

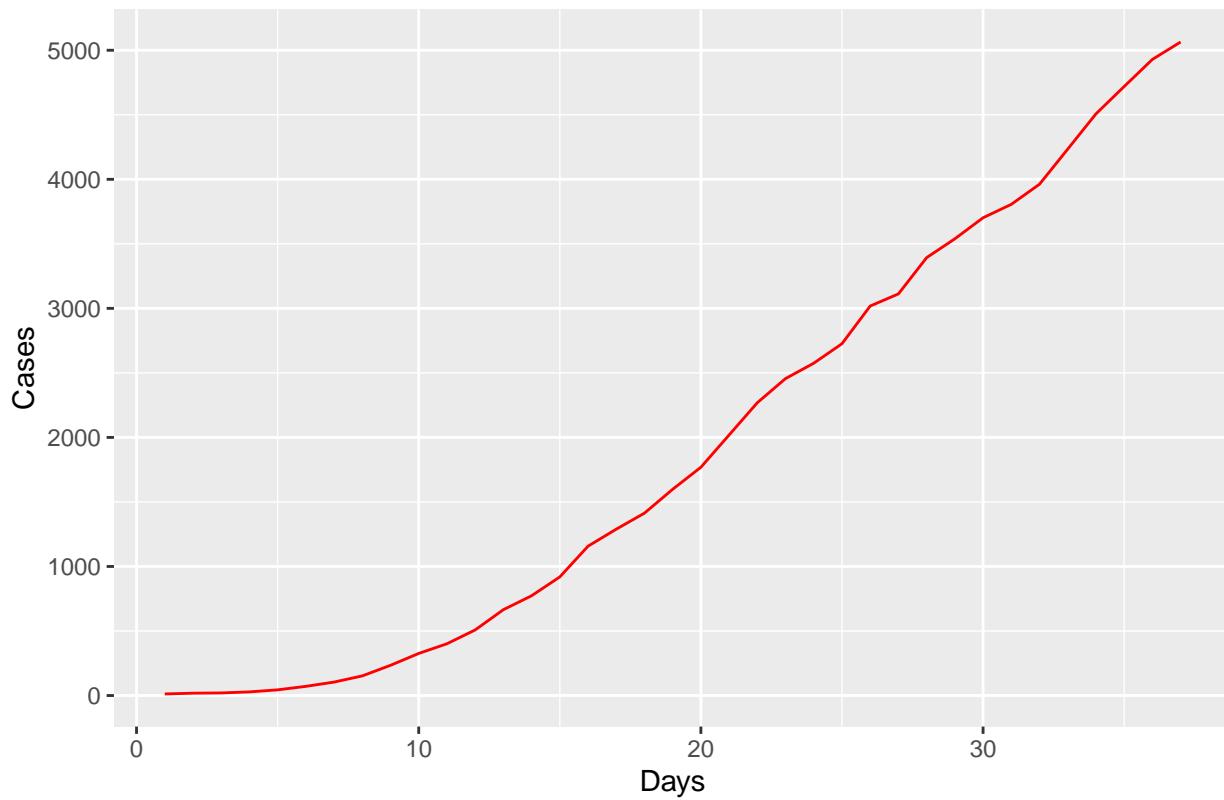
# Arizona/US/India Corona Trends- 20th April 2020 with tomorrow's prediction

Whitchurch Muthumani

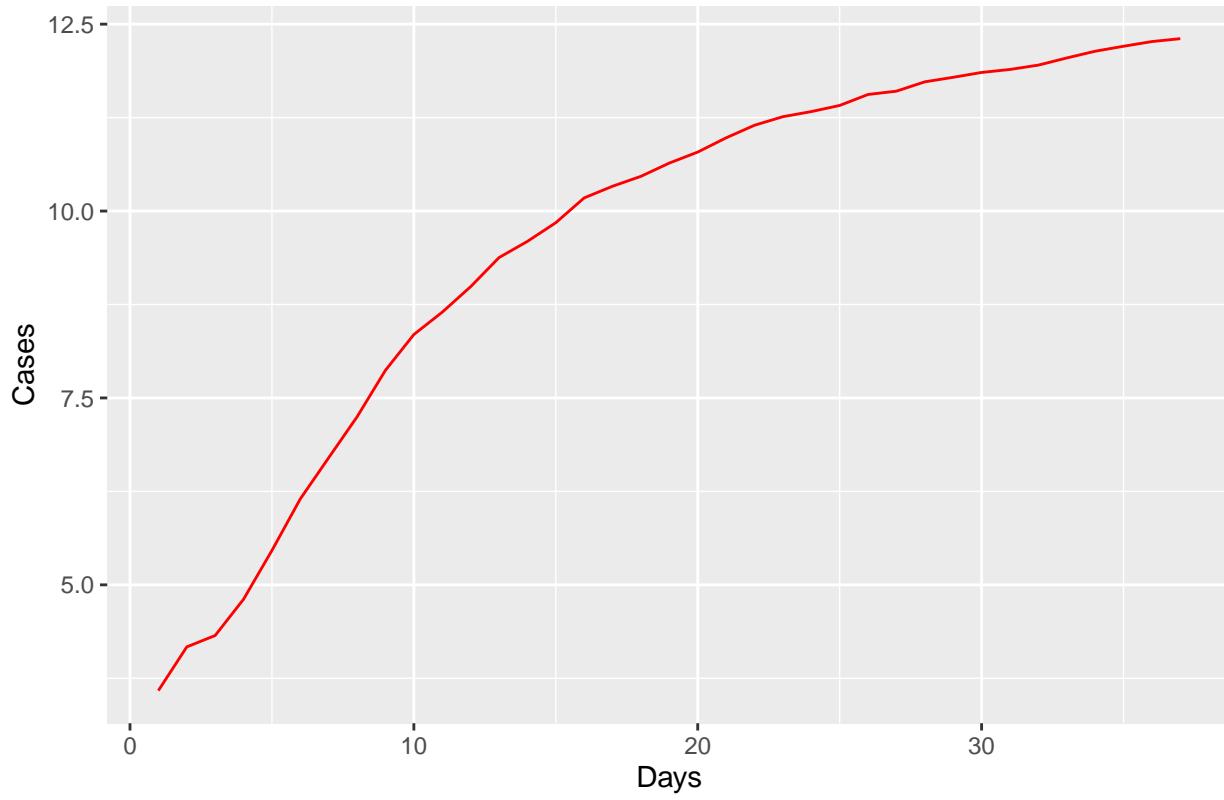
4/20/2020

## Arizona Corona Dashboard

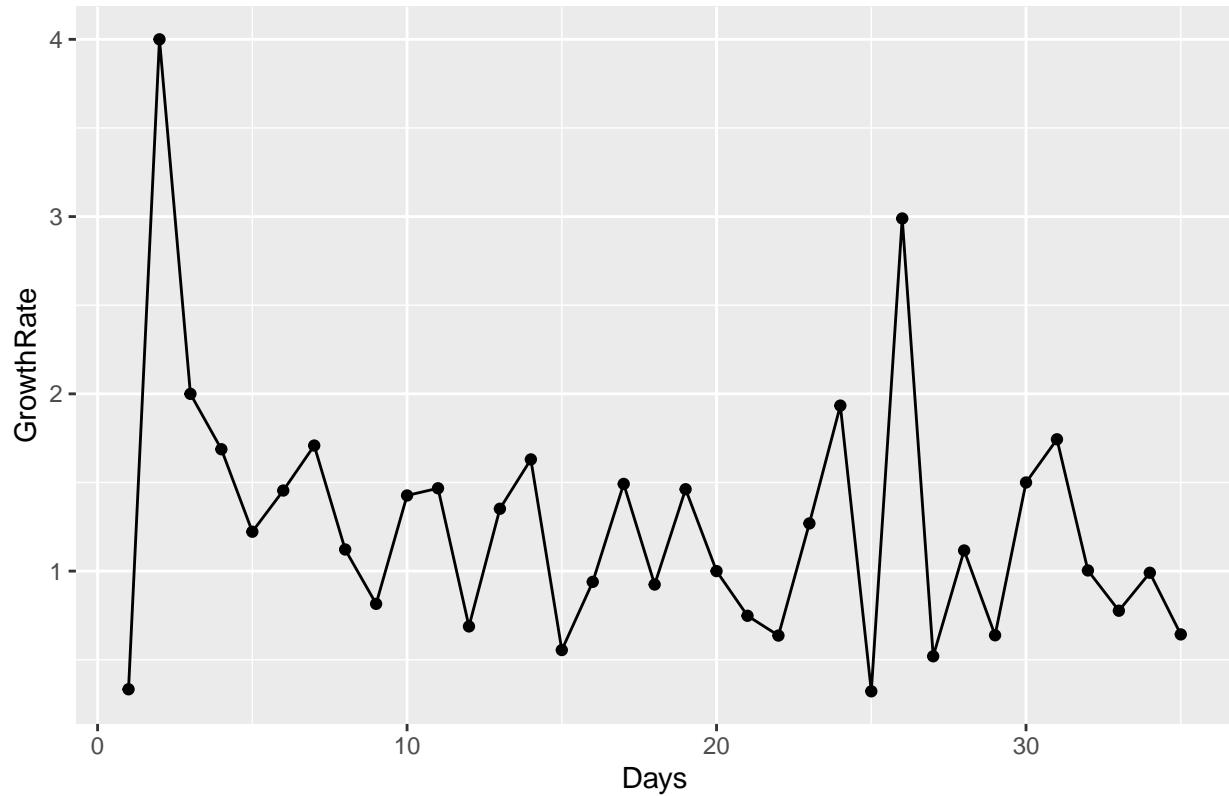
### Arizona: Daily Cases



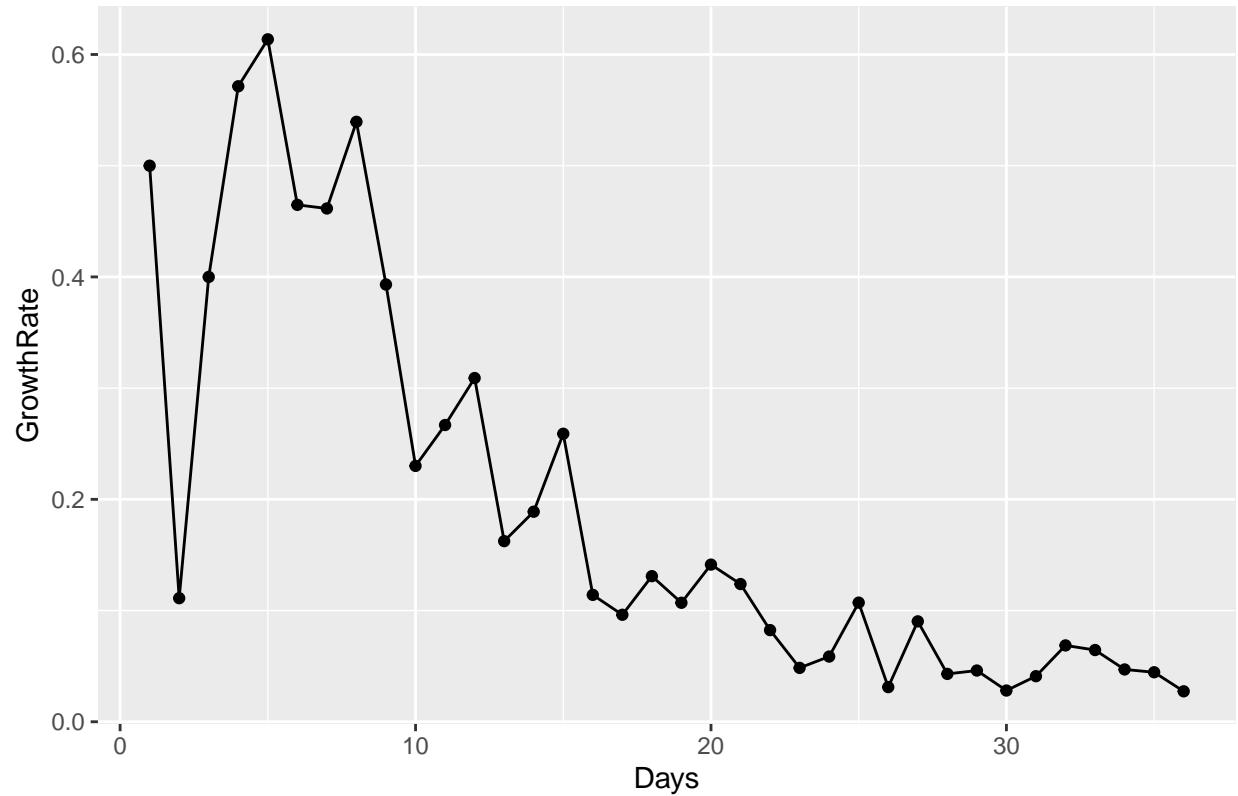
### Arizona: Daily Cases



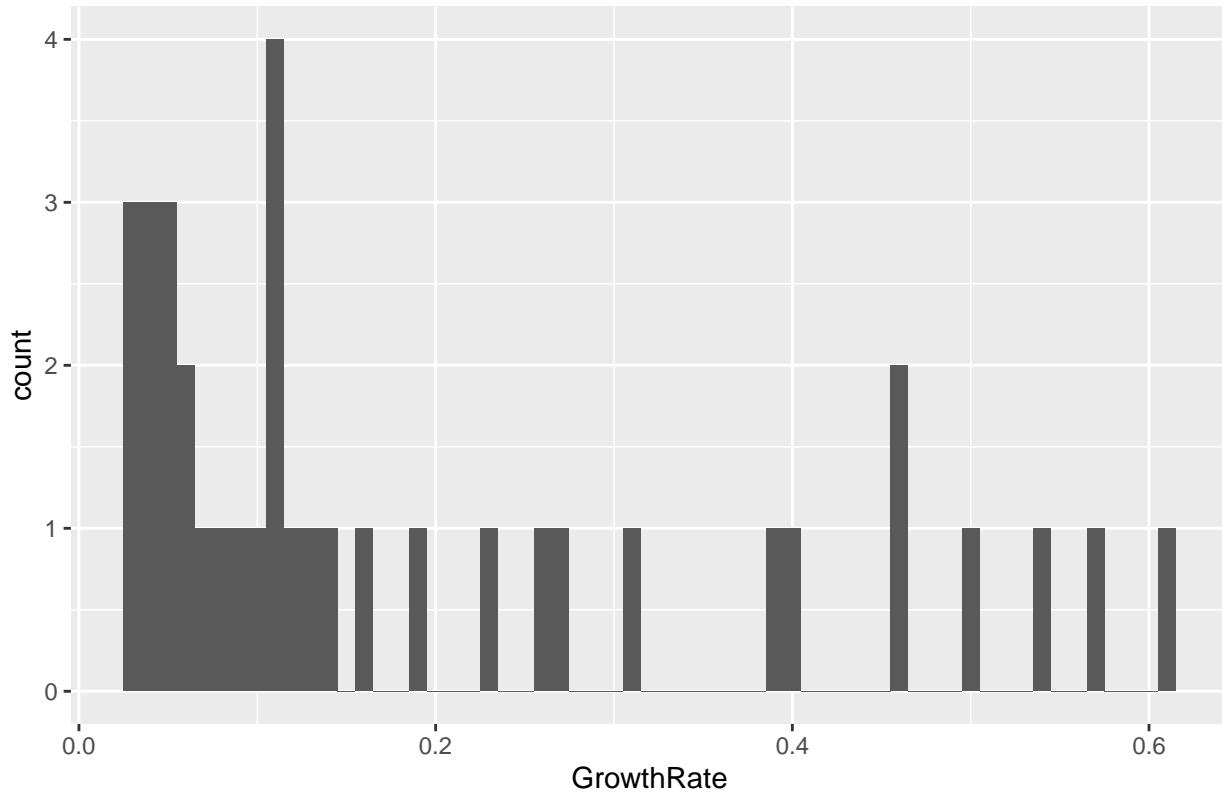
### Arizona: Rate of change in Growth Rate



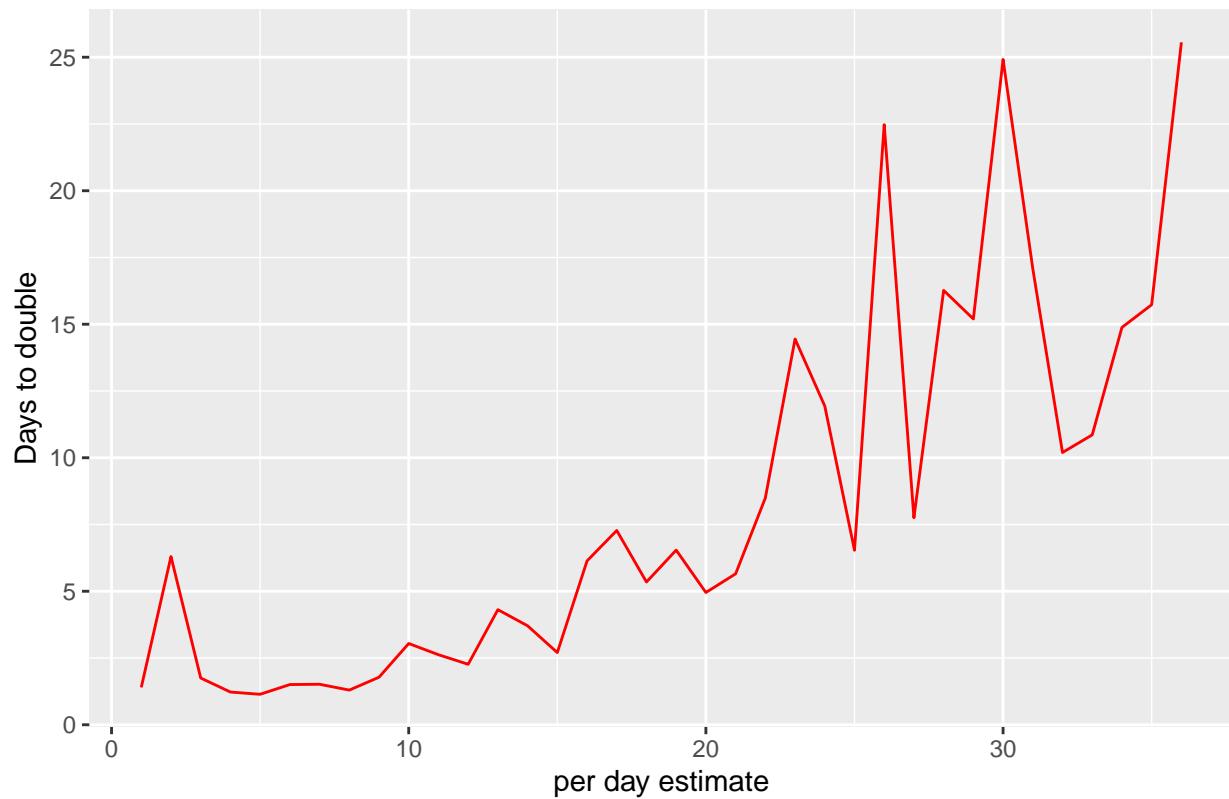
## Arizona: Growth Rate



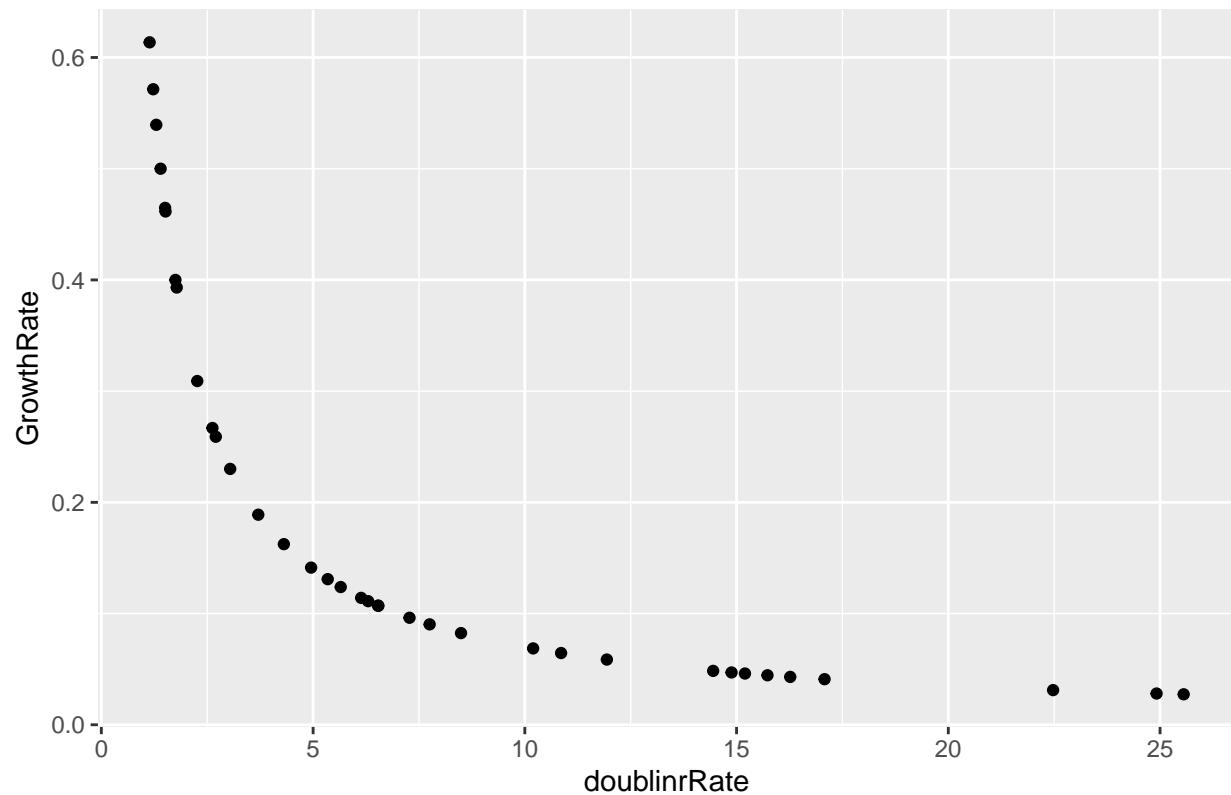
Histogram of GrowthRate



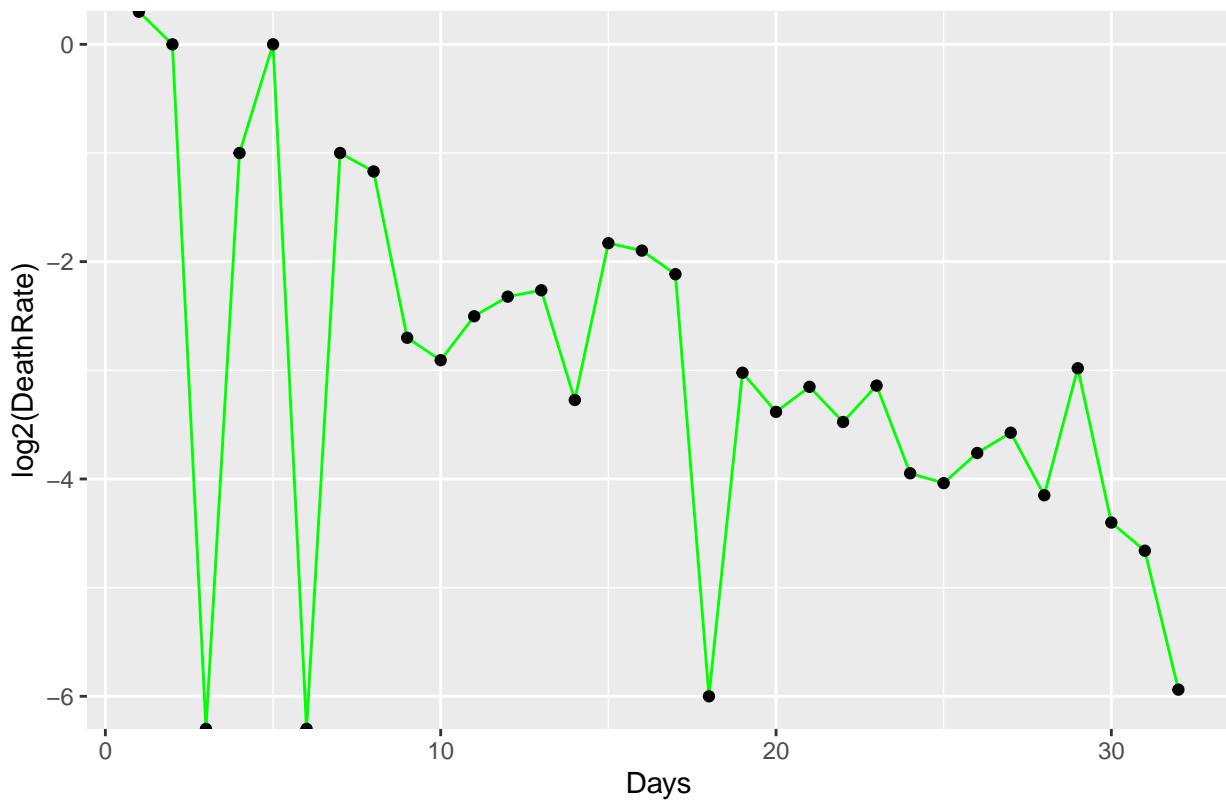
## Doubling Rate in days



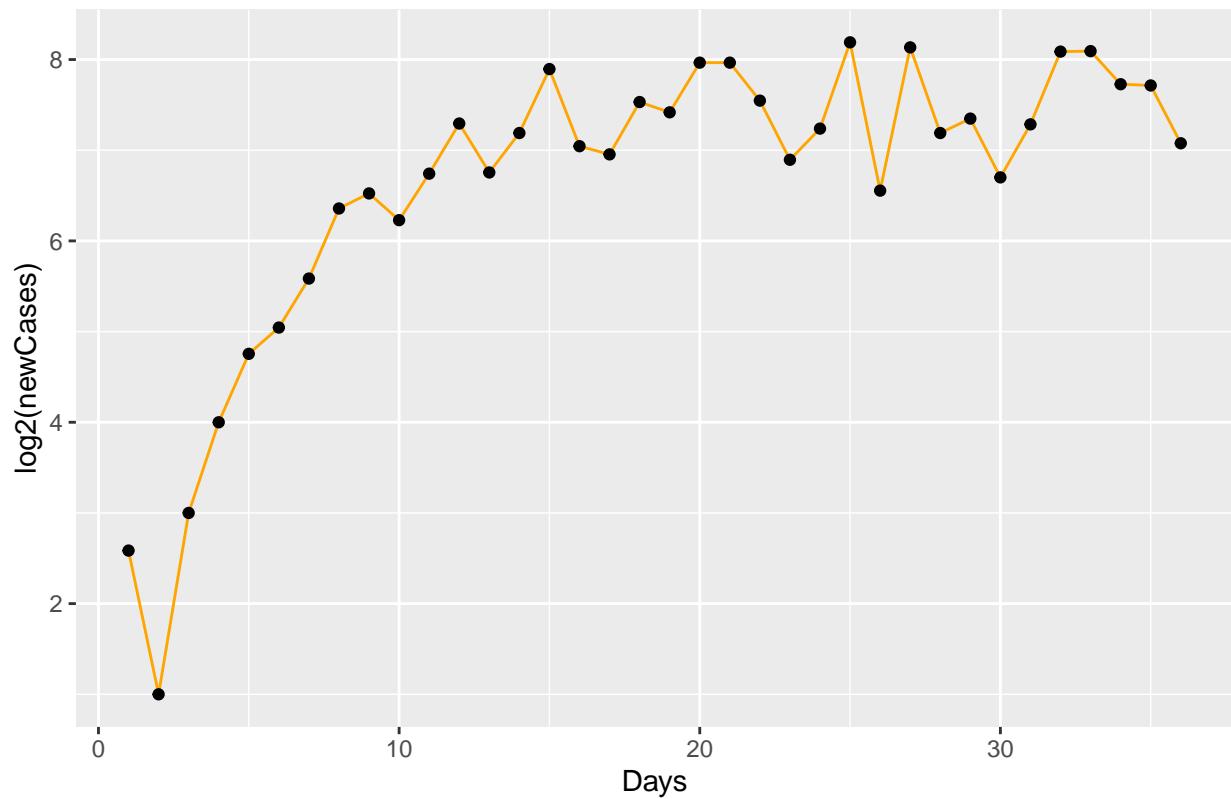
## Doubling Rate vs Growth Rate



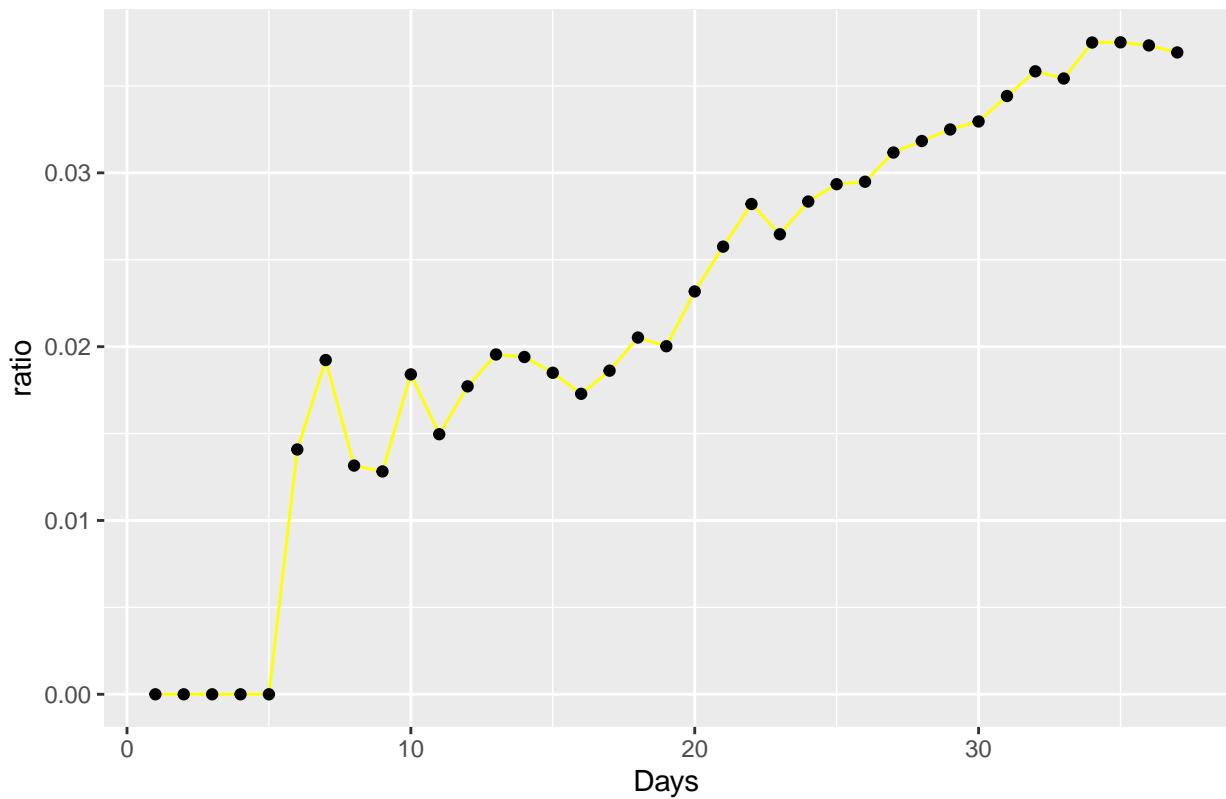
### Arizona: Daily Death Rate



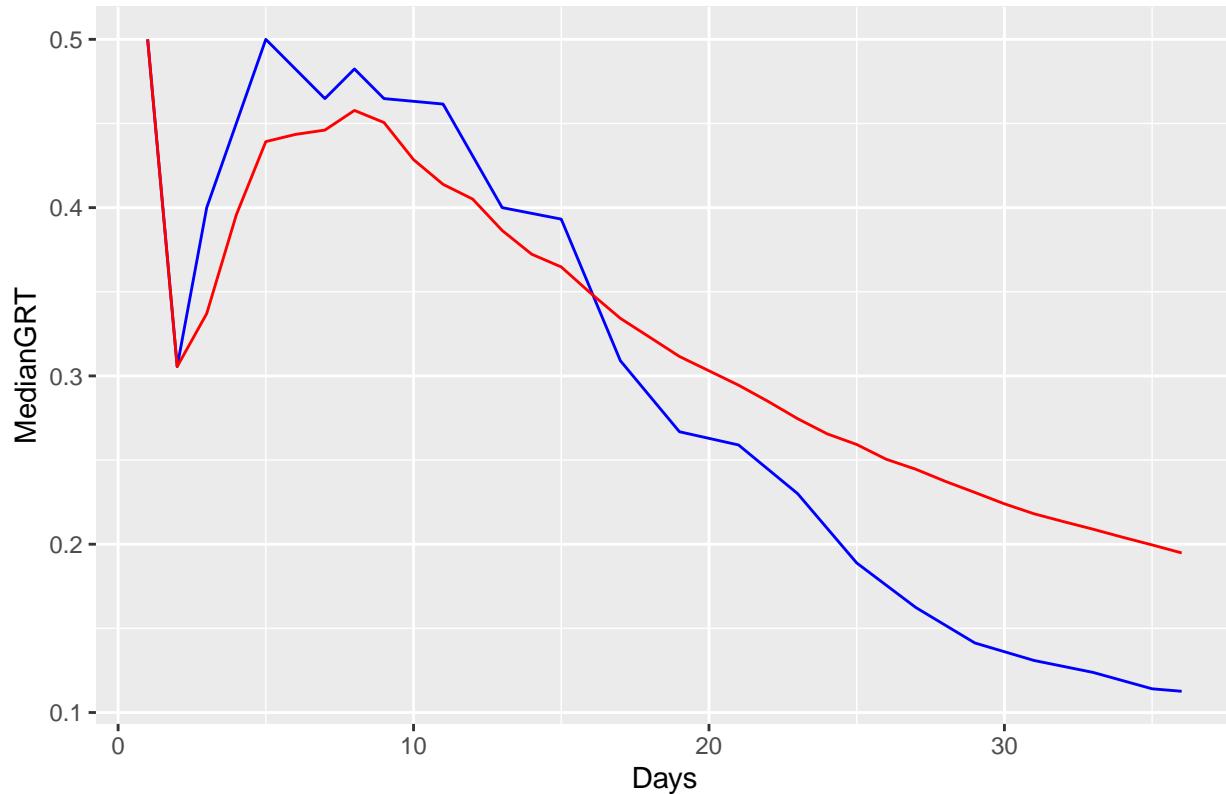
Arizona:newCases(Orange)



### Arizona: TotalDeaths/TotalCases



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

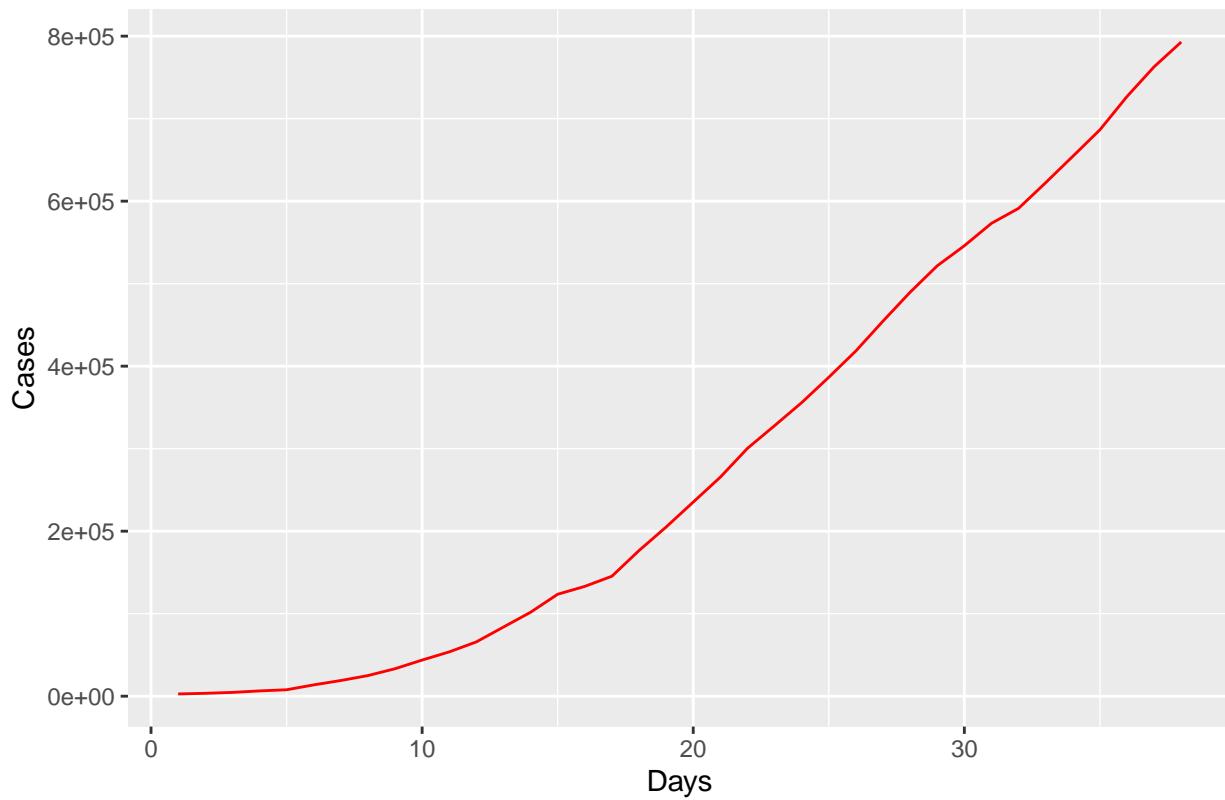


### Results:

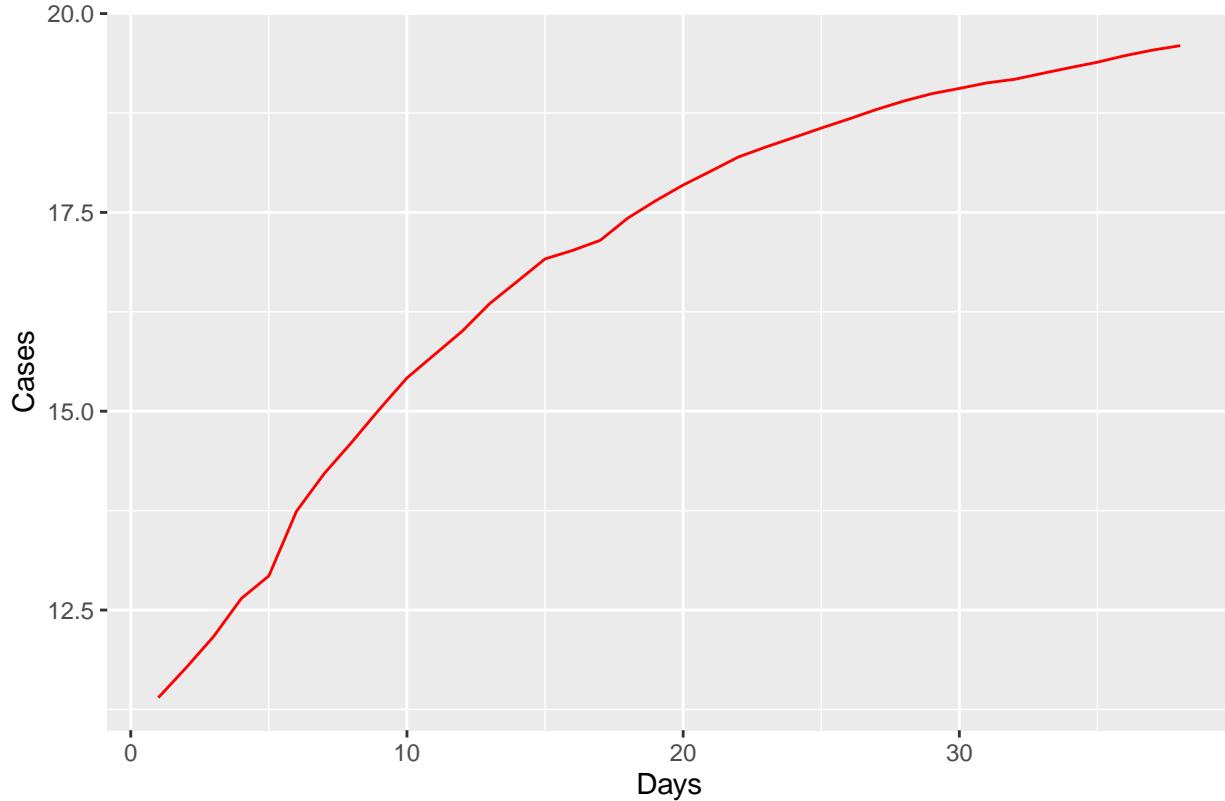
- Tomorrows predicted case number is between **5202.6975046** and **6050.496708** cases.
- Current doubling rate is **26 days**
- Mean doubling rate, i.e number of cases doubles every **4 days**.
- Median doubling rate, i.e number of cases doubles every **6 days**.
- Latest Observed Growth Rate **2.7388923** percent.
- Mean Growth Rate: **19.4805827** percent.
- Median Growth Rate: **11.2599635** percent.
- Standard deviation: +/- **17.9066339**.

## US Corona Dashboard

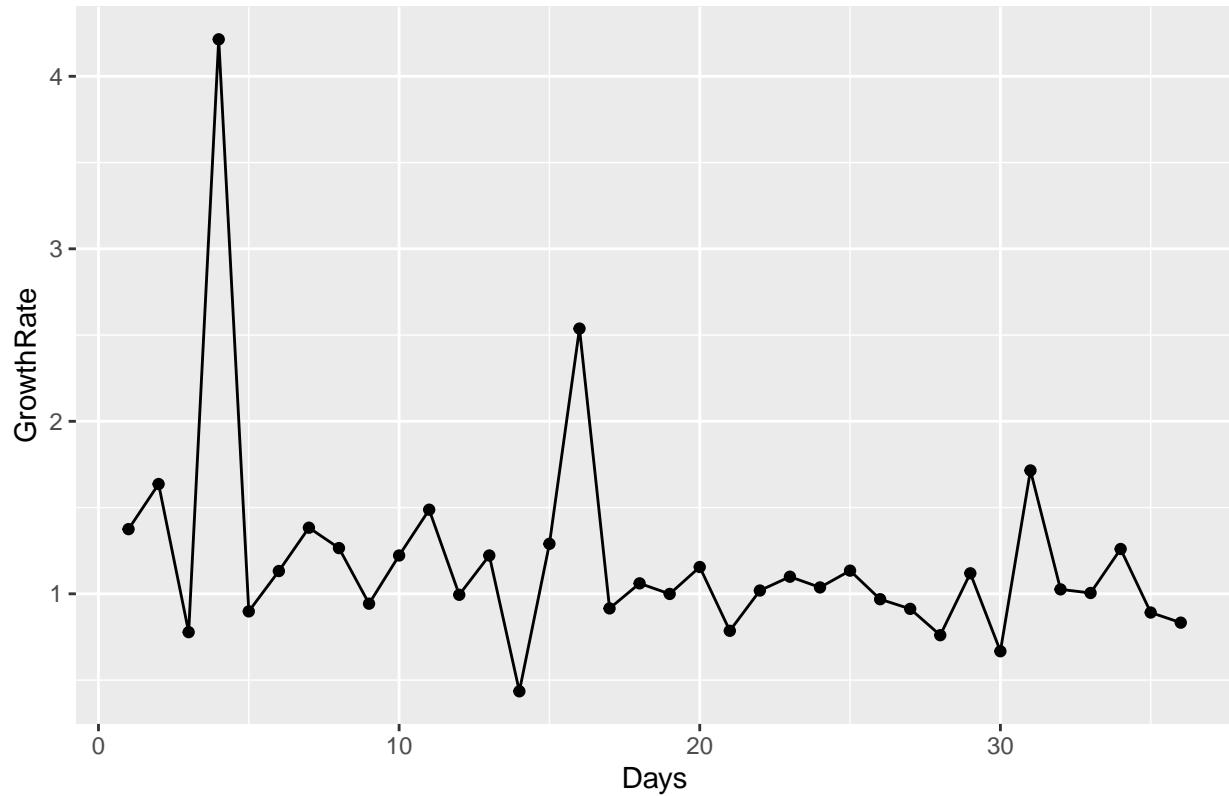
### US: Daily Cases



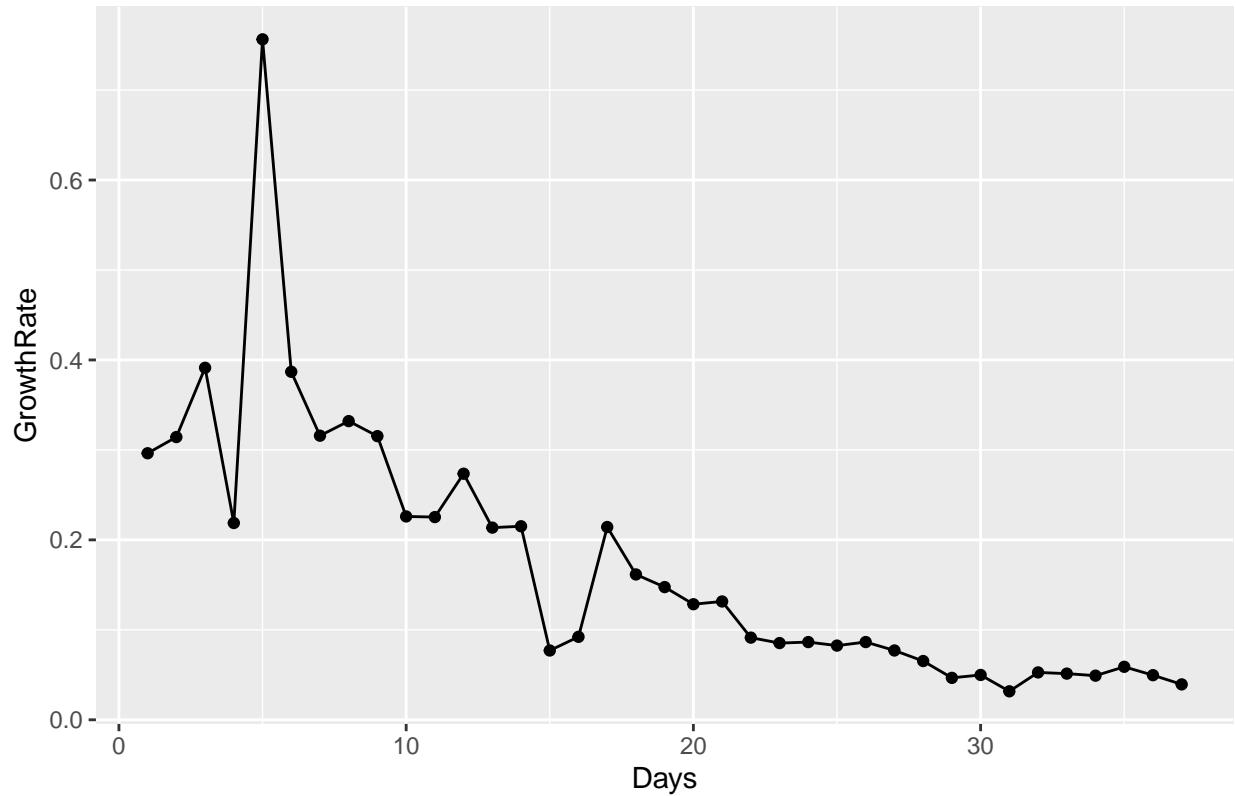
### US: Daily Cases



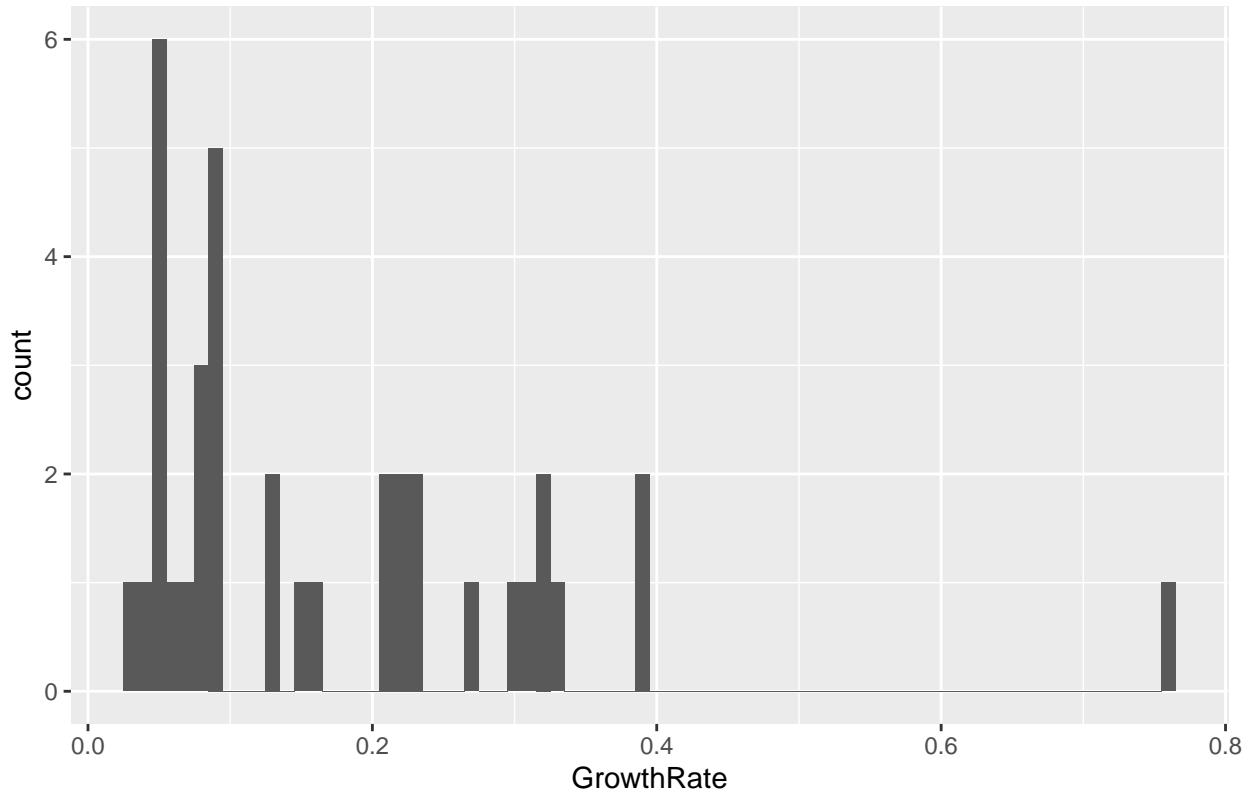
### US: Rate of change in Growth Rate



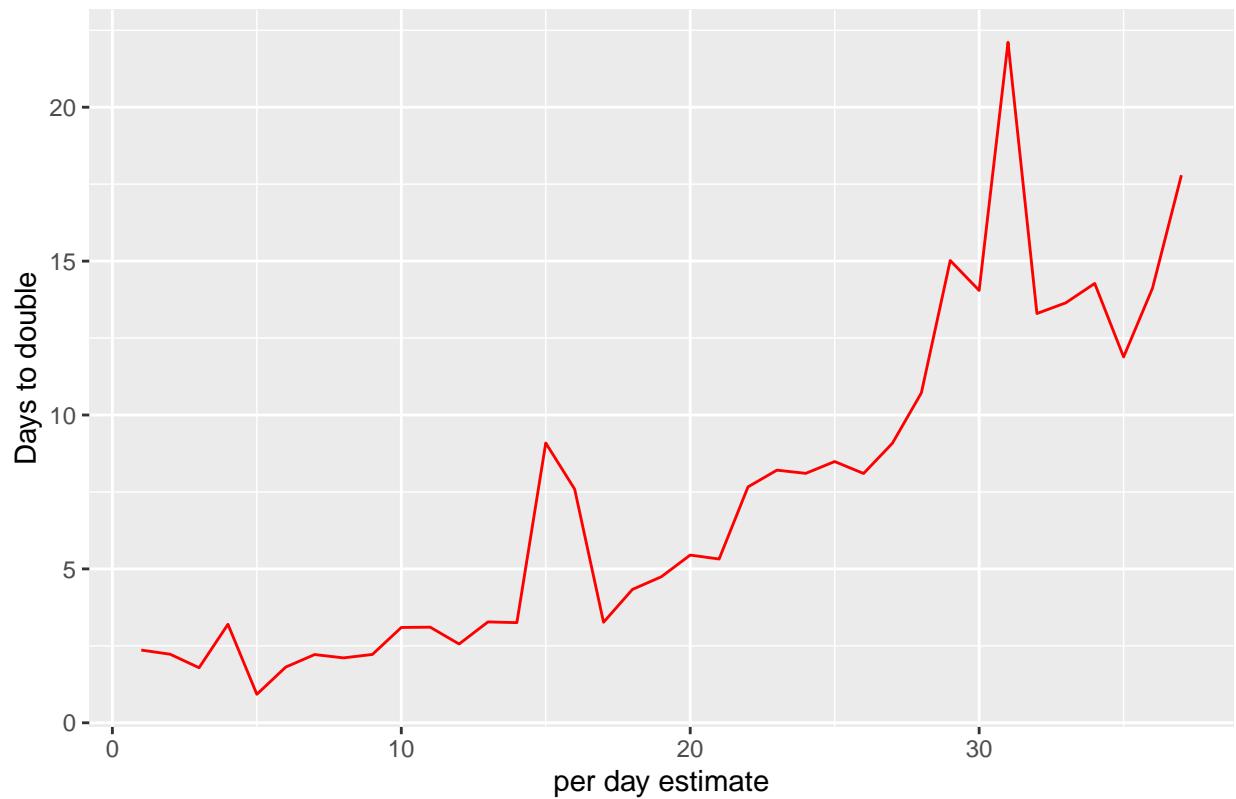
## US: Growth Rate



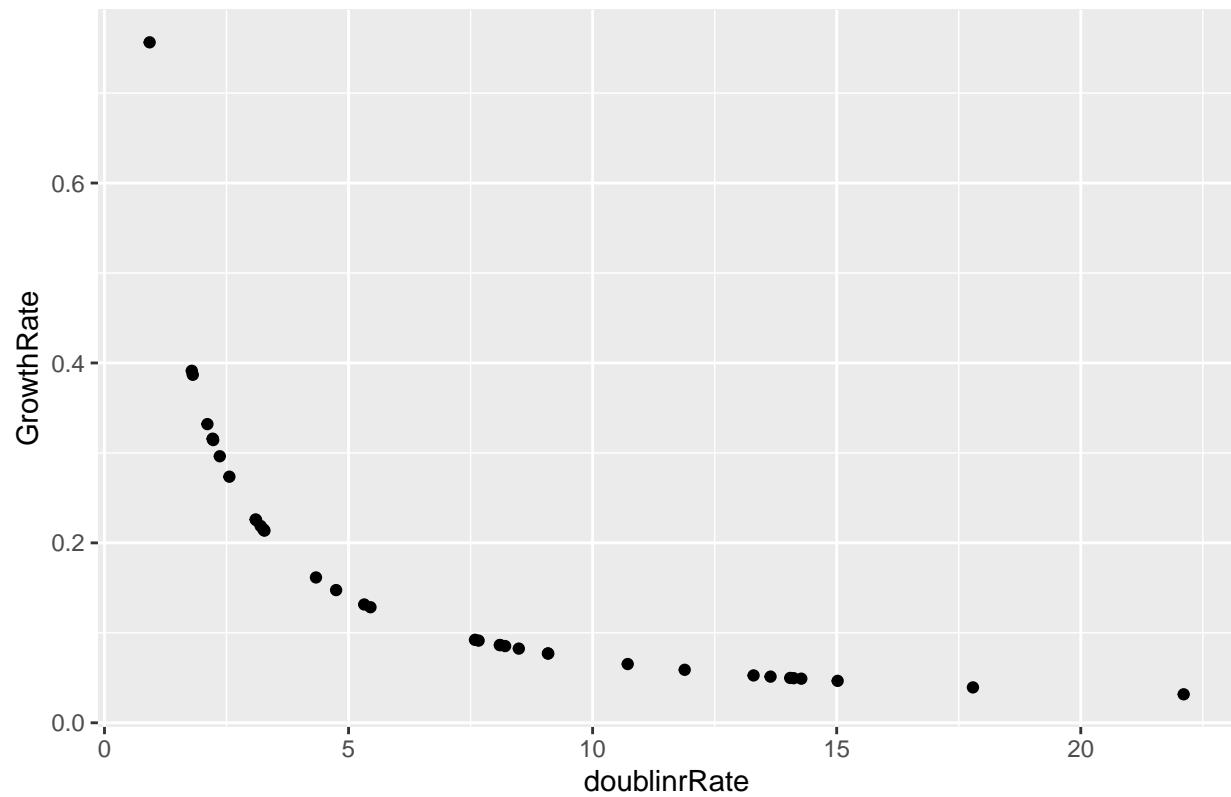
Histogram of GrowthRate



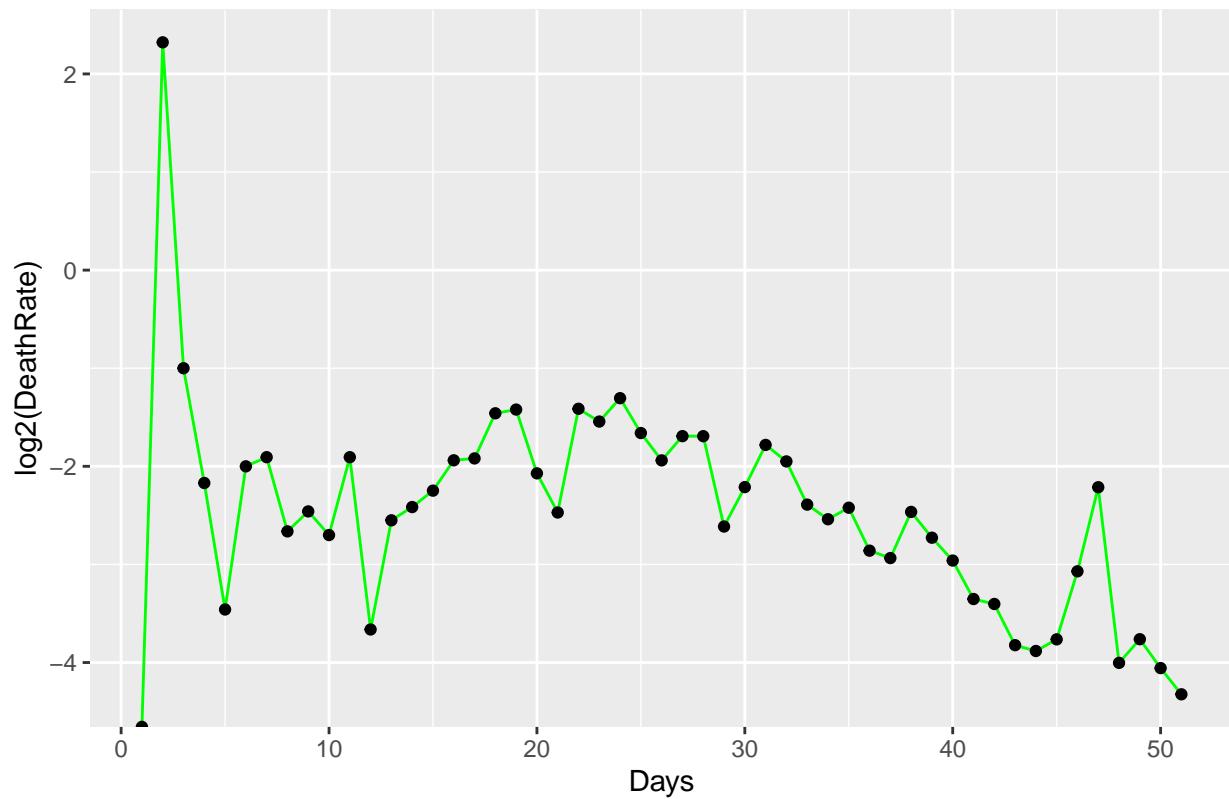
## Doubling Rate in days



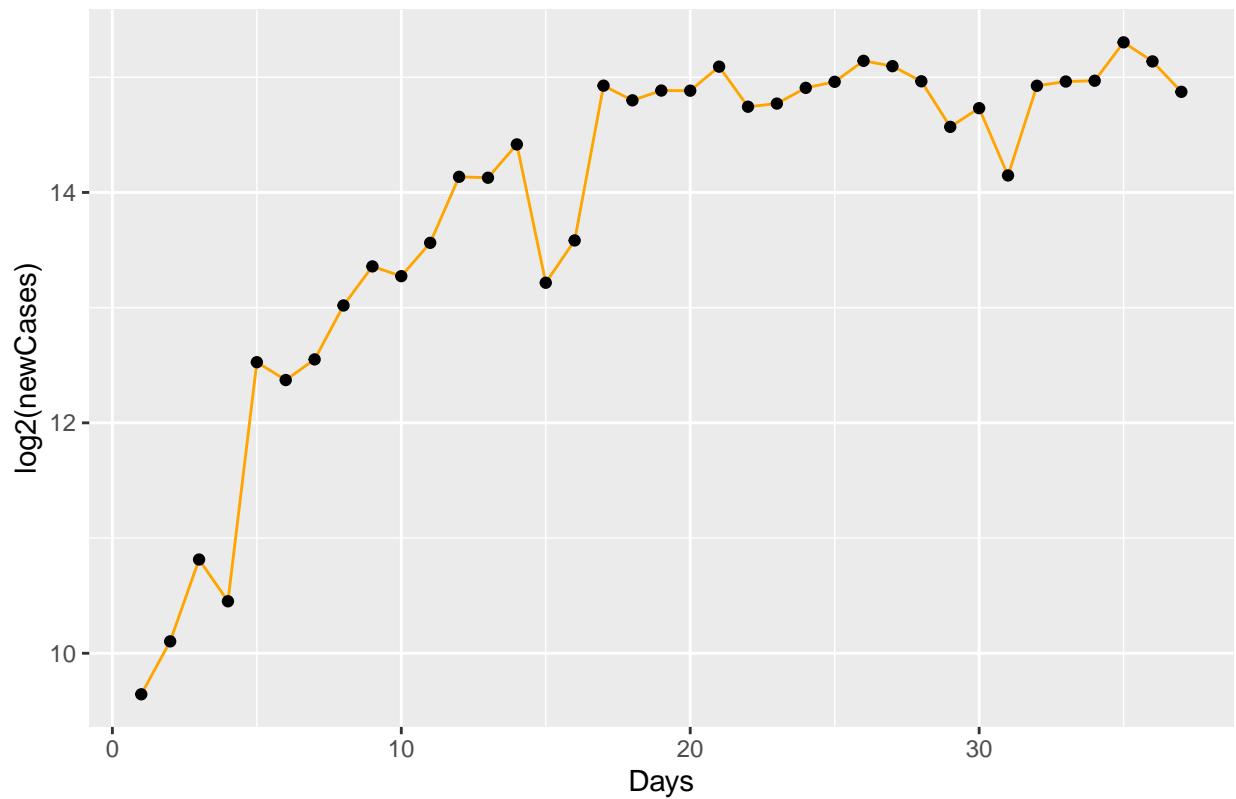
## Doubling Rate vs Growth Rate



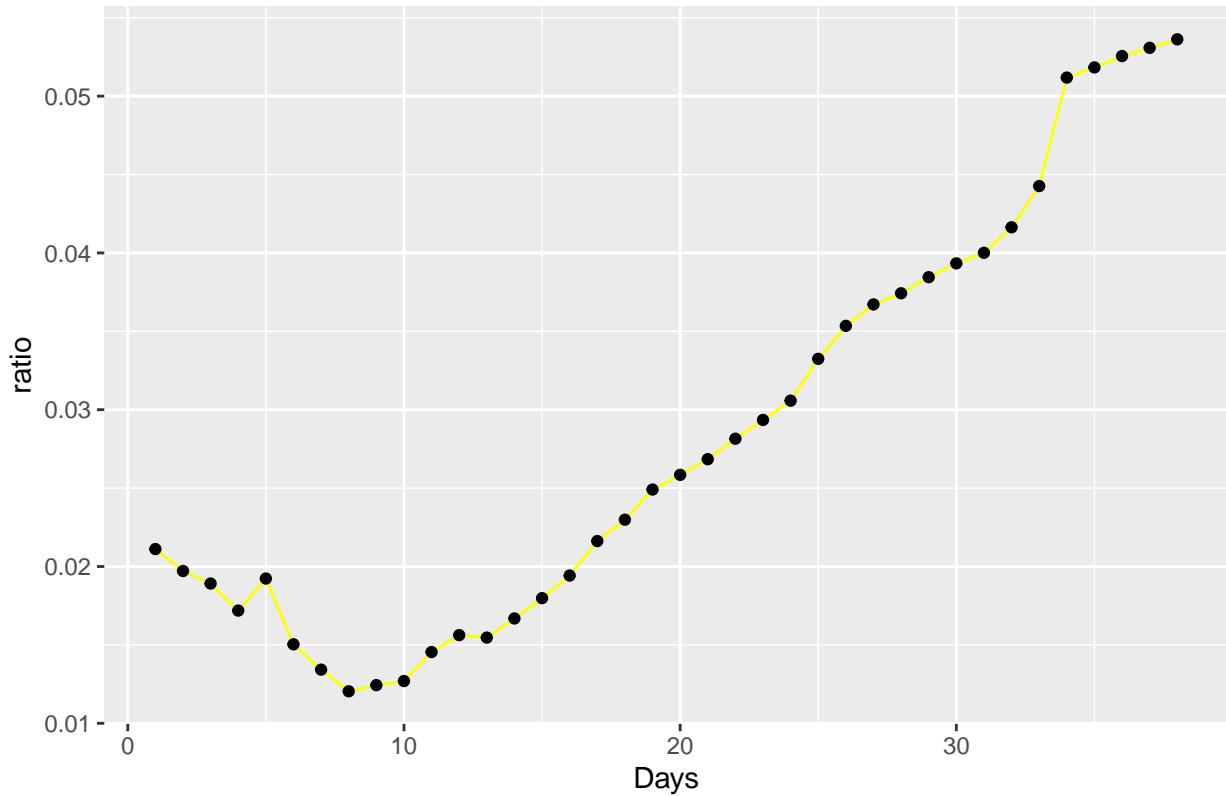
## US: Daily Death Rate



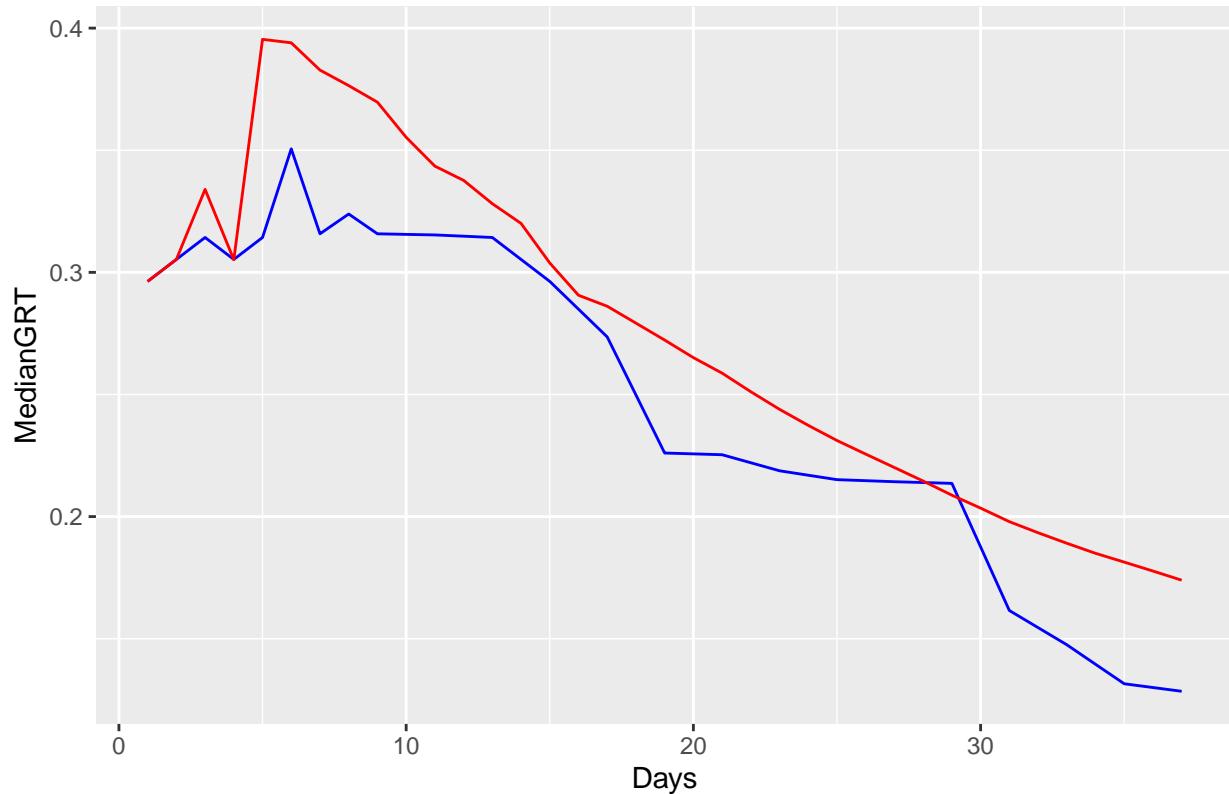
US:newCases(Orange)



### US: TotalDeaths/TotalCases



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

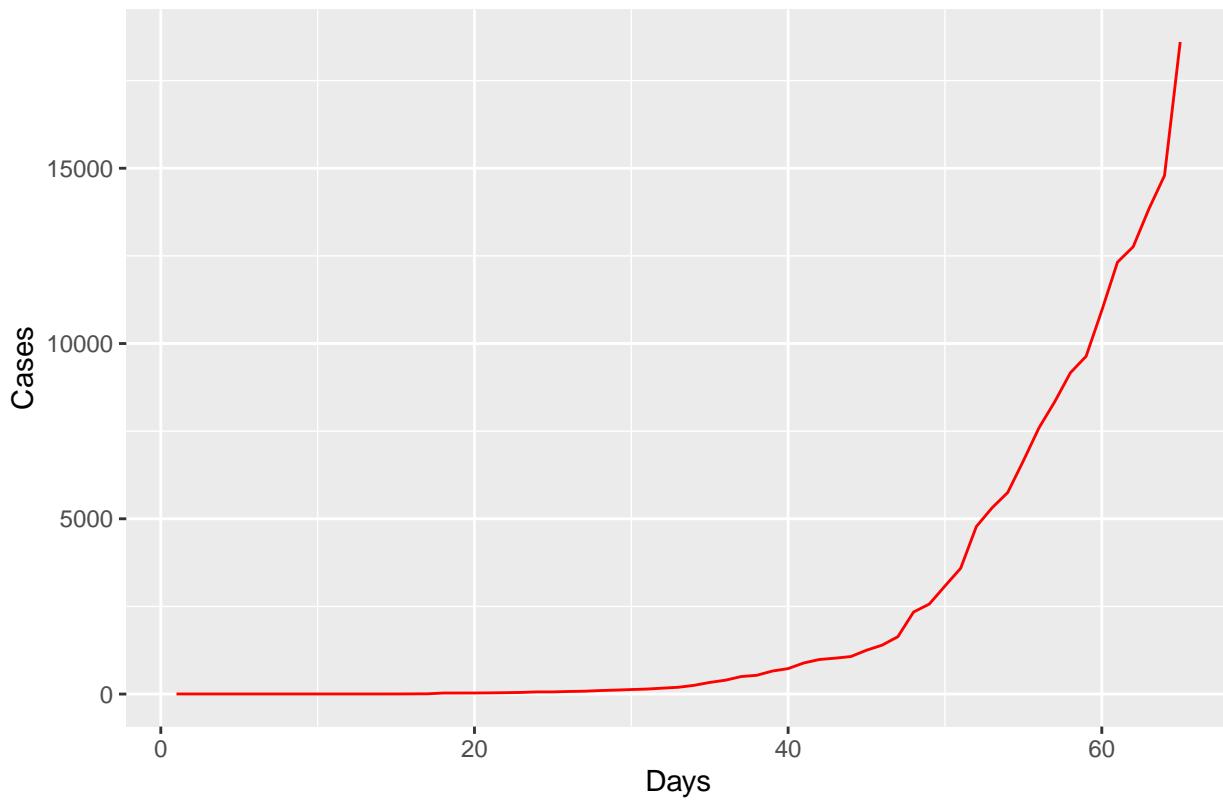


#### Results:

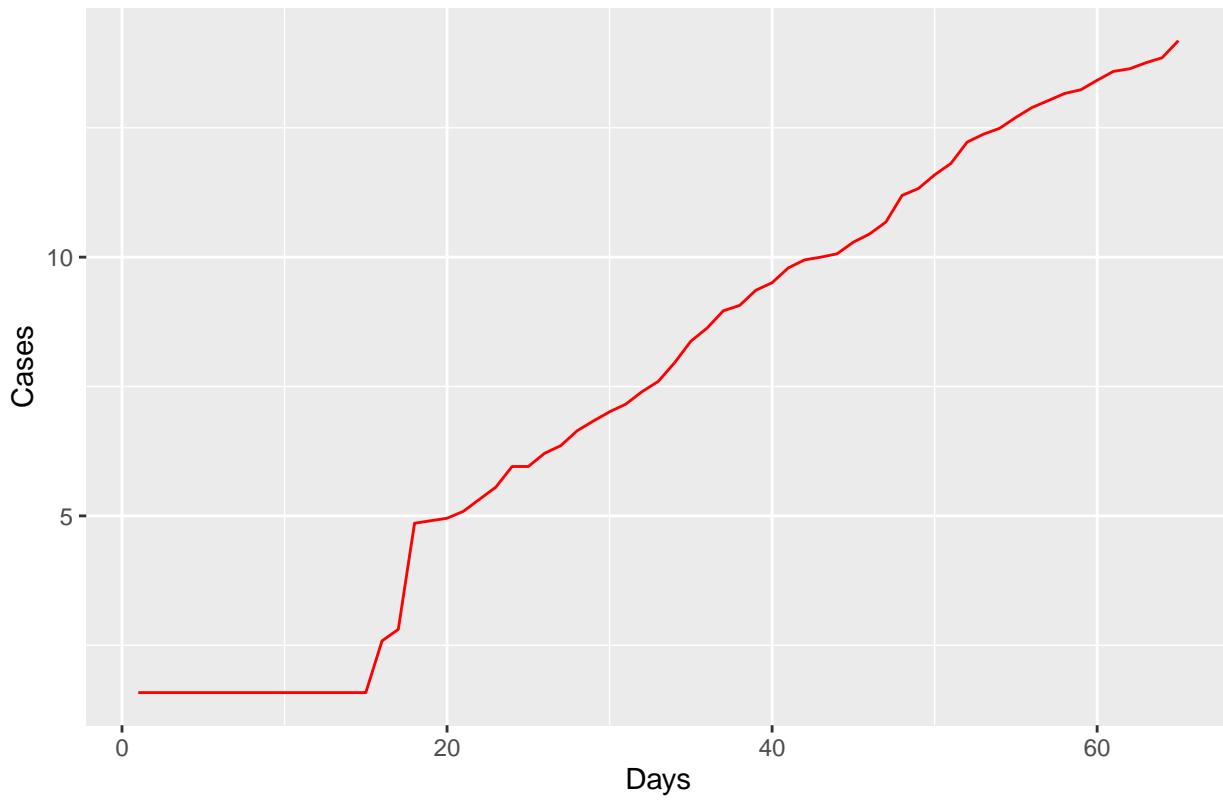
- Tomorrows predicted case number is between  $8.2411105 \times 10^5$  and  $9.3084539 \times 10^5$  cases.
- Current doubling rate is **18 days**
- Mean doubling rate, i.e number of cases doubles every **4 days**.
- Median doubling rate, i.e number of cases doubles every **5 days**.
- Latest Observed Growth Rate **3.9346123** percent.
- Mean Growth Rate: **17.3956524** percent.
- Median Growth Rate: **12.8463412** percent.
- Standard deviation: +/- **14.7024081**.

## India Corona Dashboard

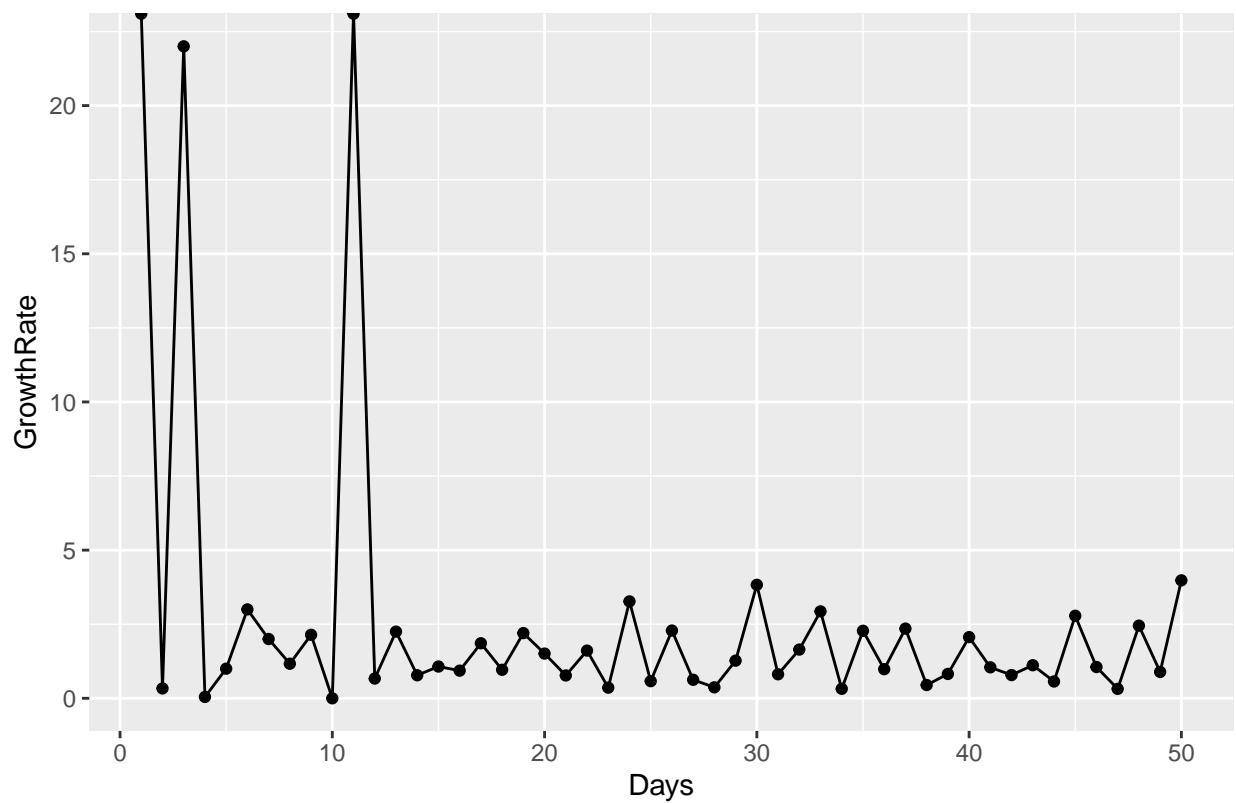
### India: Daily Cases



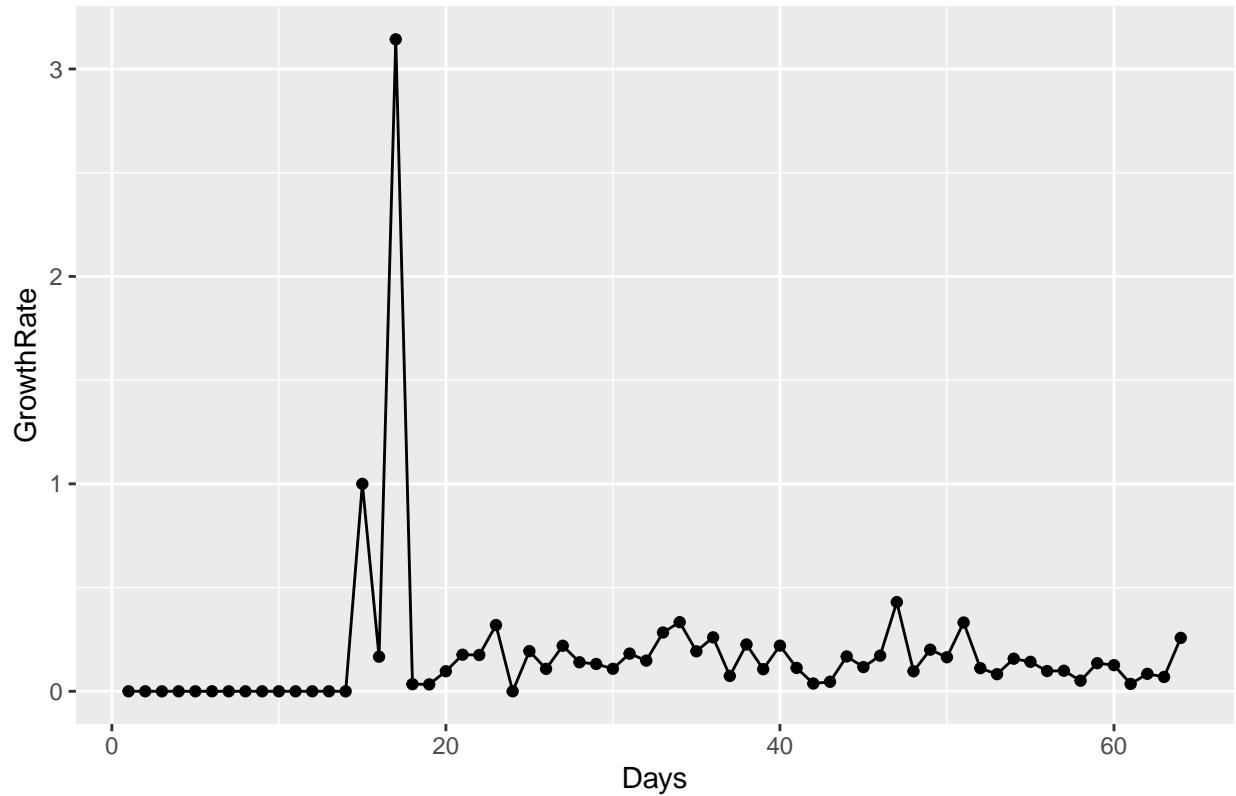
### India: Daily Cases



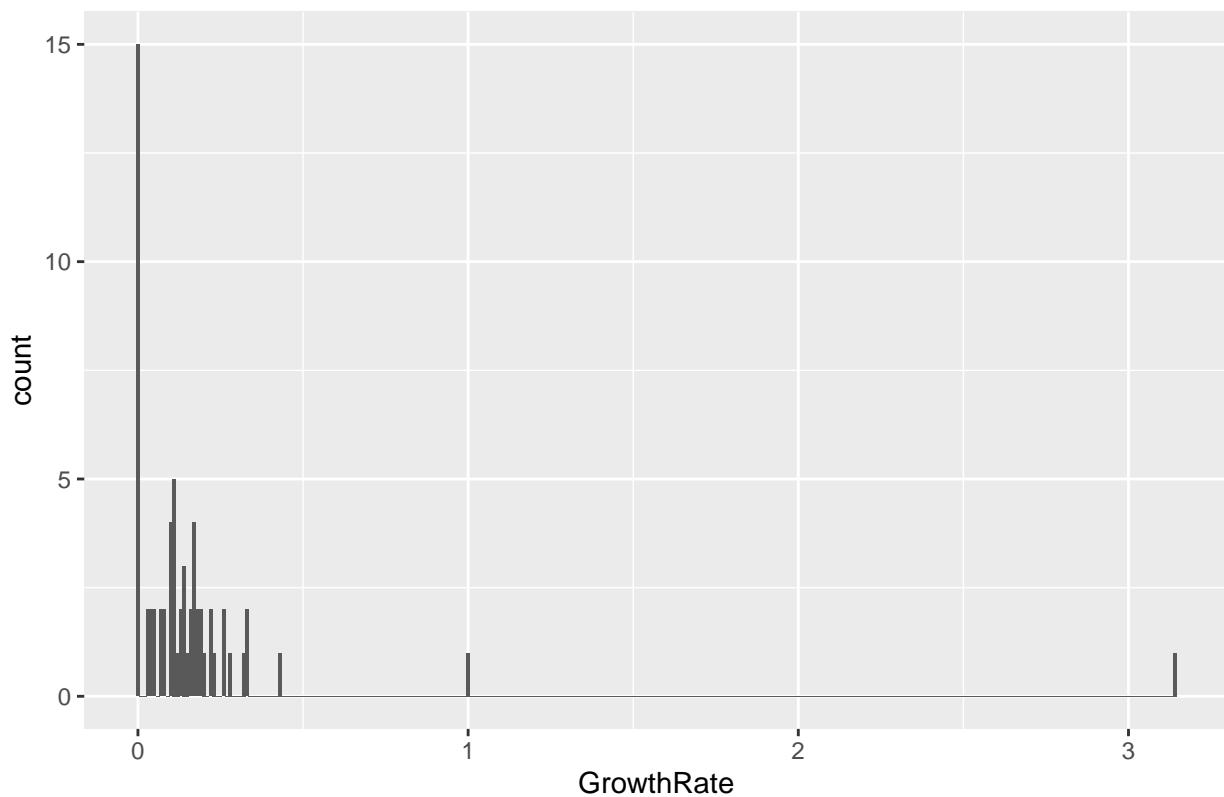
US: Rate of change in Growth Rate



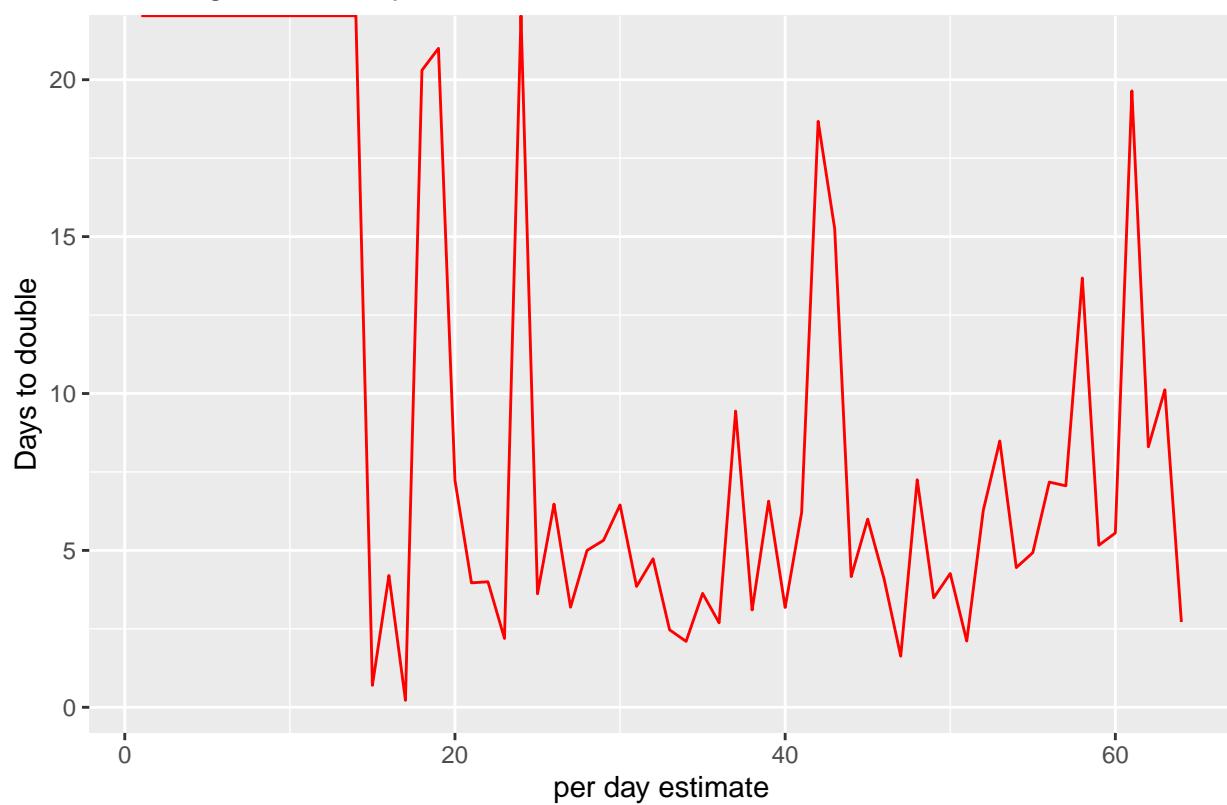
## India: Growth Rate



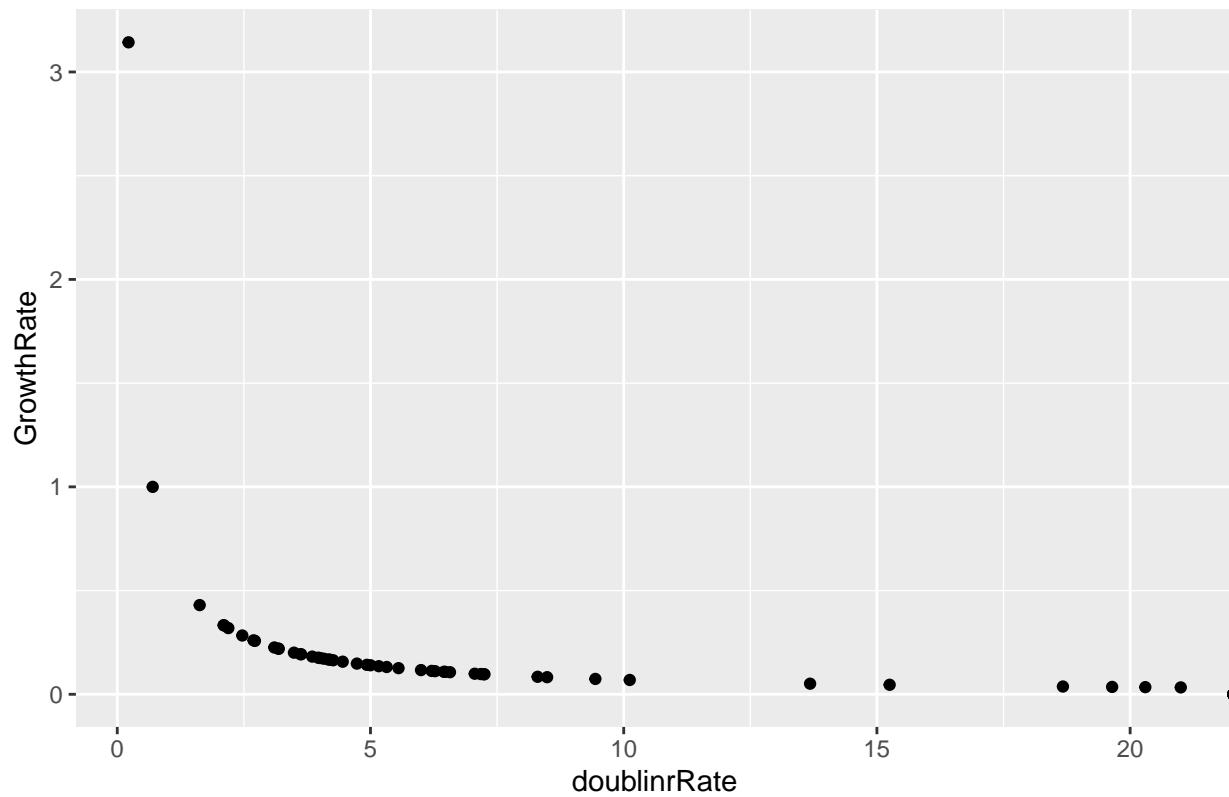
Histogram of GrowthRate



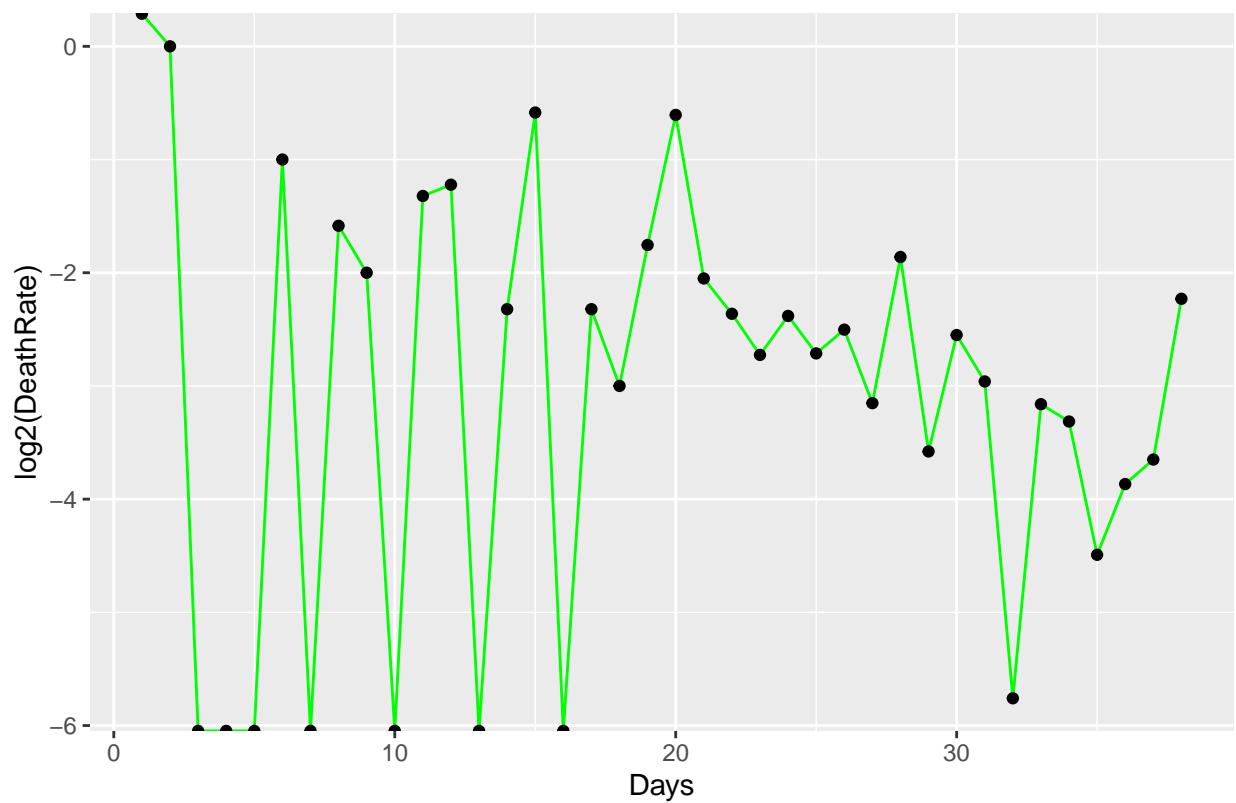
### Doubling Rate in days



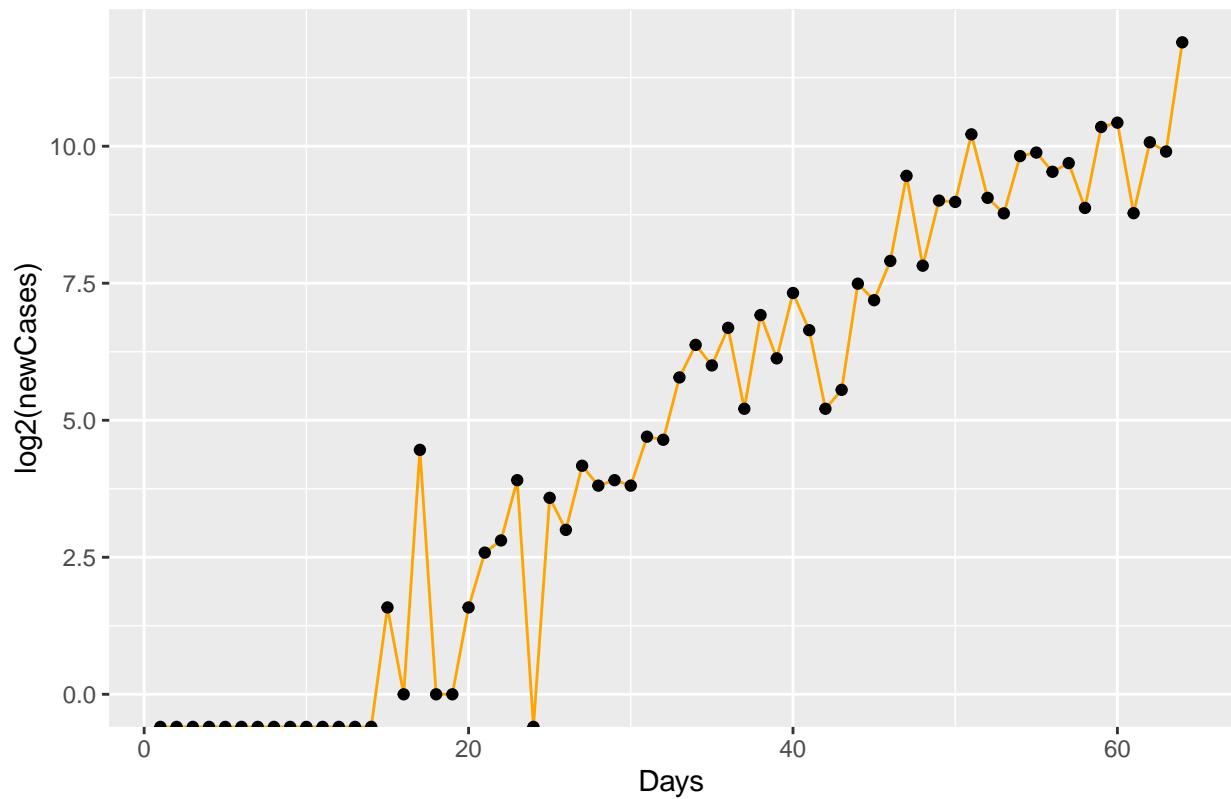
## Doubling Rate vs Growth Rate



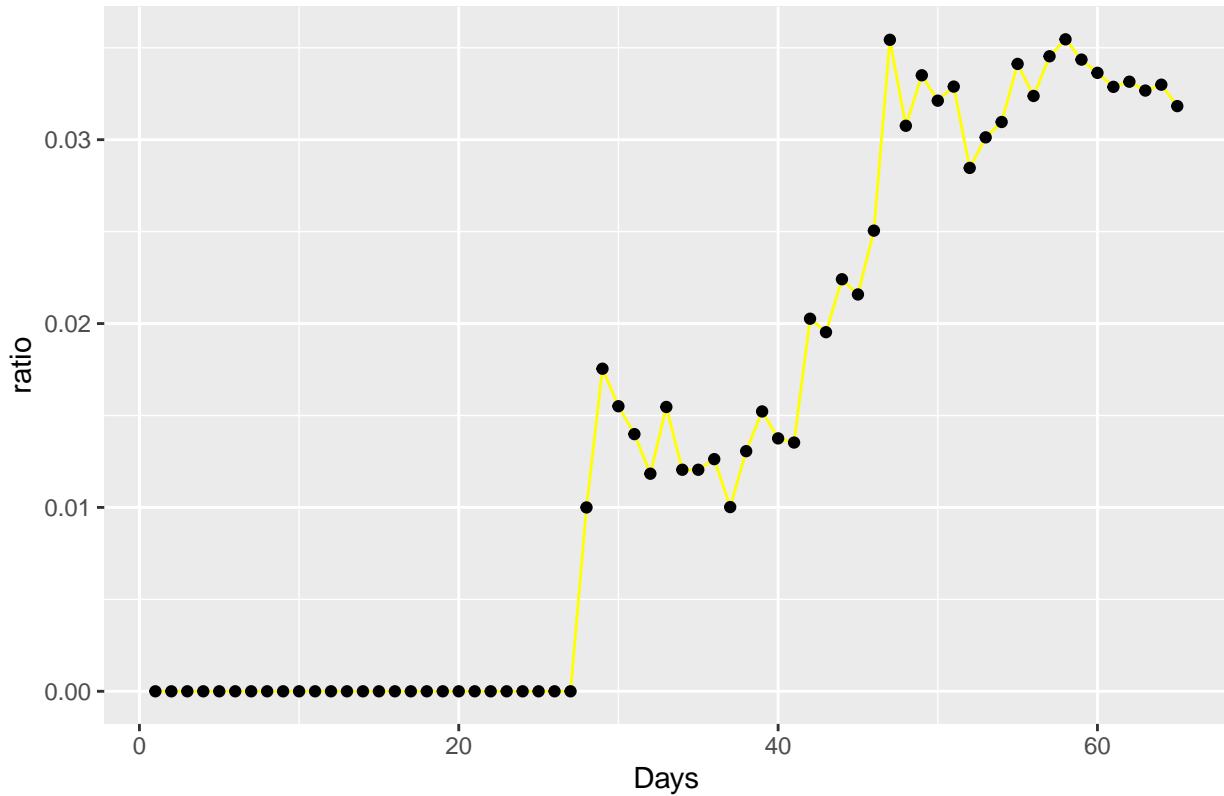
### India: Daily Death Rate



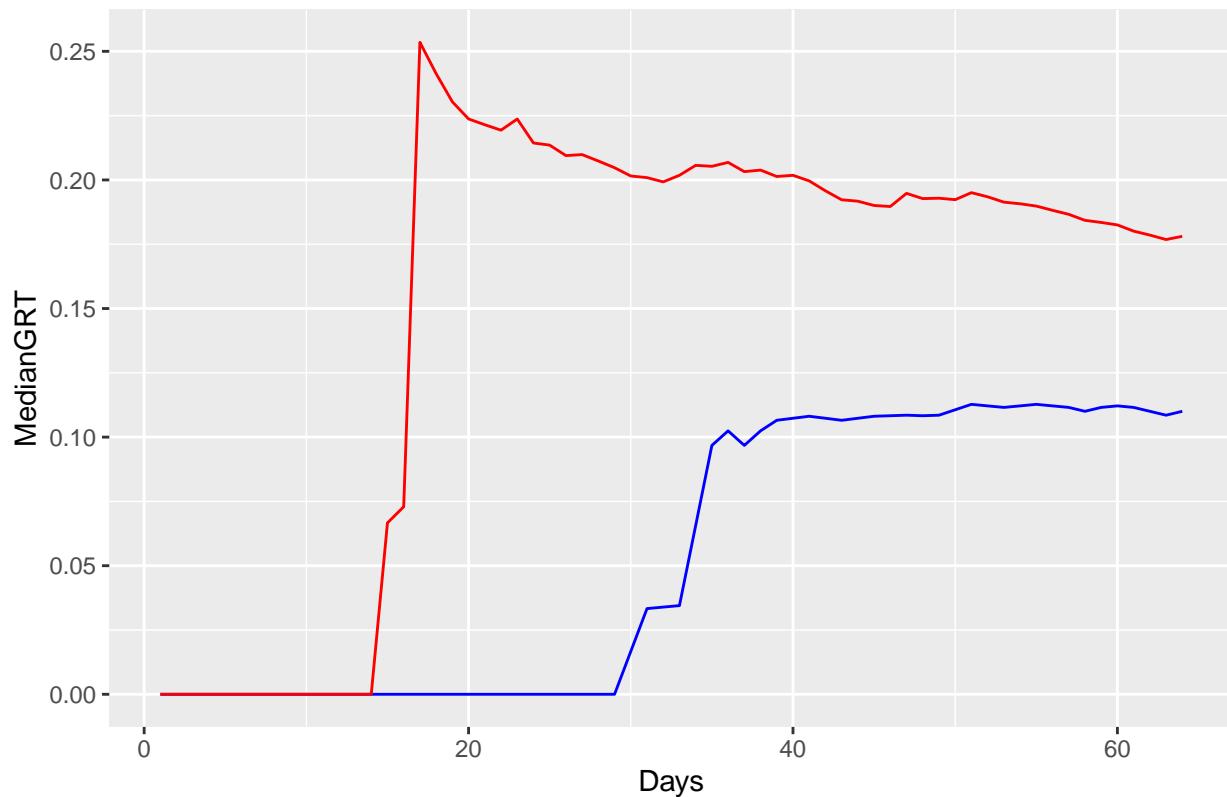
India:newCases(Orange)



### India: TotalDeaths/TotalCases



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



#### Results:

- Tomorrows predicted case number is between  $2.3390833 \times 10^4$  and  $2.1913474 \times 10^4$  cases.
- Current doubling rate is **3 days**
- Mean doubling rate, i.e number of cases doubles every **4 days**.
- Median doubling rate, i.e number of cases doubles every **6 days**.
- Latest Observed Growth Rate **25.7504056** percent.
- Mean Growth Rate: **17.8080416** percent.
- Median Growth Rate: **11.0040041** percent.
- Standard deviation: +/- **40.4801365**.