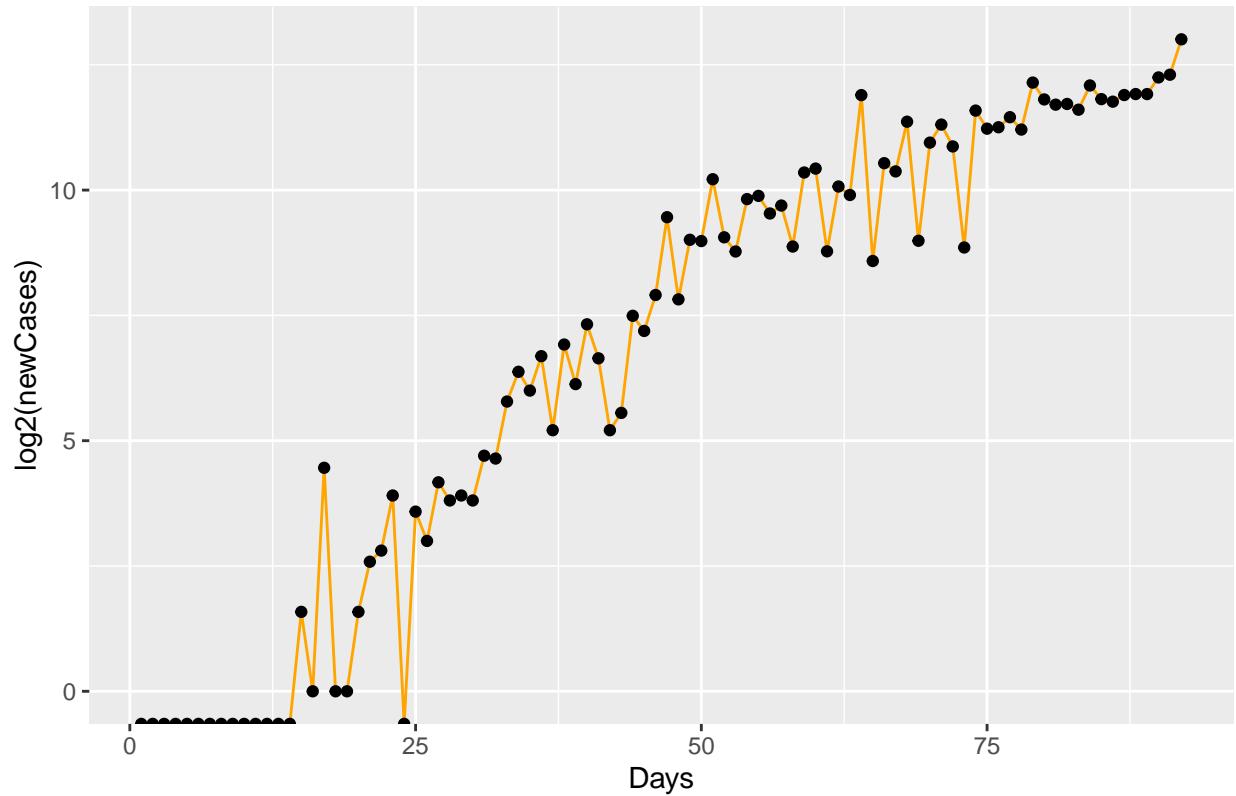
## Doubling Rate vs Growth Rate



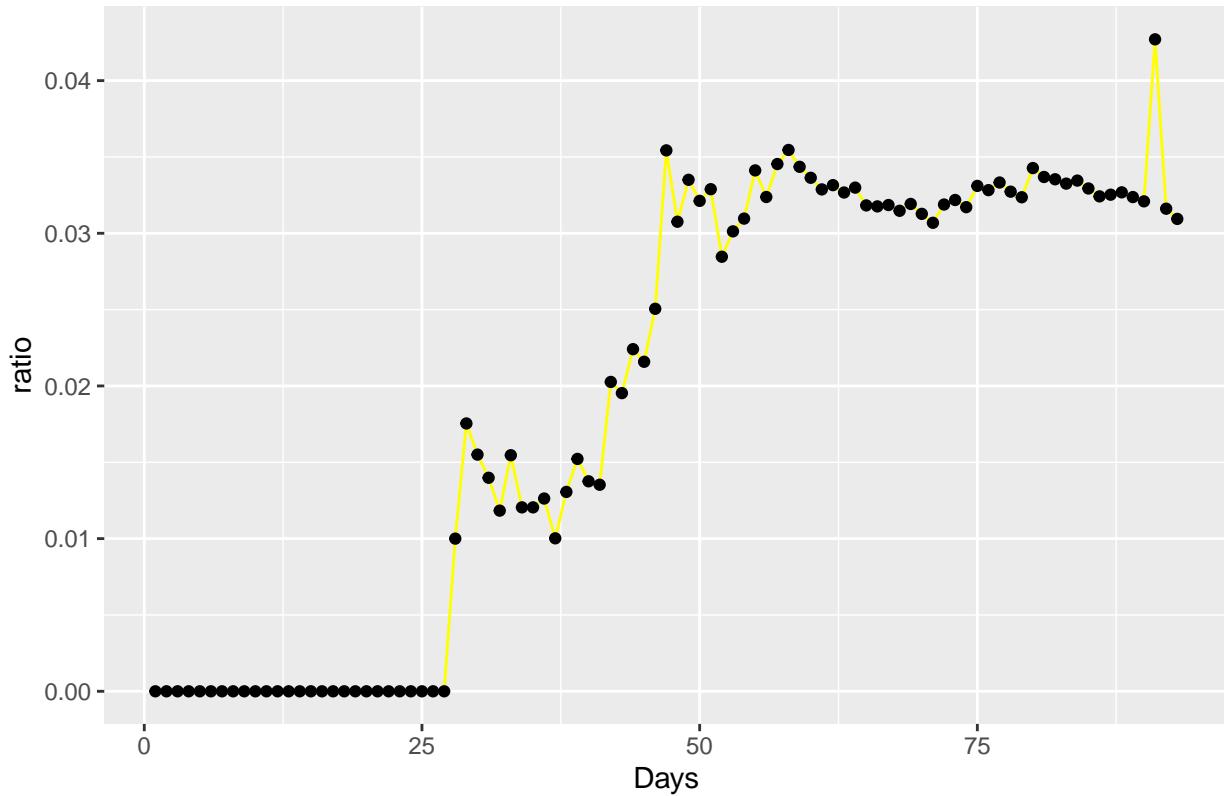
### India: Daily Death Rate



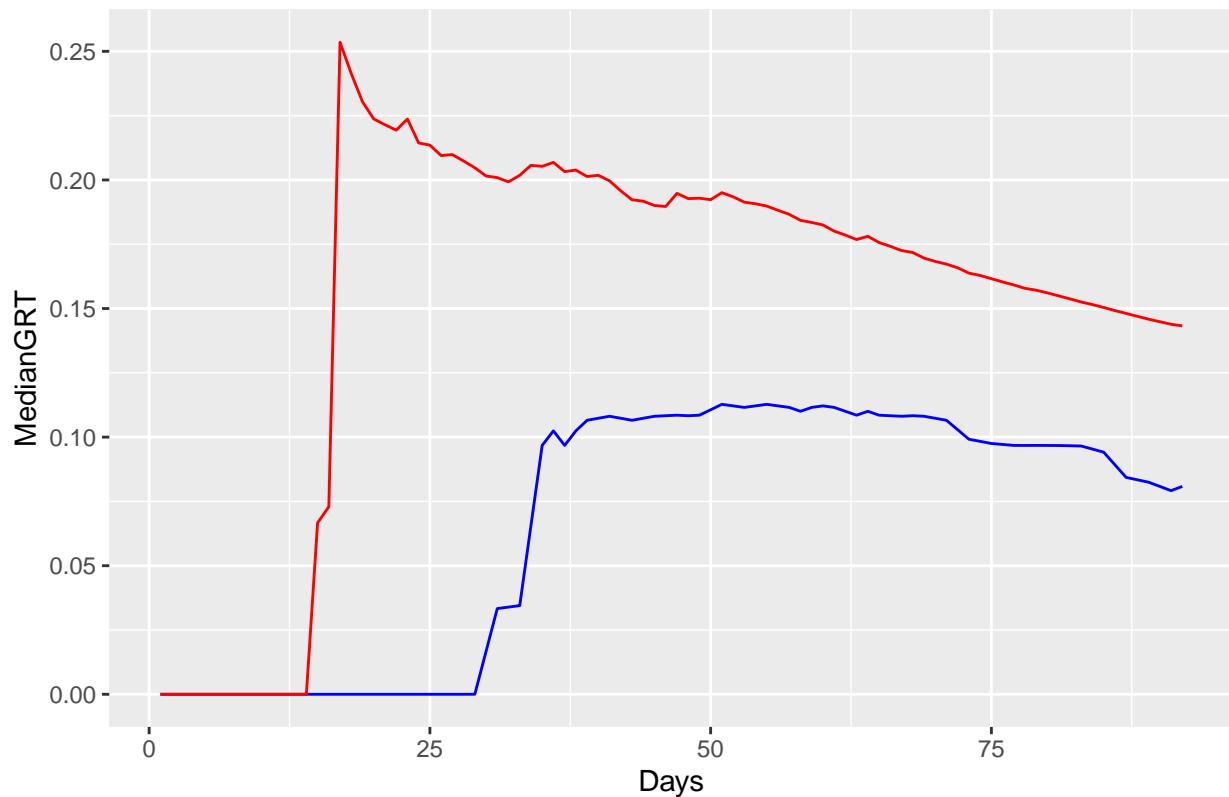
India:newCases(Orange)



### India: TotalDeaths/TotalCases



### India Median(BLUE)VsMean(RED) Growth Rate



#### Results:

- Tomorrows predicted case number is between  $1.1288098 \times 10^5$  and  $1.1882345 \times 10^5$  cases.
- Current doubling rate is **8 days**
- Mean doubling rate, i.e number of cases doubles every **5 days**.
- Median doubling rate, i.e number of cases doubles every **9 days**.
- Latest Observed Growth Rate **8.6072854** percent.
- Mean Growth Rate: **14.3247732** percent.
- Median Growth Rate: **8.0827025** percent.
- Standard deviation: +/- **34.1196465**.