

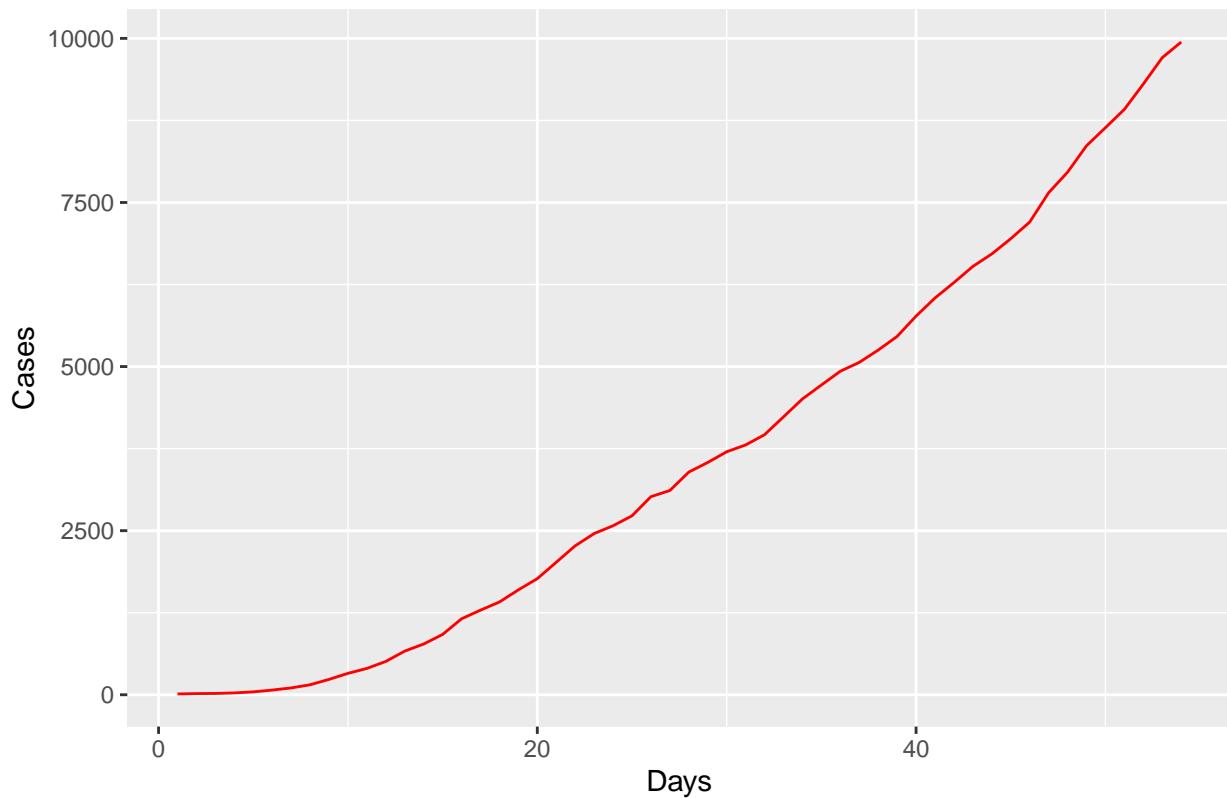
# Arizona/US/India Corona Trends- 7th May 2020 with tomorrow's prediction

Whitchurch Muthumani

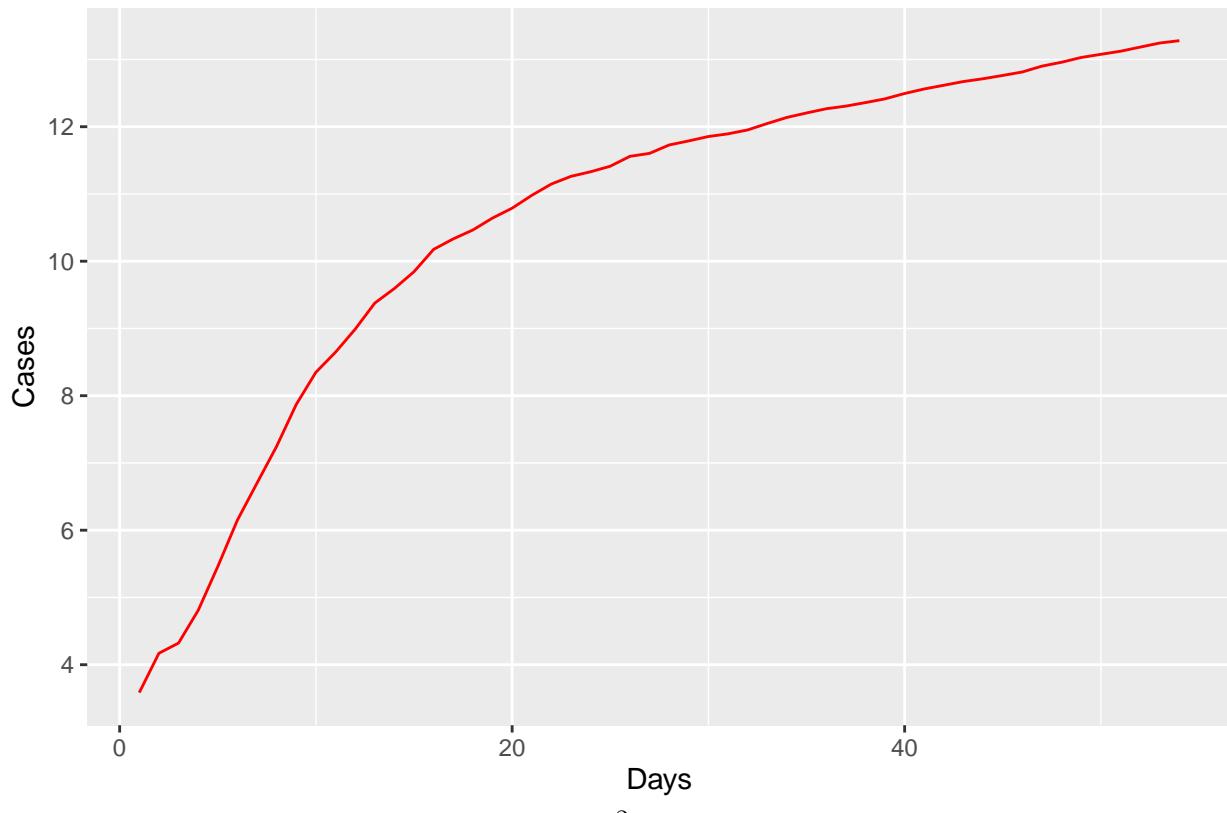
5/7/2020

## Arizona Corona Dashboard

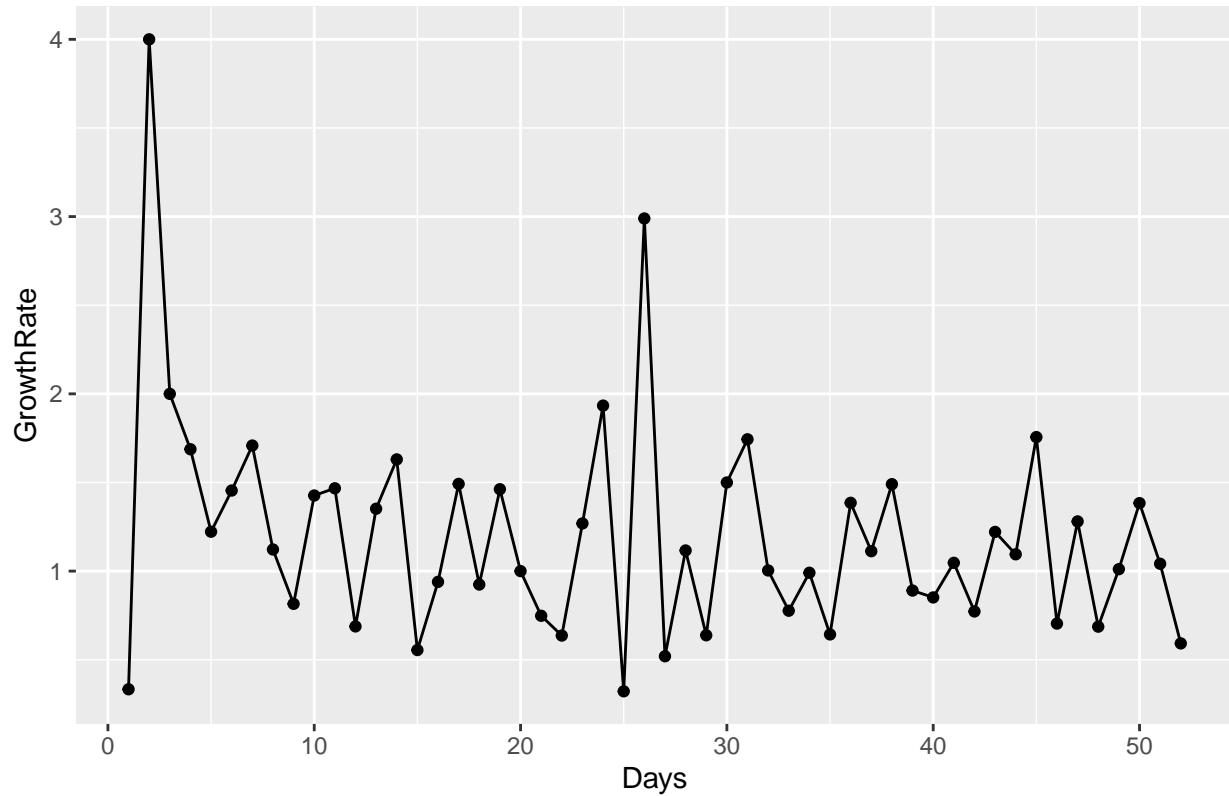
Arizona: Daily Cases



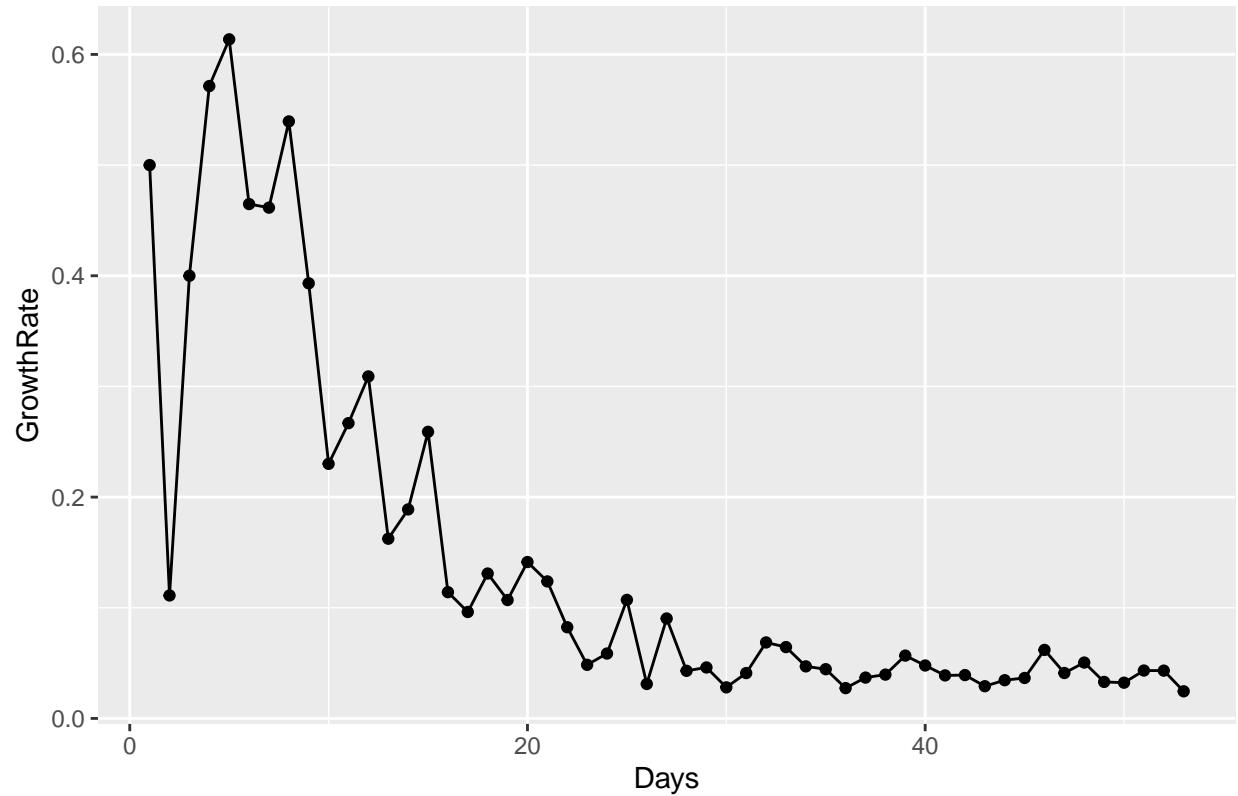
Arizona: Daily Cases



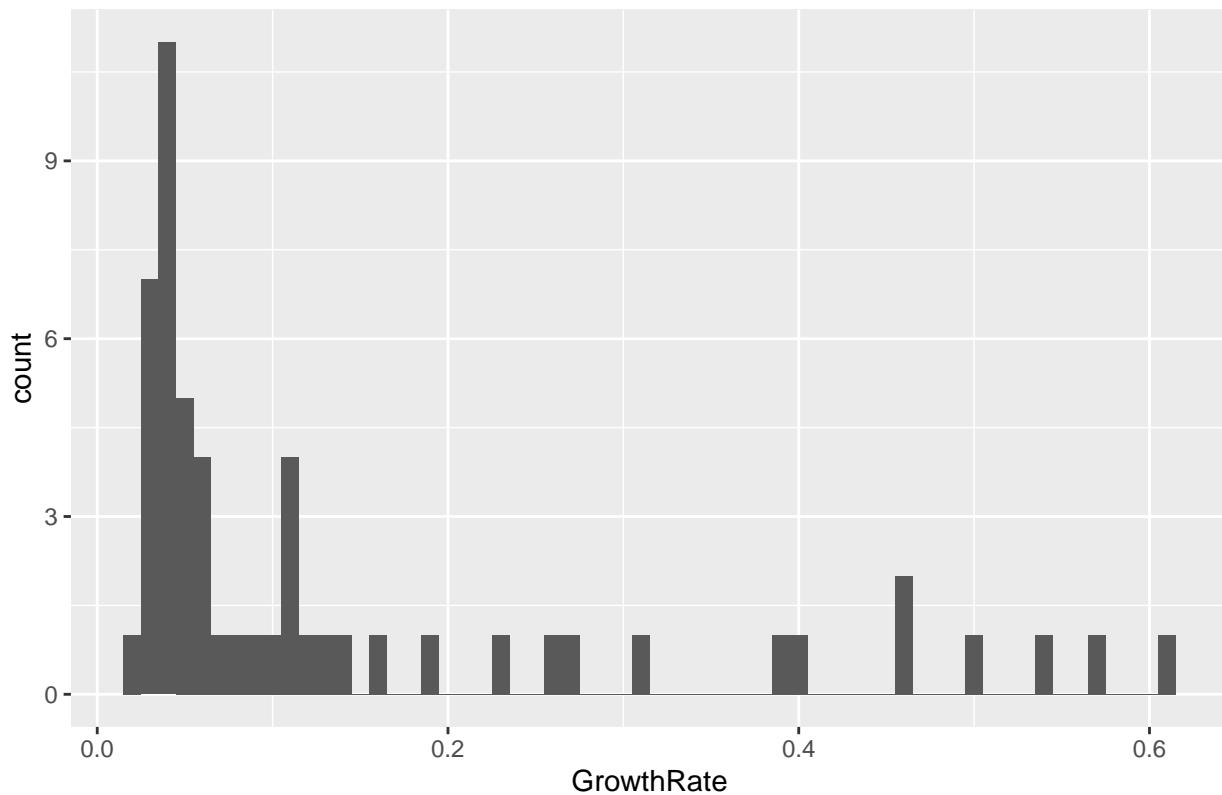
### Arizona: Rate of change in Growth Rate



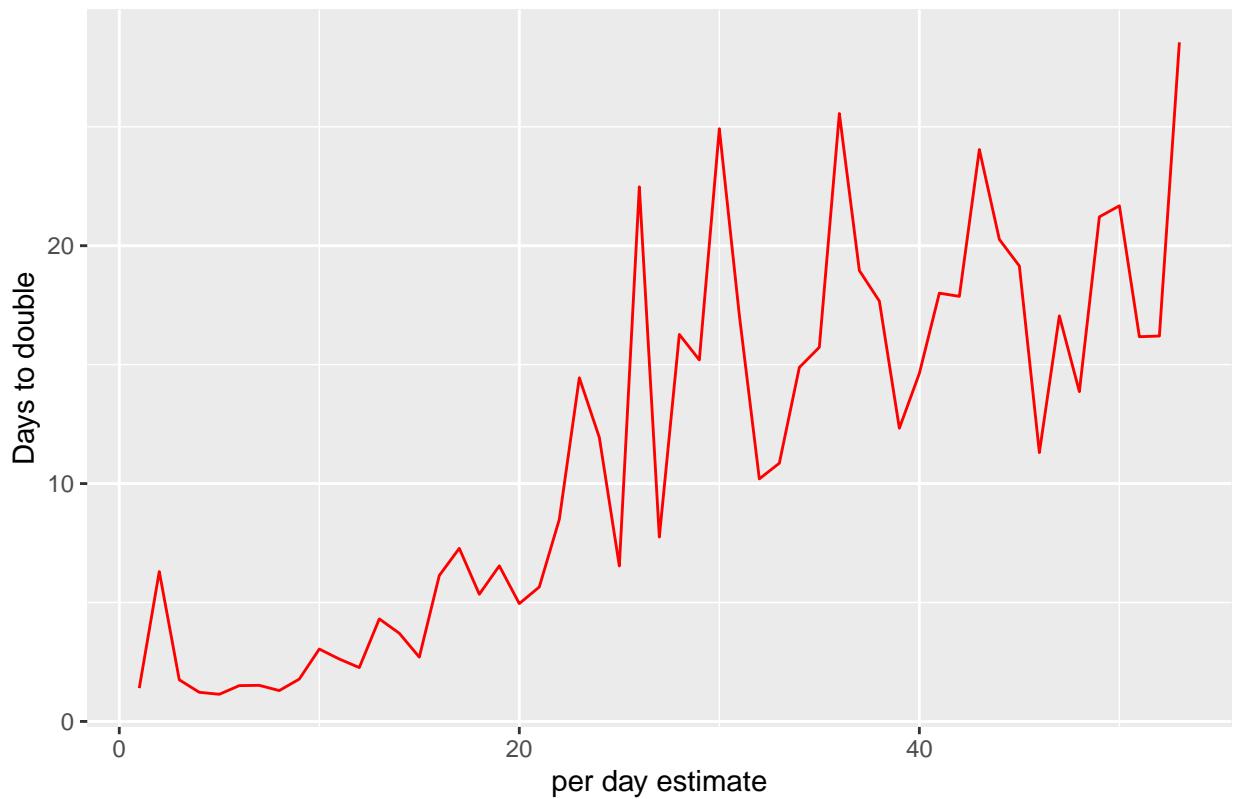
## Arizona: Growth Rate



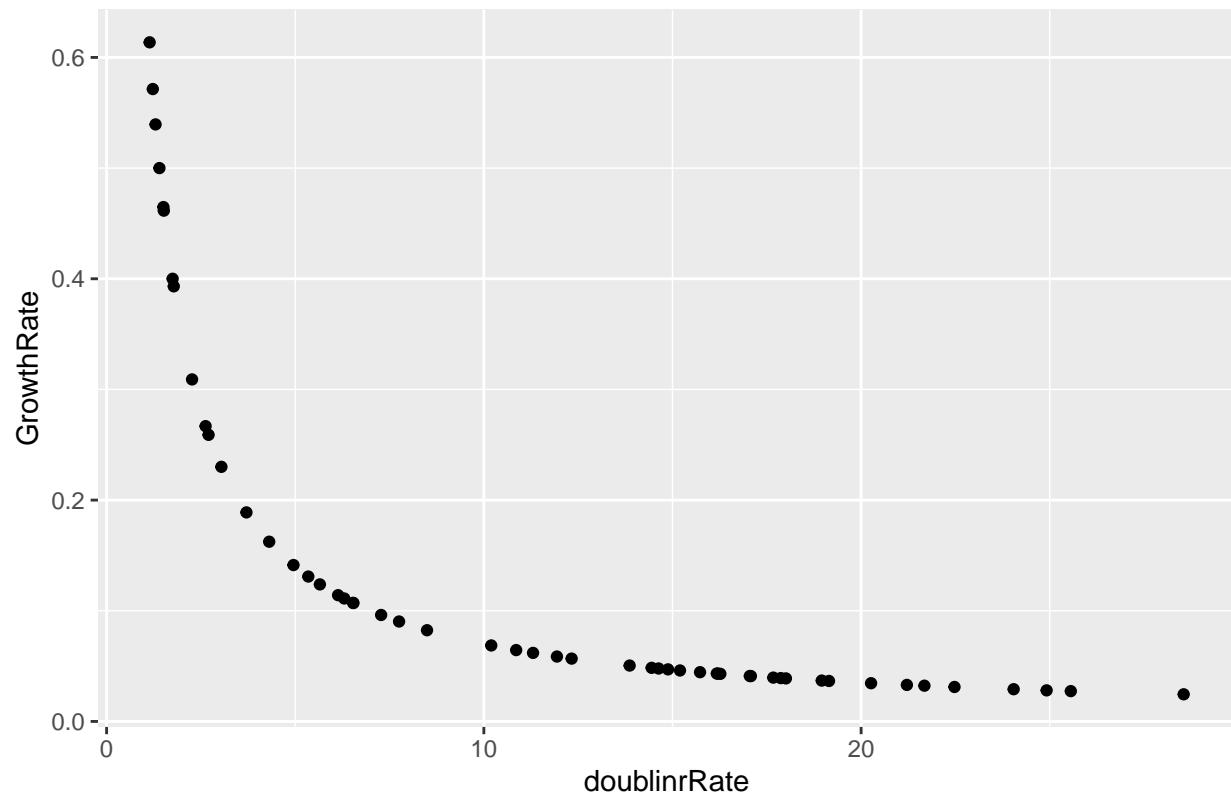
Histogram of GrowthRate



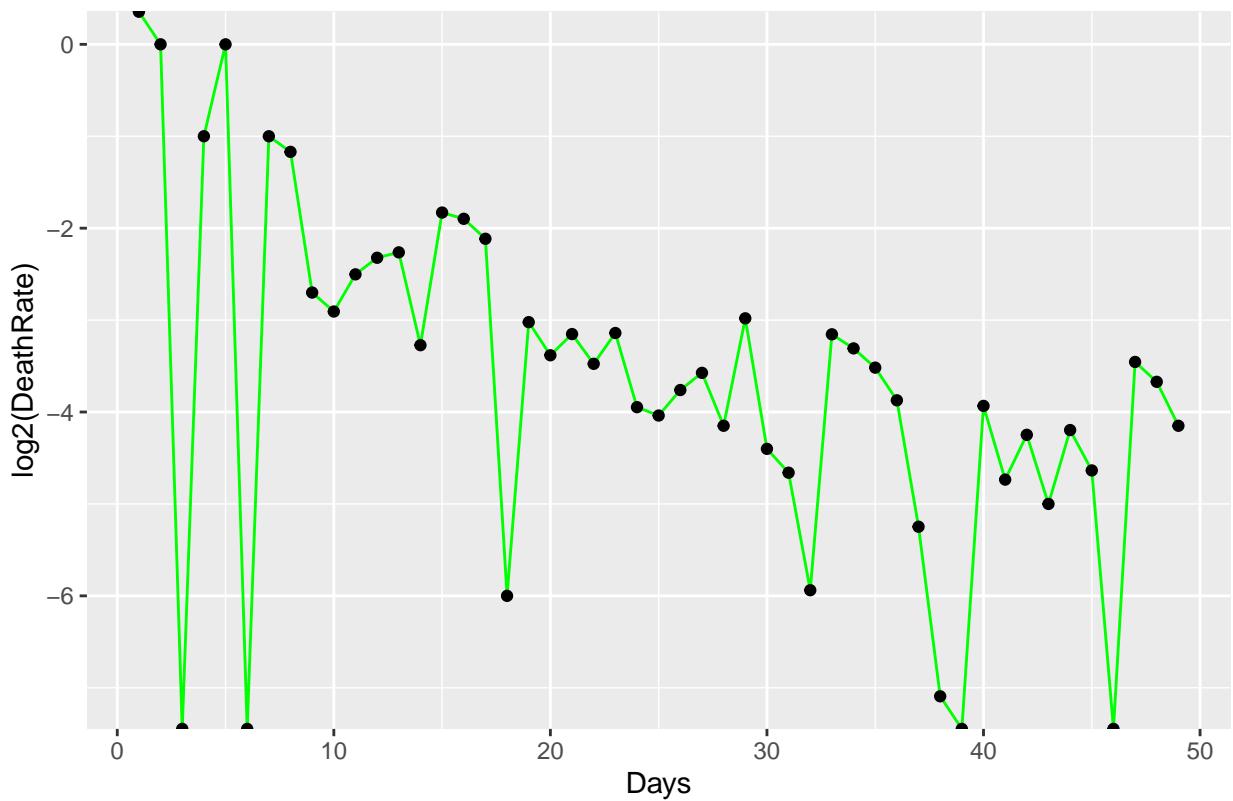
## Doubling Rate in days



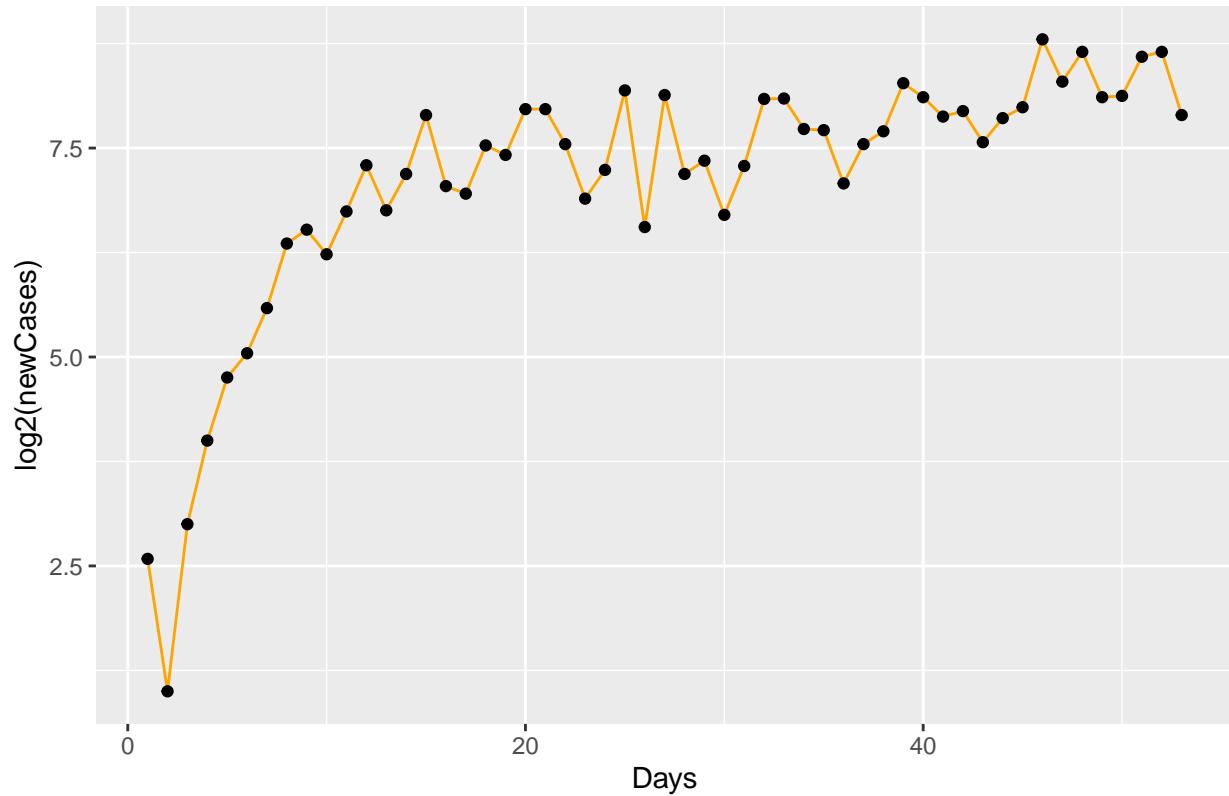
Doubling Rate vs Growth Rate



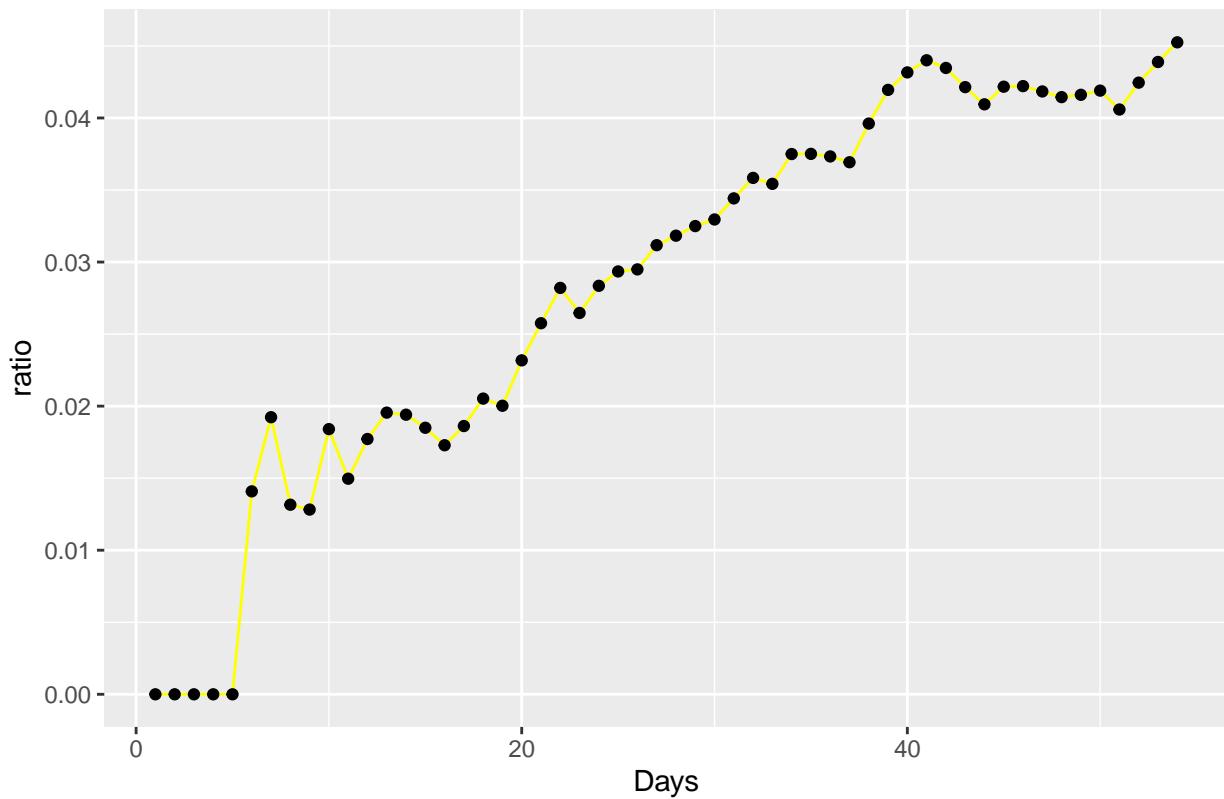
### Arizona: Daily Death Rate



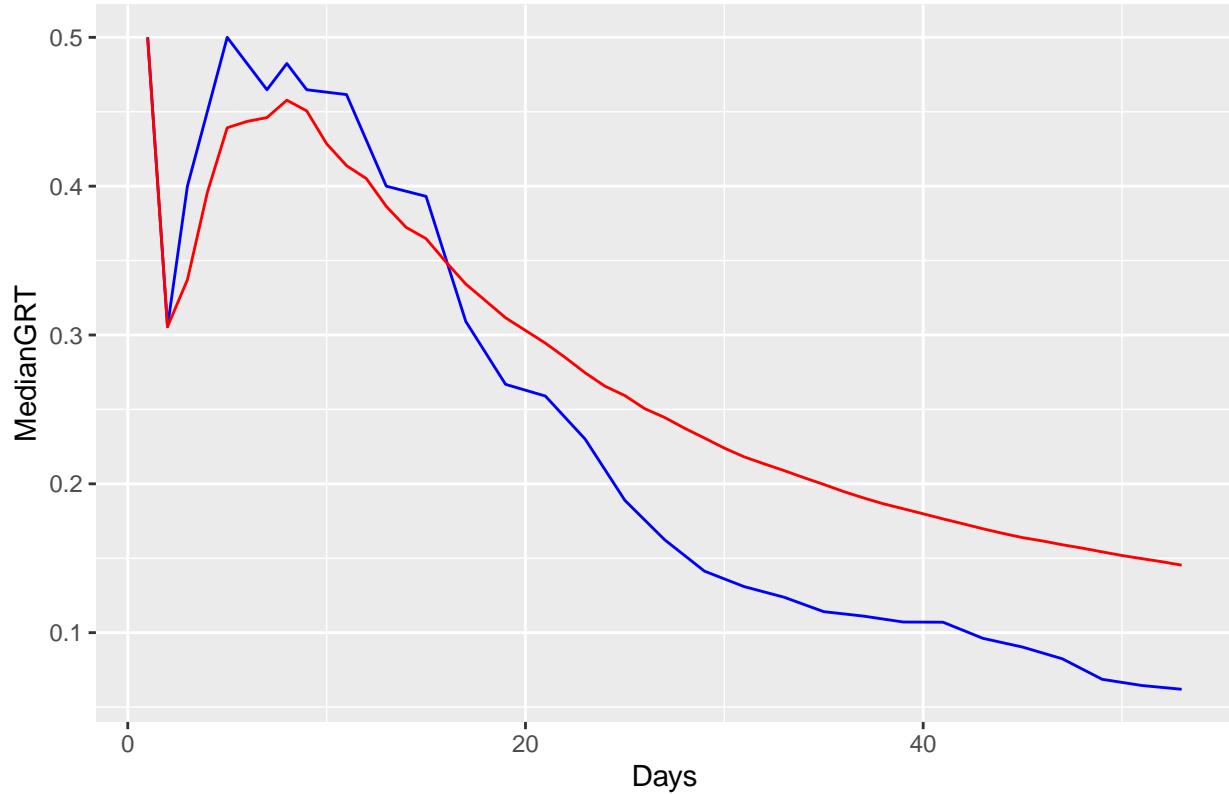
Arizona:newCases(Orange)



### Arizona: TotalDeaths/TotalCases



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

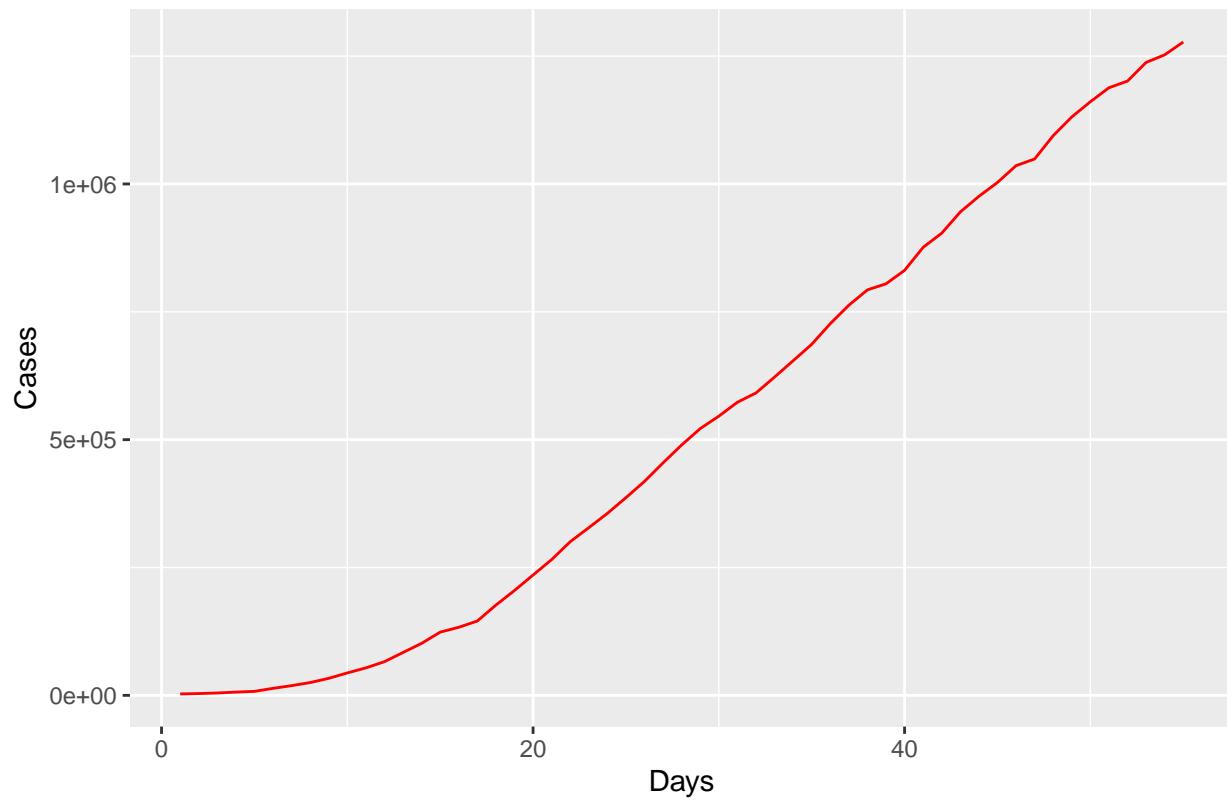


### Results:

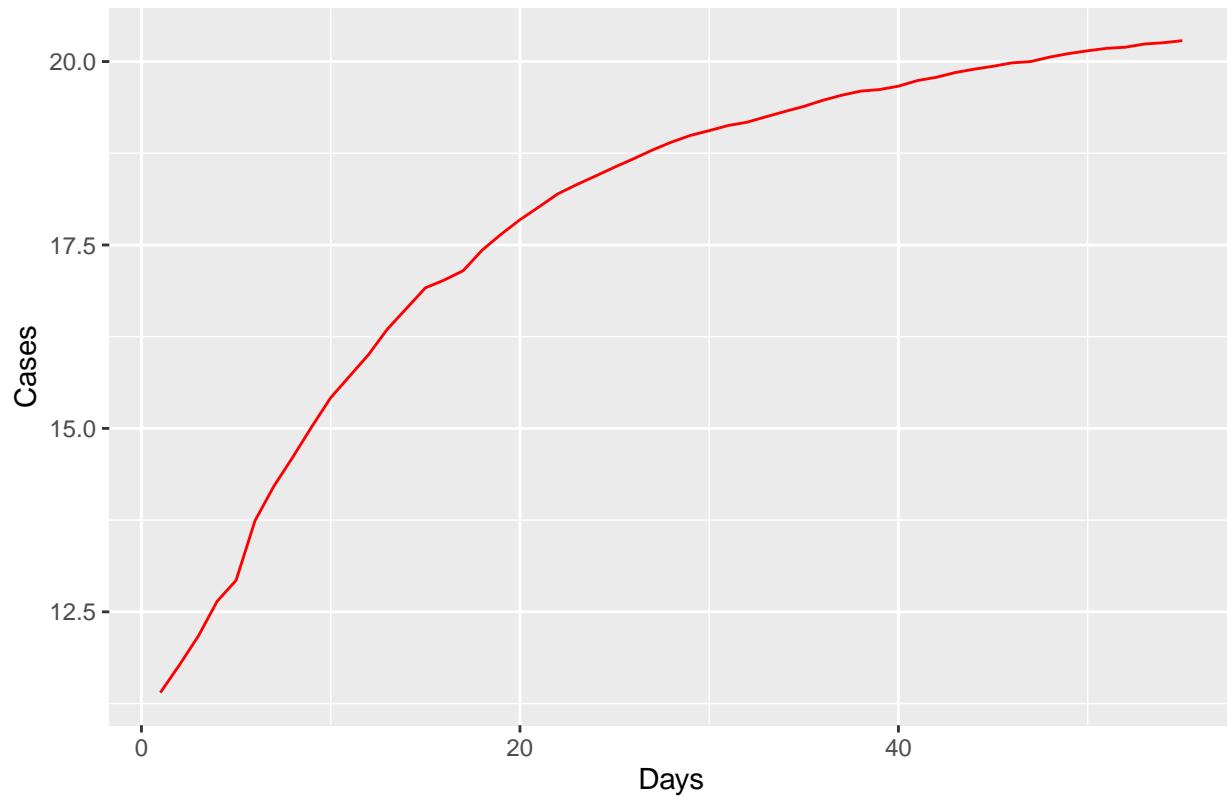
- Tomorrows predicted case number is between  $1.0188835 \times 10^4$  and  $1.1390253 \times 10^4$  cases.
- Current doubling rate is **29 days**
- Mean doubling rate, i.e number of cases doubles every **5 days**.
- Median doubling rate, i.e number of cases doubles every **11 days**.
- Latest Observed Growth Rate **2.4518389** percent.
- Mean Growth Rate: **14.5324598** percent.
- Median Growth Rate: **6.1927242** percent.
- Standard deviation: +/- **16.3996567**.

## US Corona Dashboard

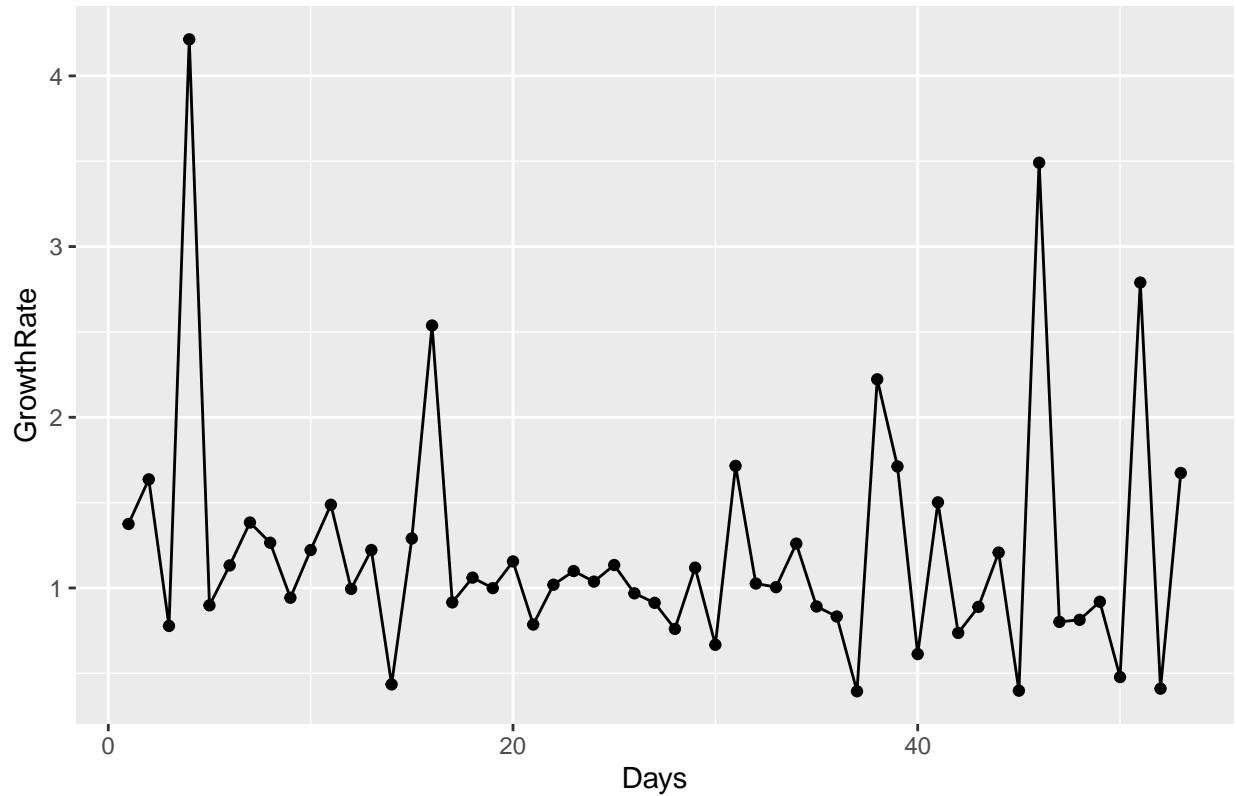
### US: Daily Cases



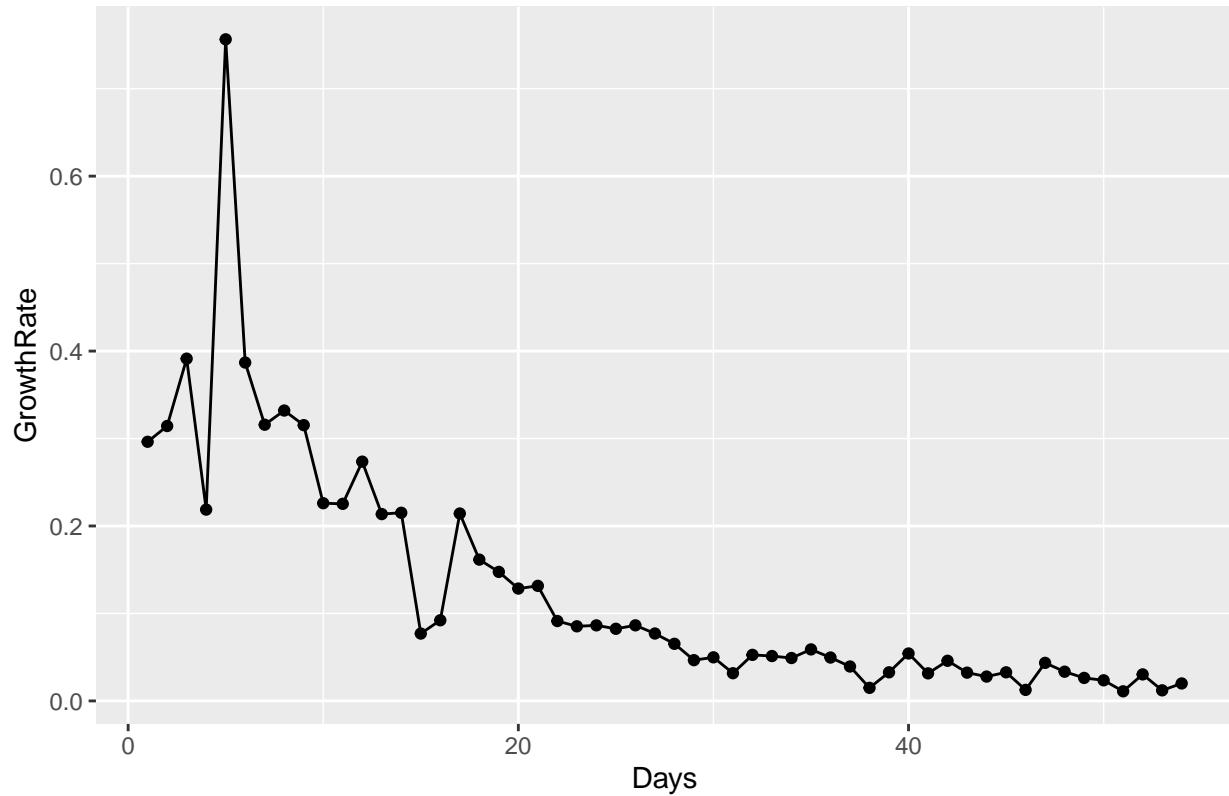
### US: Daily Cases



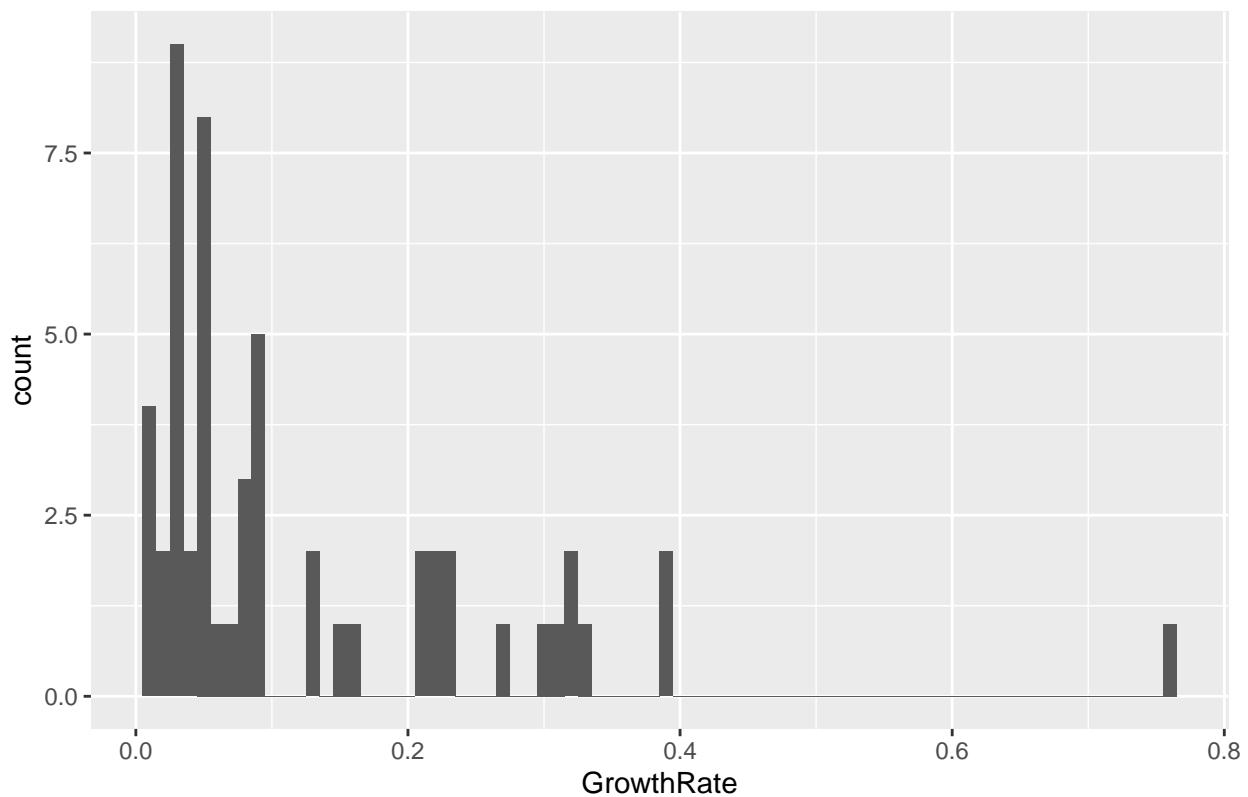
### US: Rate of change in Growth Rate



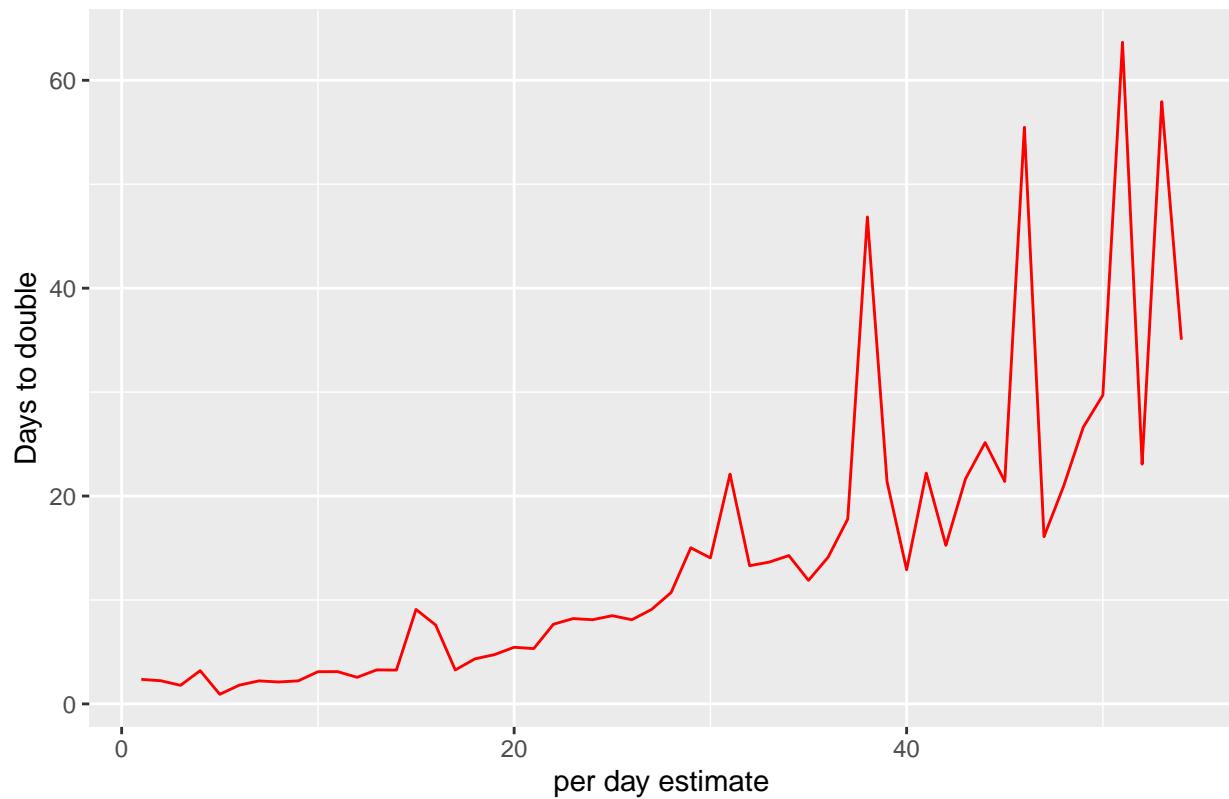
## US: Growth Rate



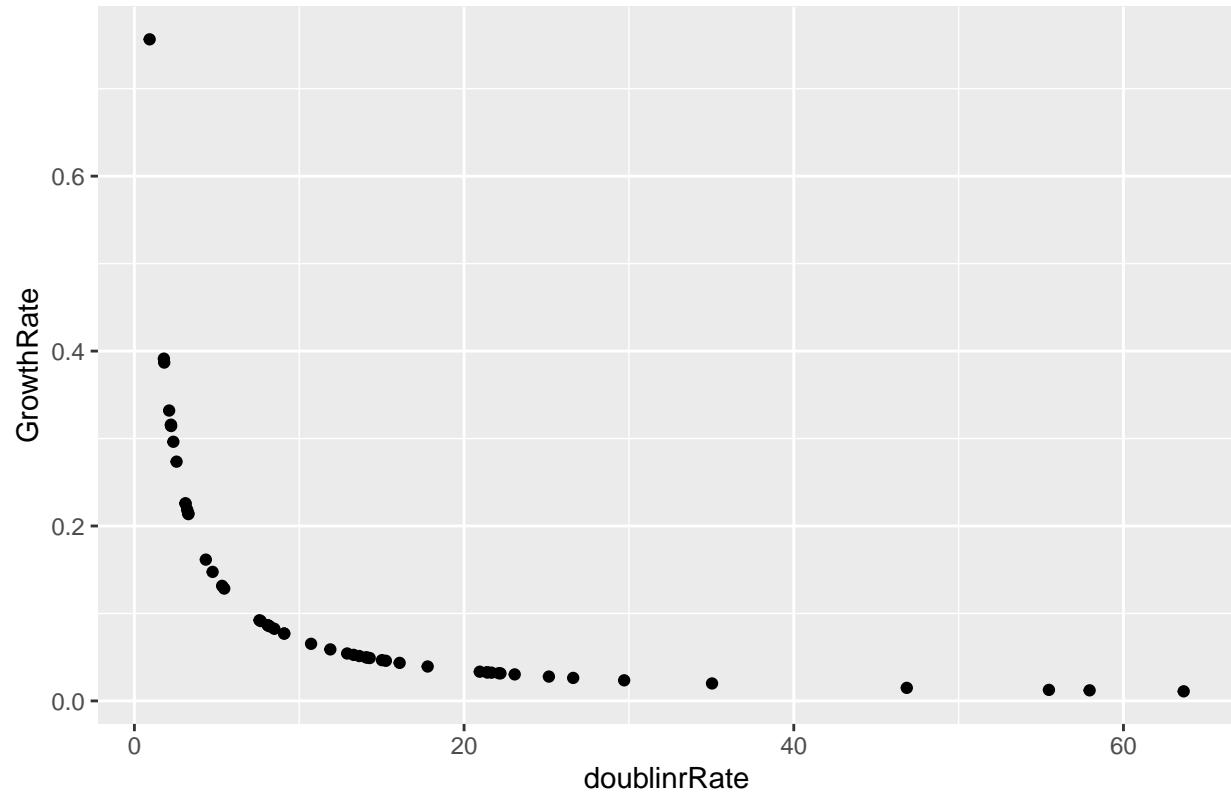
Histogram of GrowthRate



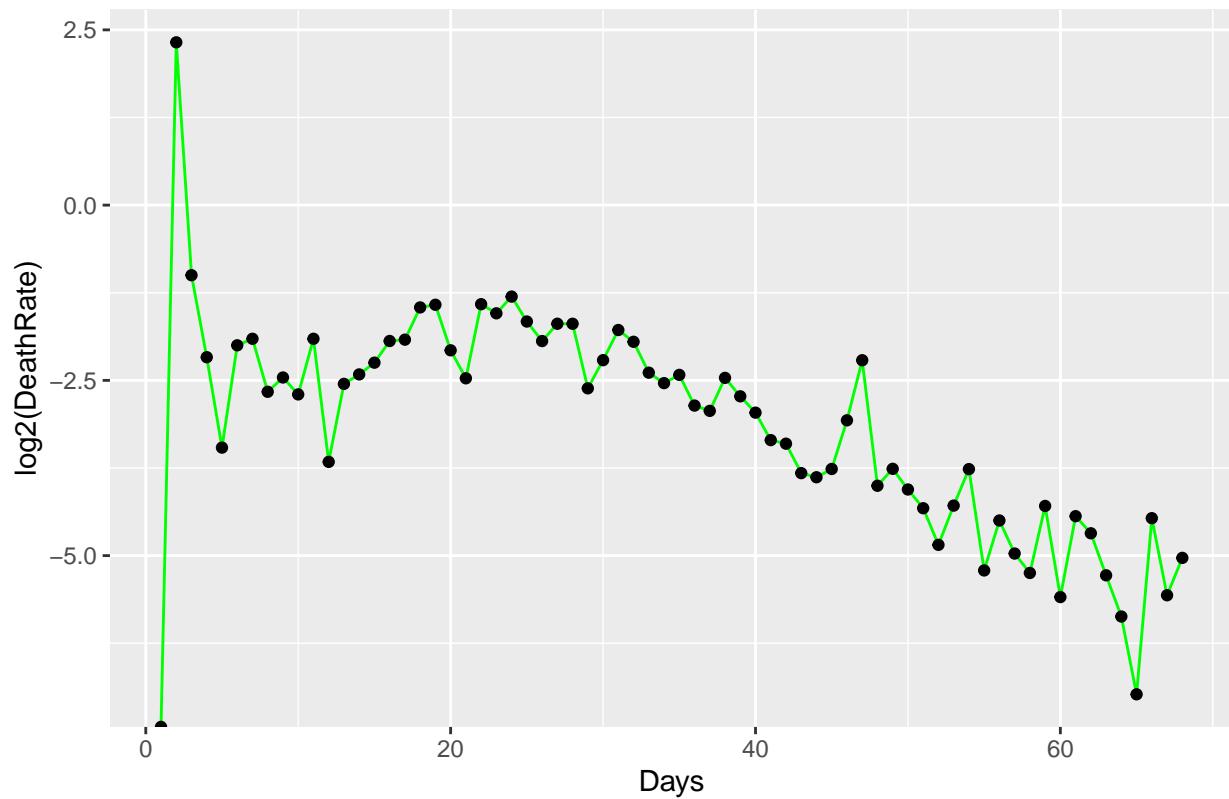
## Doubling Rate in days



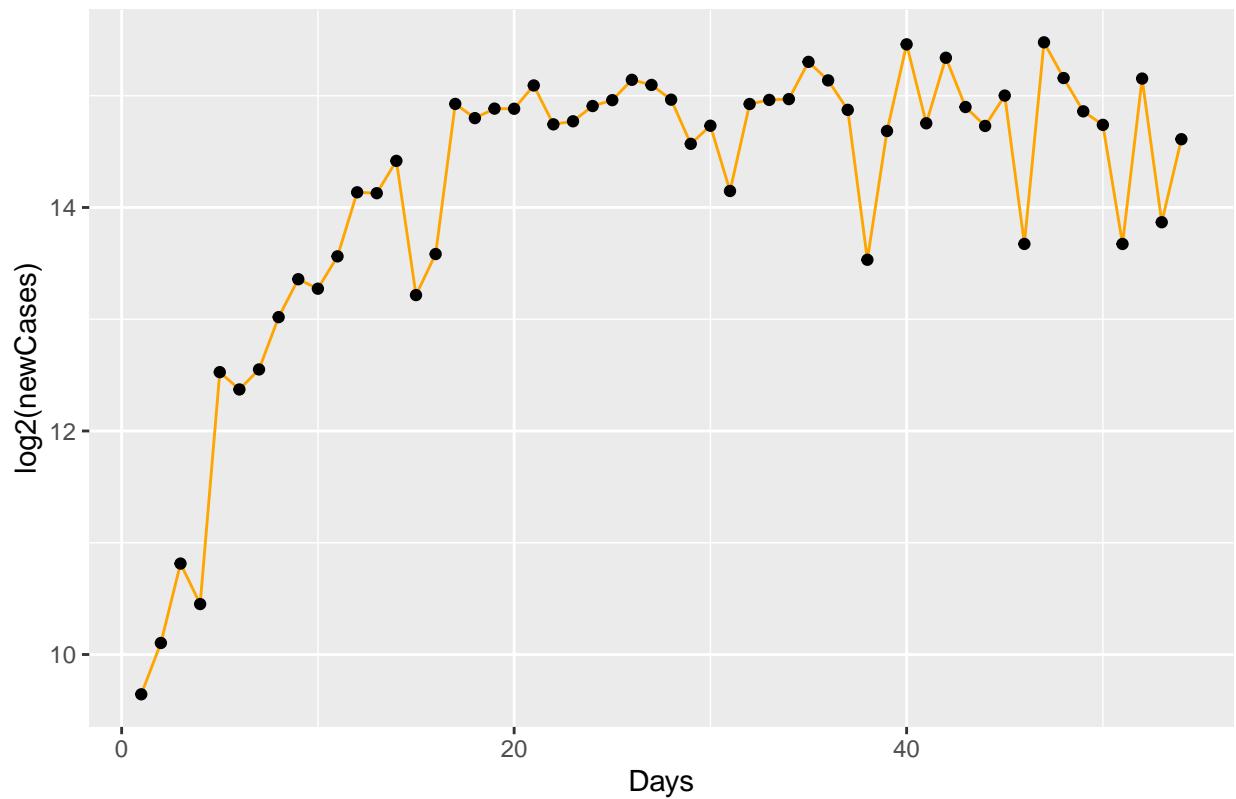
## Doubling Rate vs Growth Rate



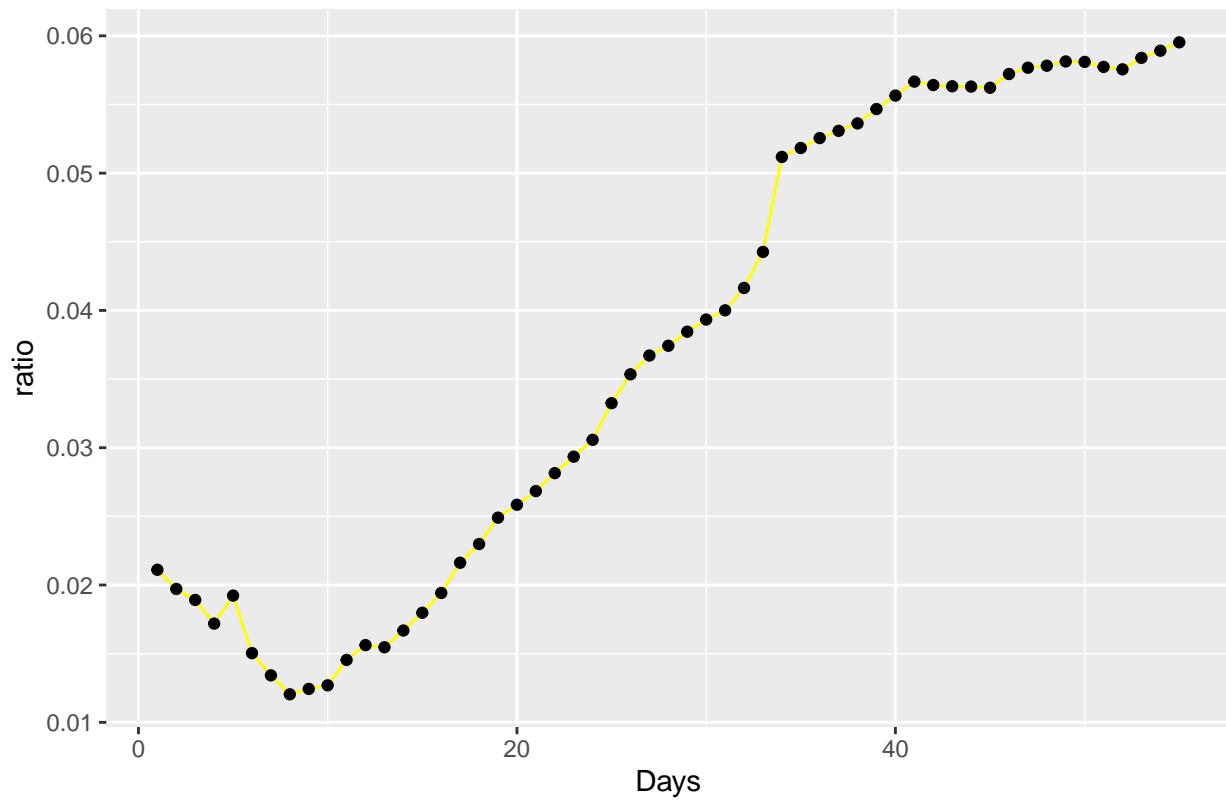
### US: Daily Death Rate



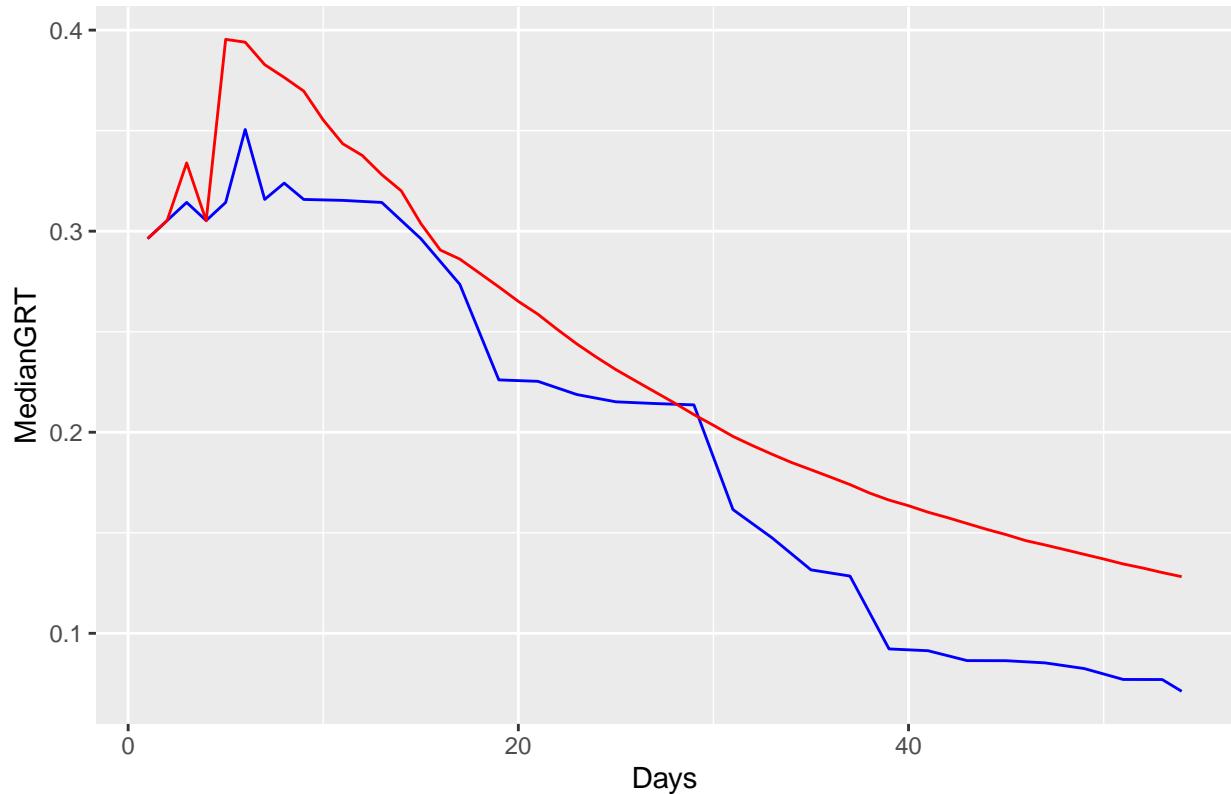
US:newCases(Orange)



### US: TotalDeaths/TotalCases



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

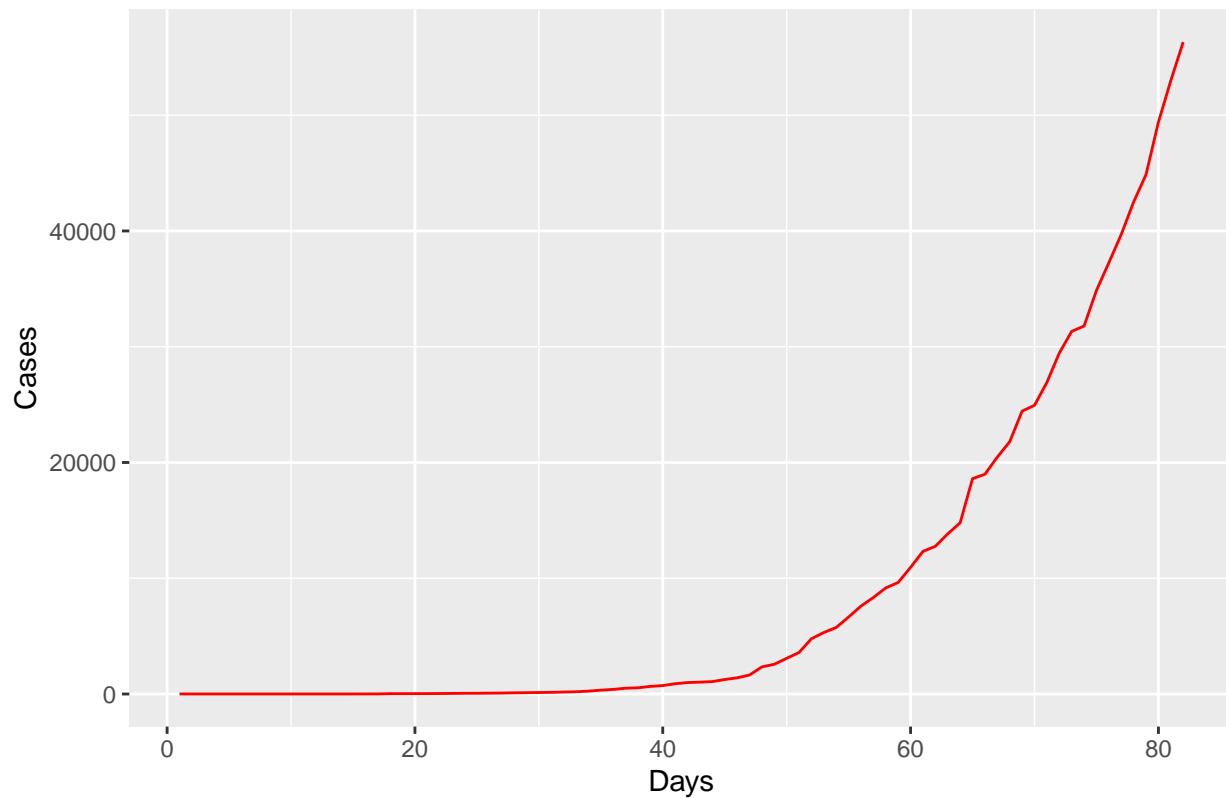


### Results:

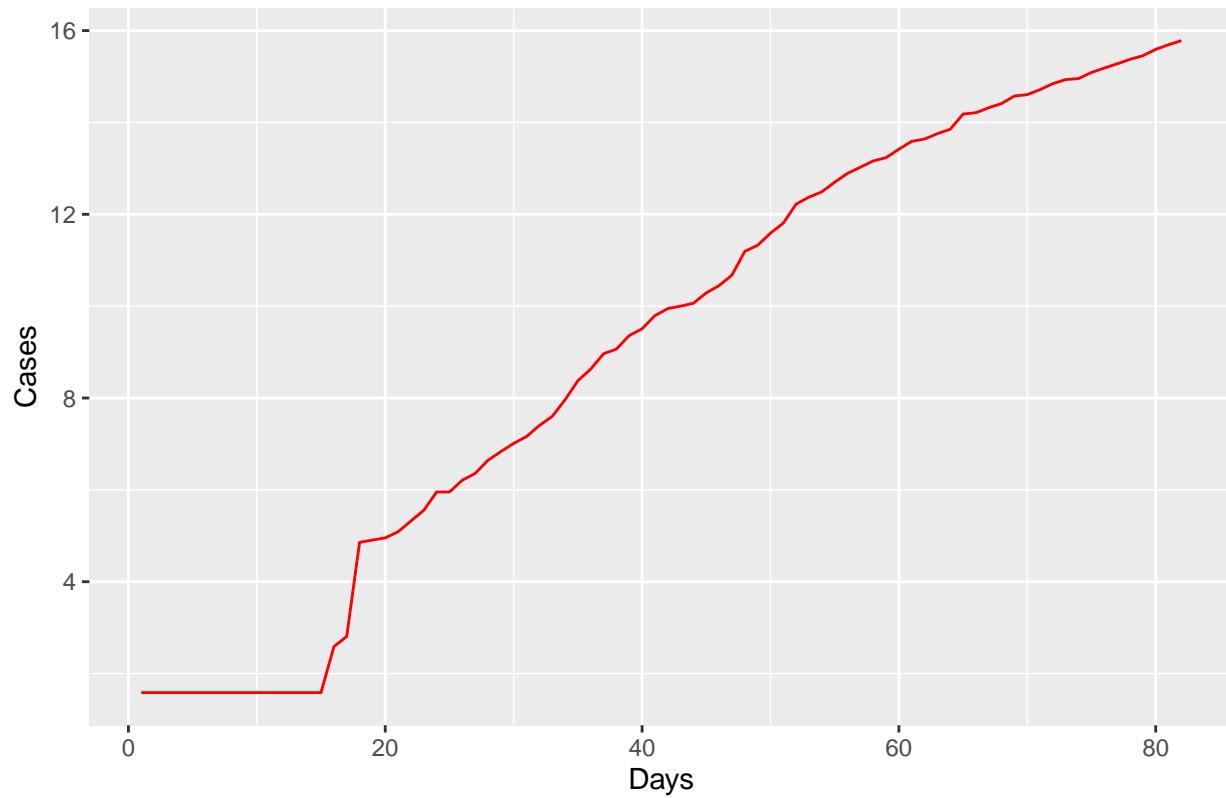
- Tomorrows predicted case number is between  $1.3031278 \times 10^6$  and  $1.4413605 \times 10^6$  cases.
- Current doubling rate is **35 days**
- Mean doubling rate, i.e number of cases doubles every **5 days**.
- Median doubling rate, i.e number of cases doubles every **10 days**.
- Latest Observed Growth Rate **1.9976305** percent.
- Mean Growth Rate: **12.8172901** percent.
- Median Growth Rate: **7.1155181** percent.
- Standard deviation: +/- **13.919768**.

## India Corona Dashboard

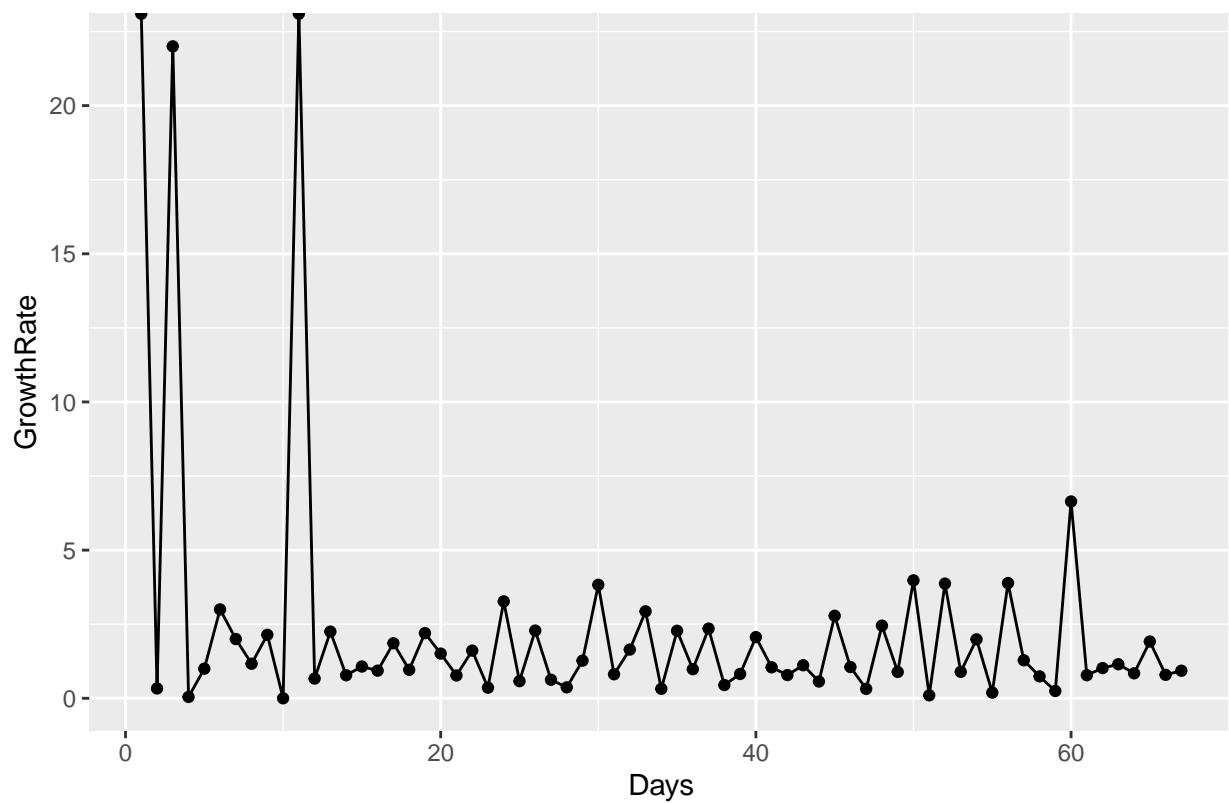
### India: Daily Cases



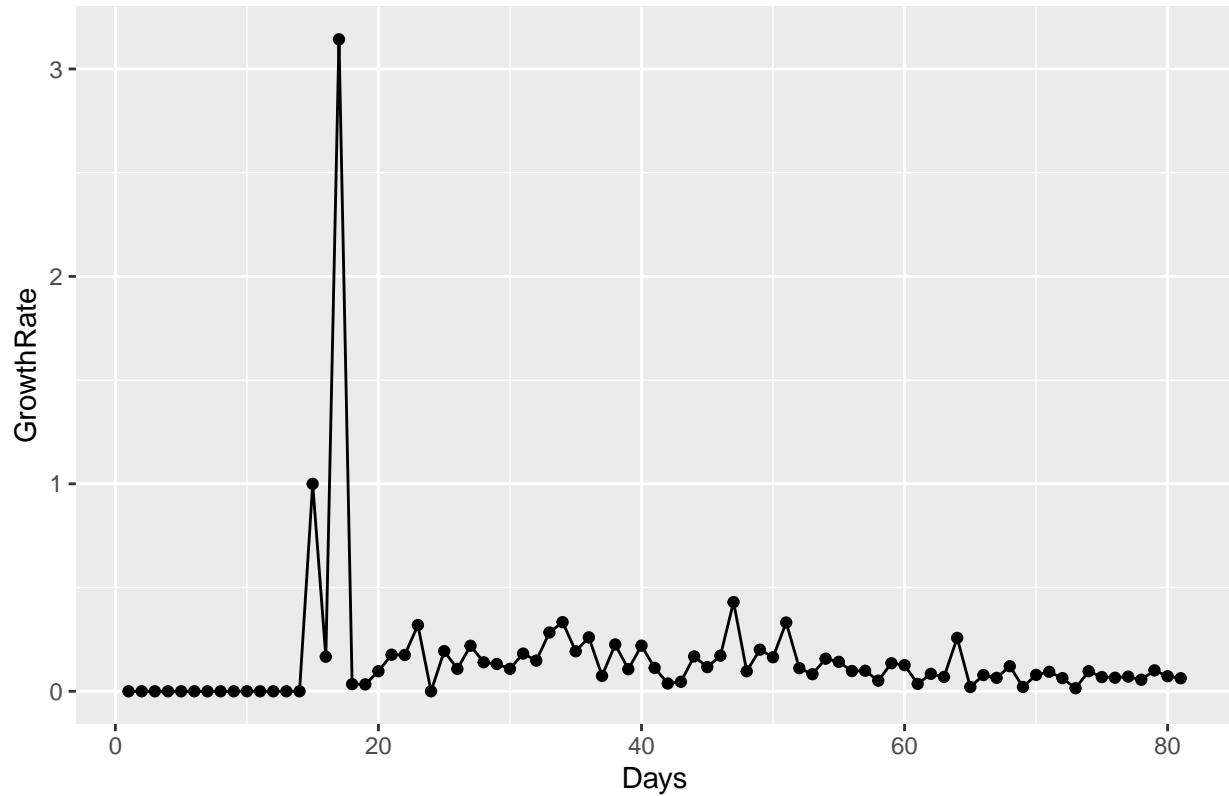
### India: Daily Cases



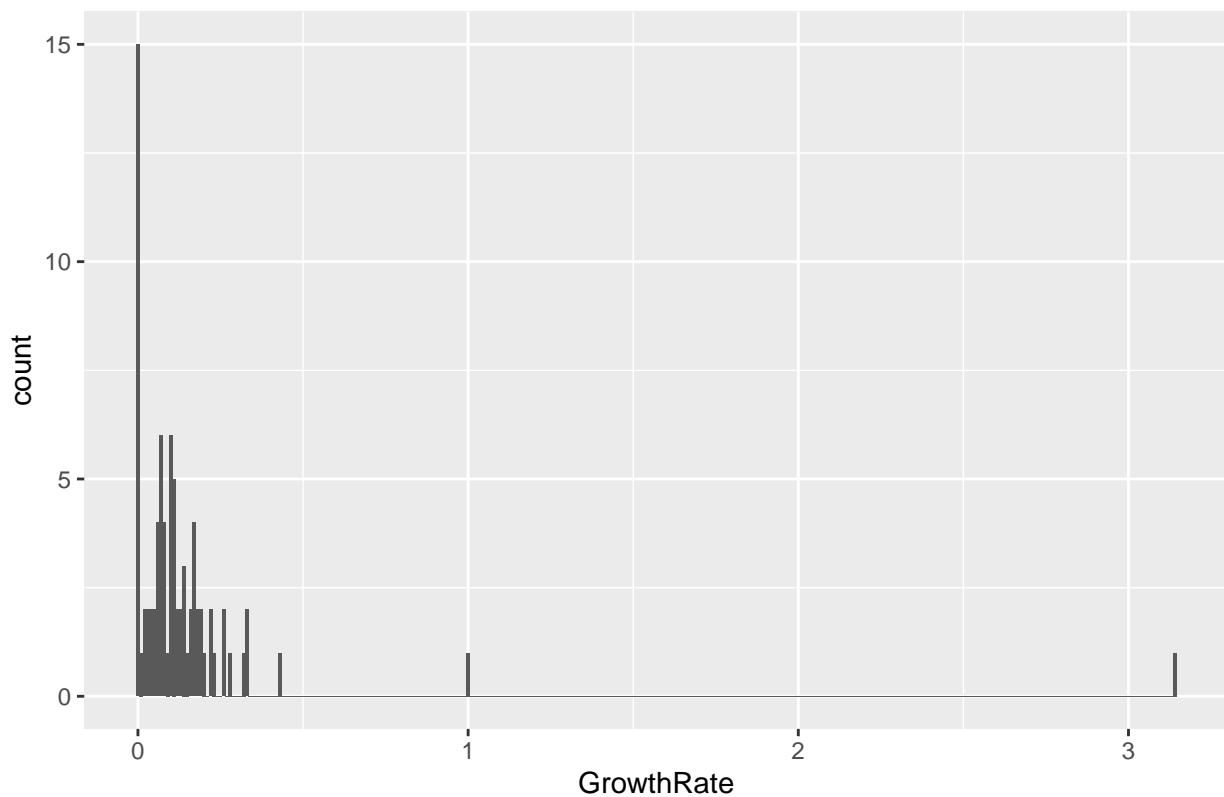
### US: Rate of change in Growth Rate



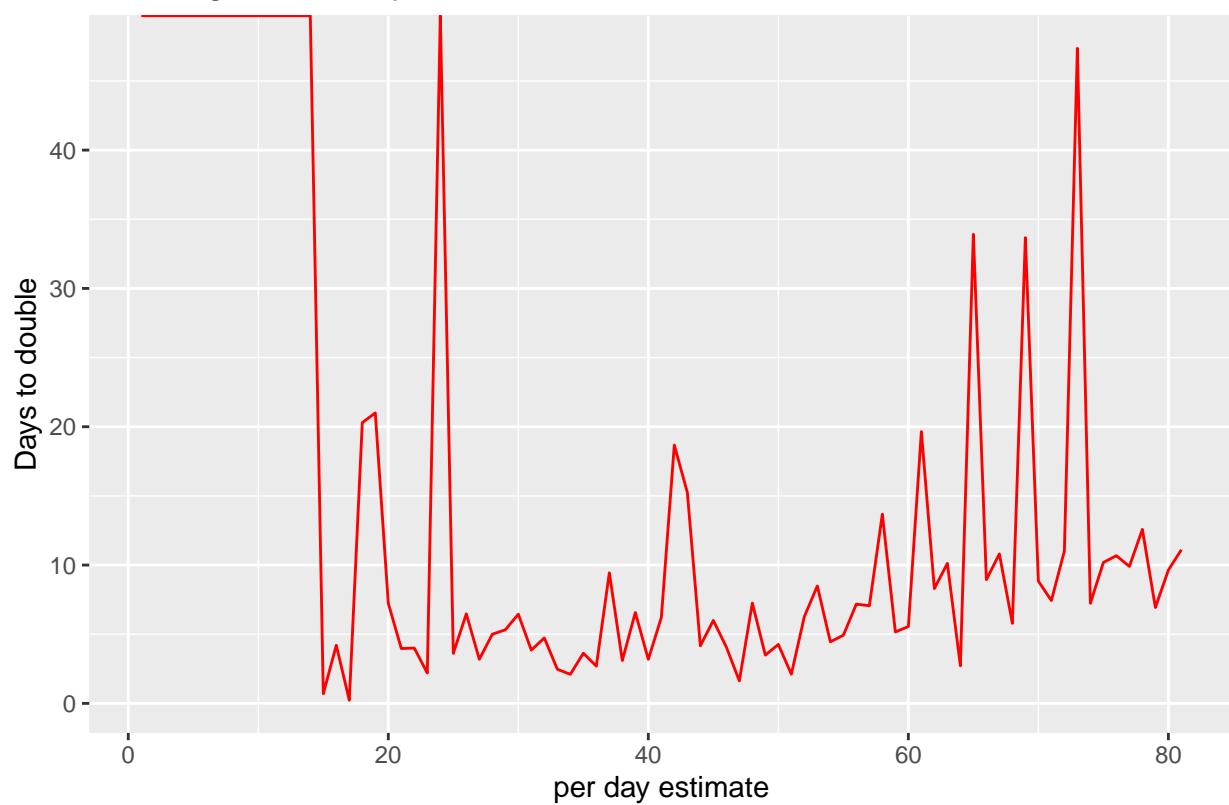
## India: Growth Rate



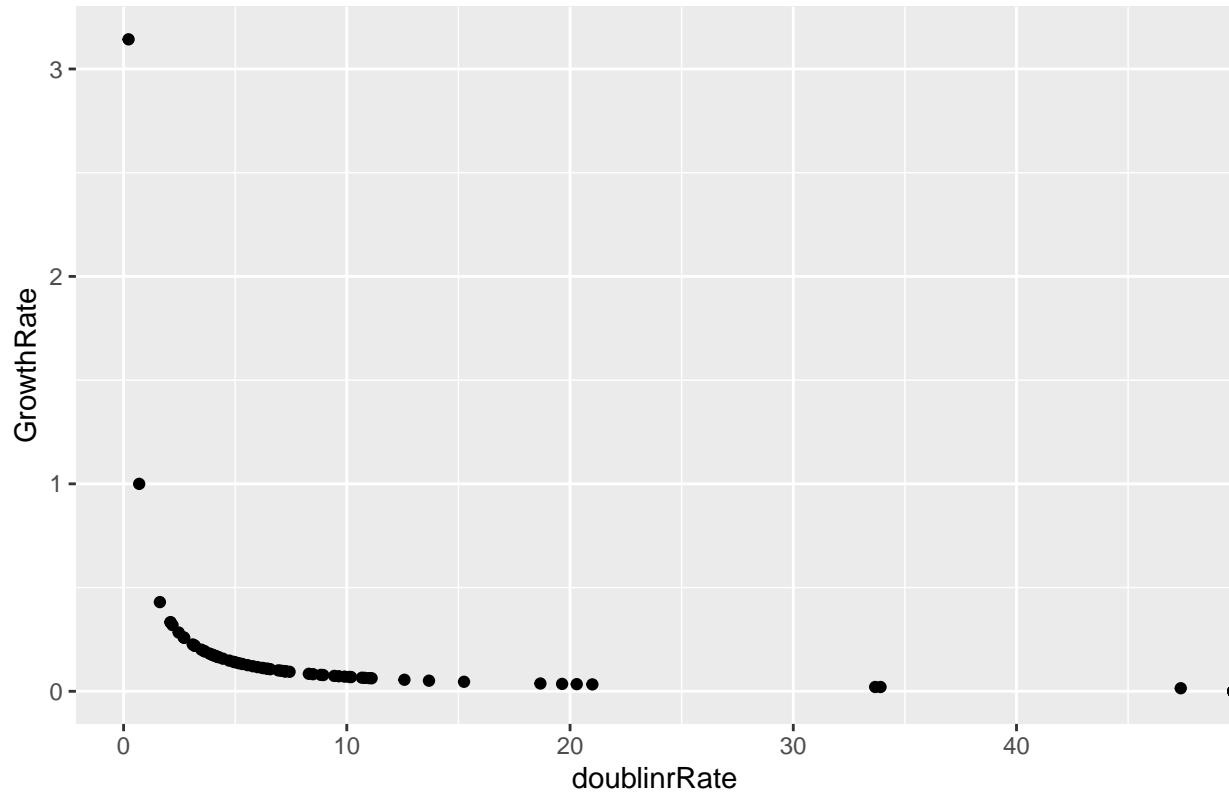
Histogram of GrowthRate



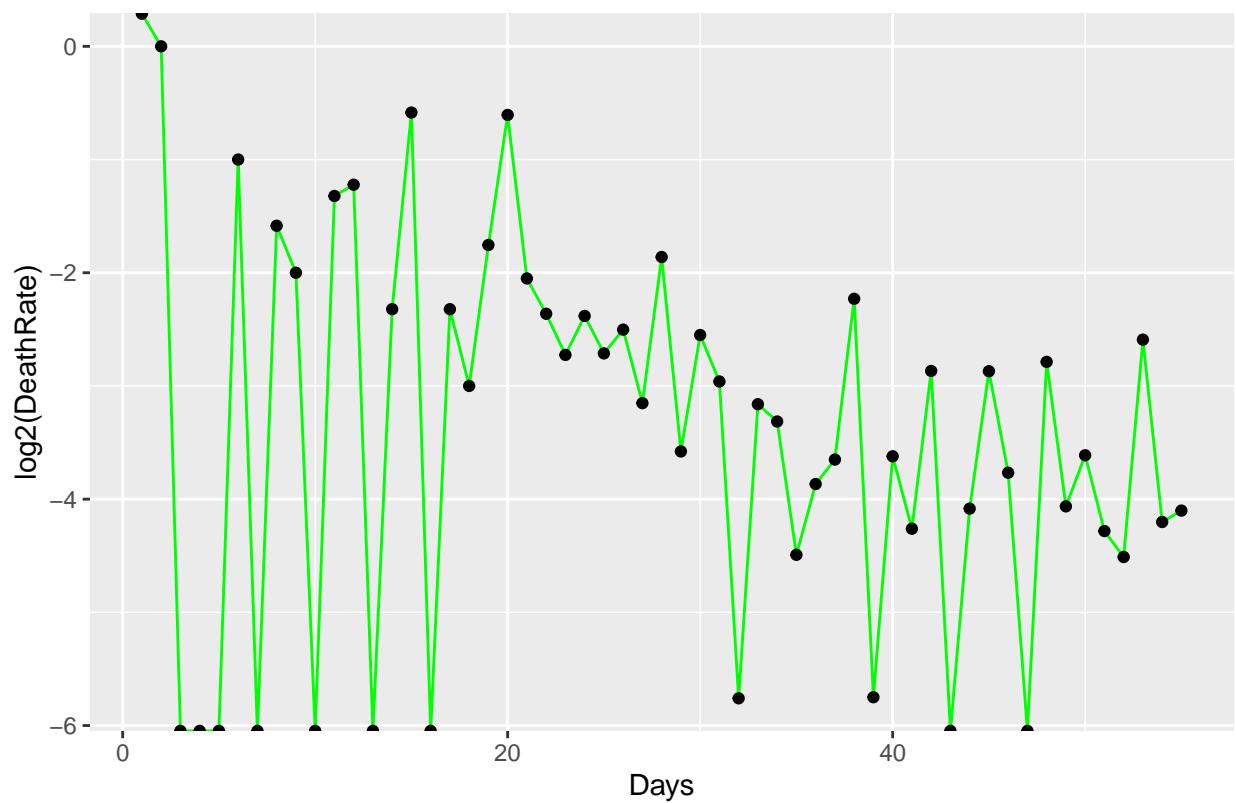
### Doubling Rate in days



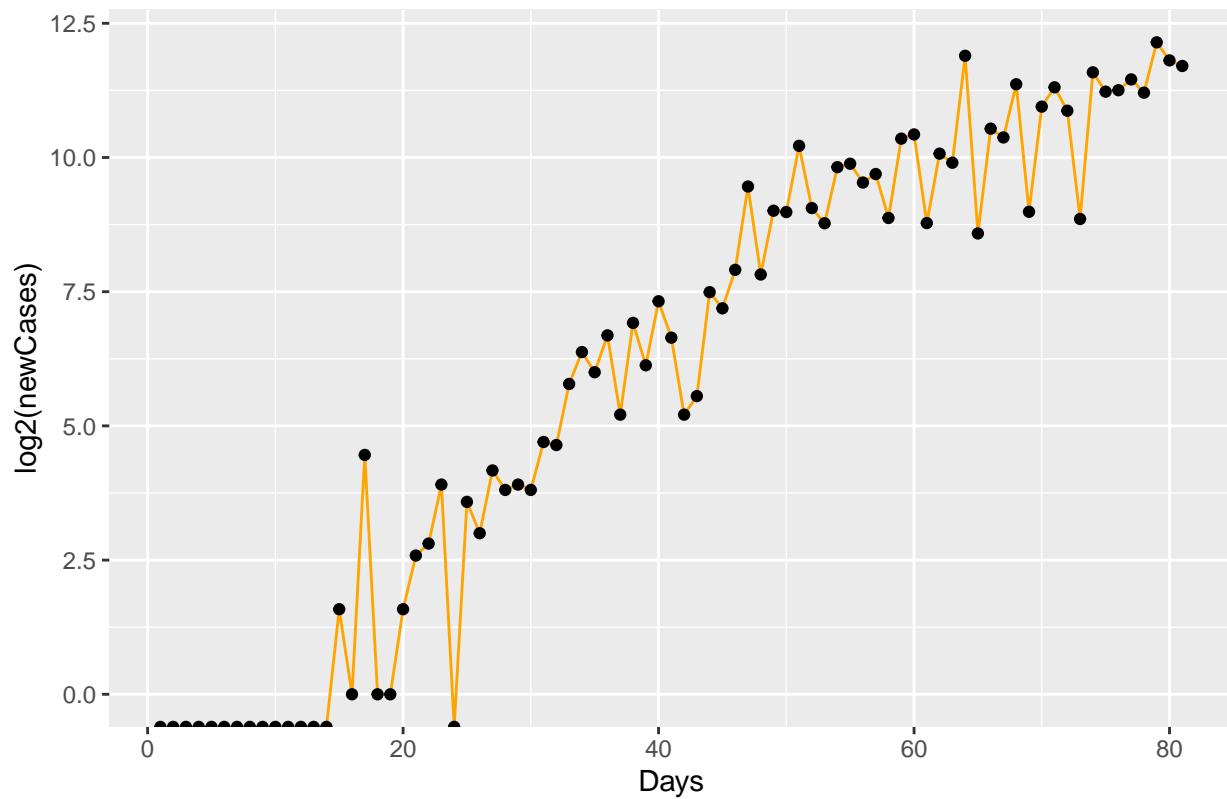
## Doubling Rate vs Growth Rate



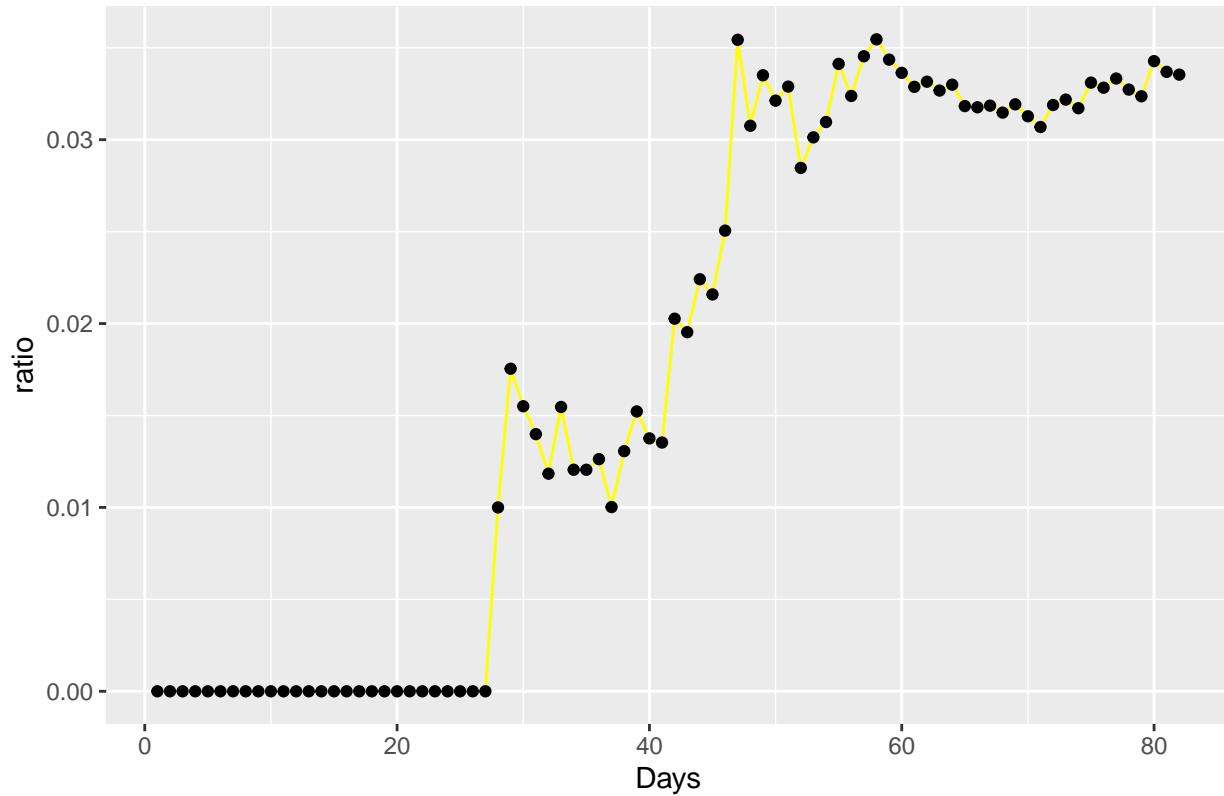
### India: Daily Death Rate



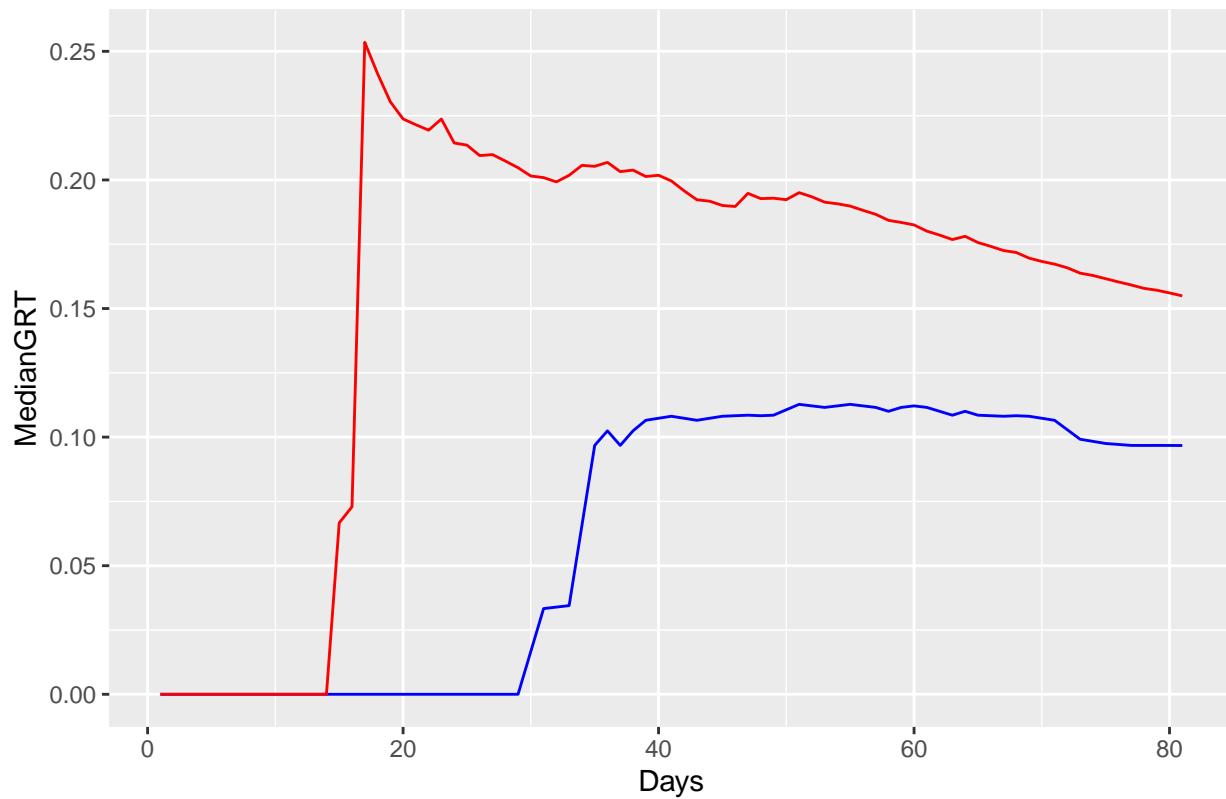
India:newCases(Orange)



### India: TotalDeaths/TotalCases



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



#### Results:

- Tomorrows predicted case number is between  $5.9873283 \times 10^4$  and  $6.5050634 \times 10^4$  cases.
- Current doubling rate is **11 days**
- Mean doubling rate, i.e number of cases doubles every **5 days**.
- Median doubling rate, i.e number of cases doubles every **7 days**.
- Latest Observed Growth Rate **6.2996584** percent.
- Mean Growth Rate: **15.4915824** percent.
- Median Growth Rate: **9.673766** percent.
- Standard deviation: +/- **36.2288726**.