

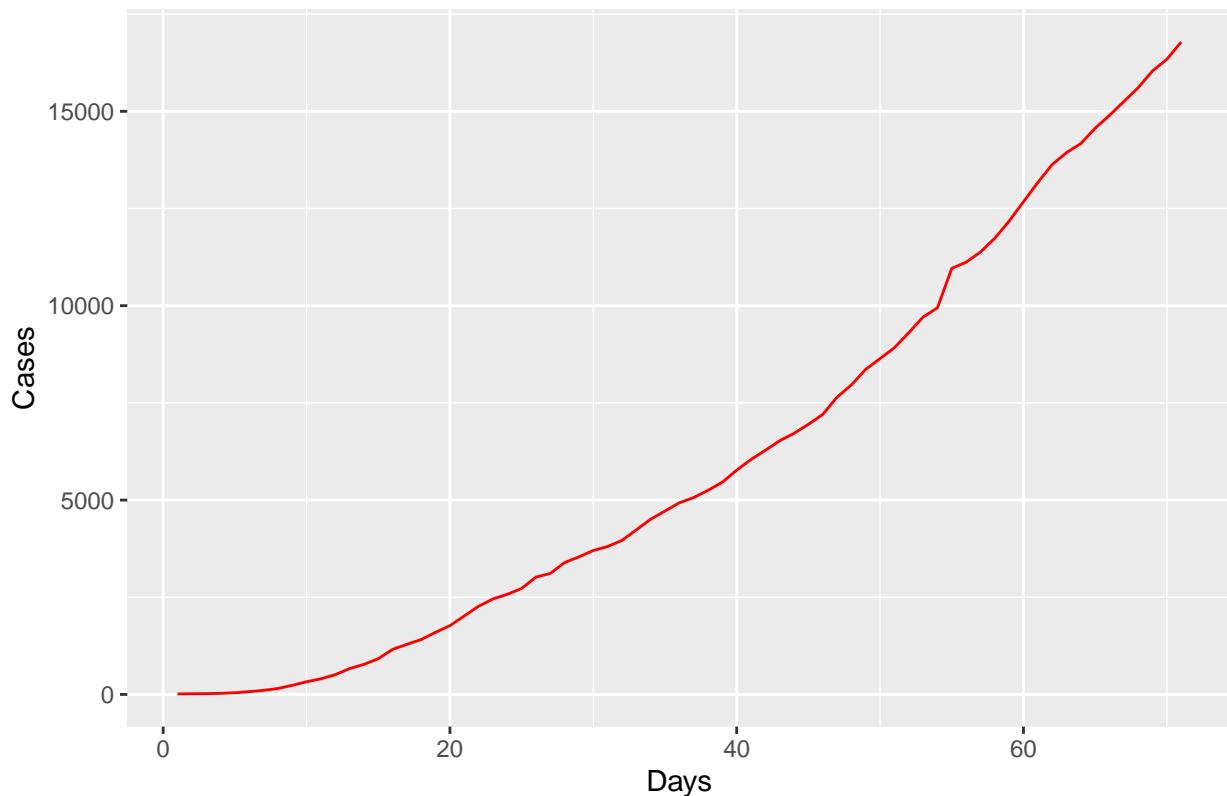
# Arizona/US/India Corona Trends- 13th May 2020 with tomorrow's prediction

Whitchurch Muthumani

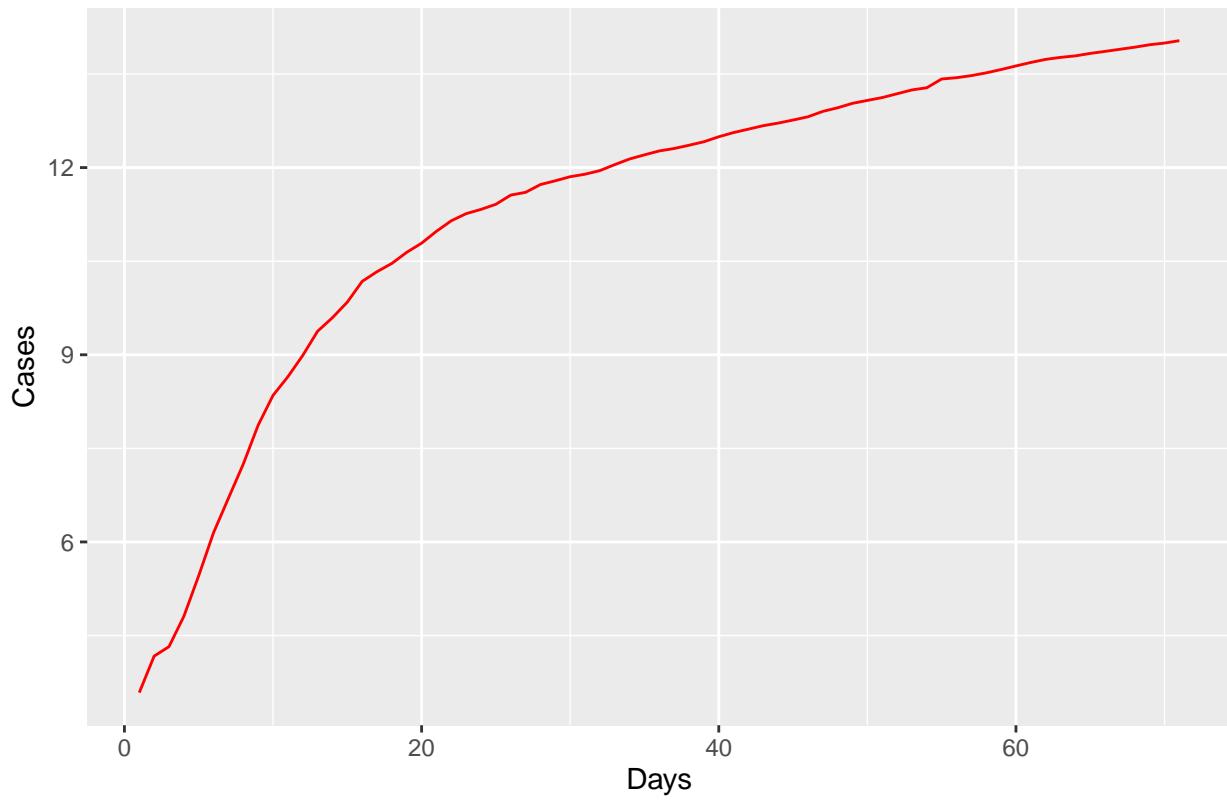
5/13/2020

## Arizona Corona Dashboard

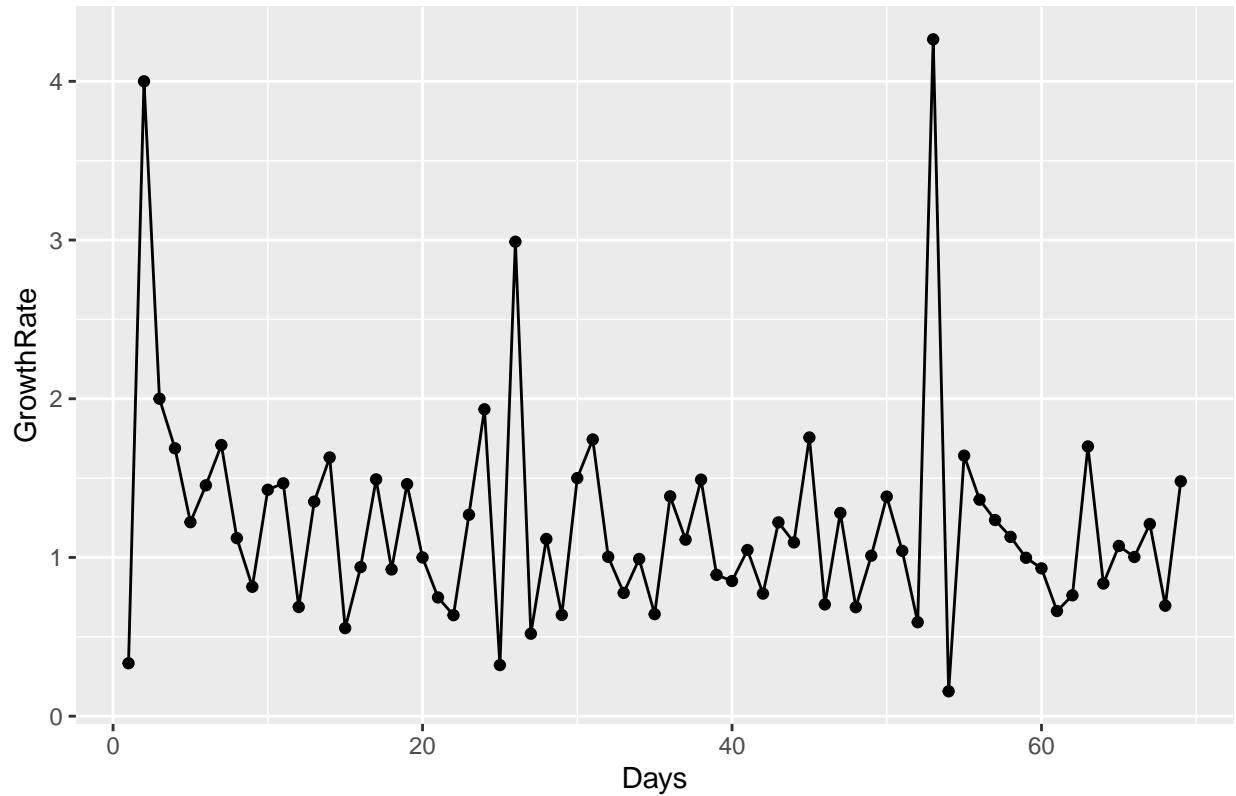
### Arizona: Daily Cases



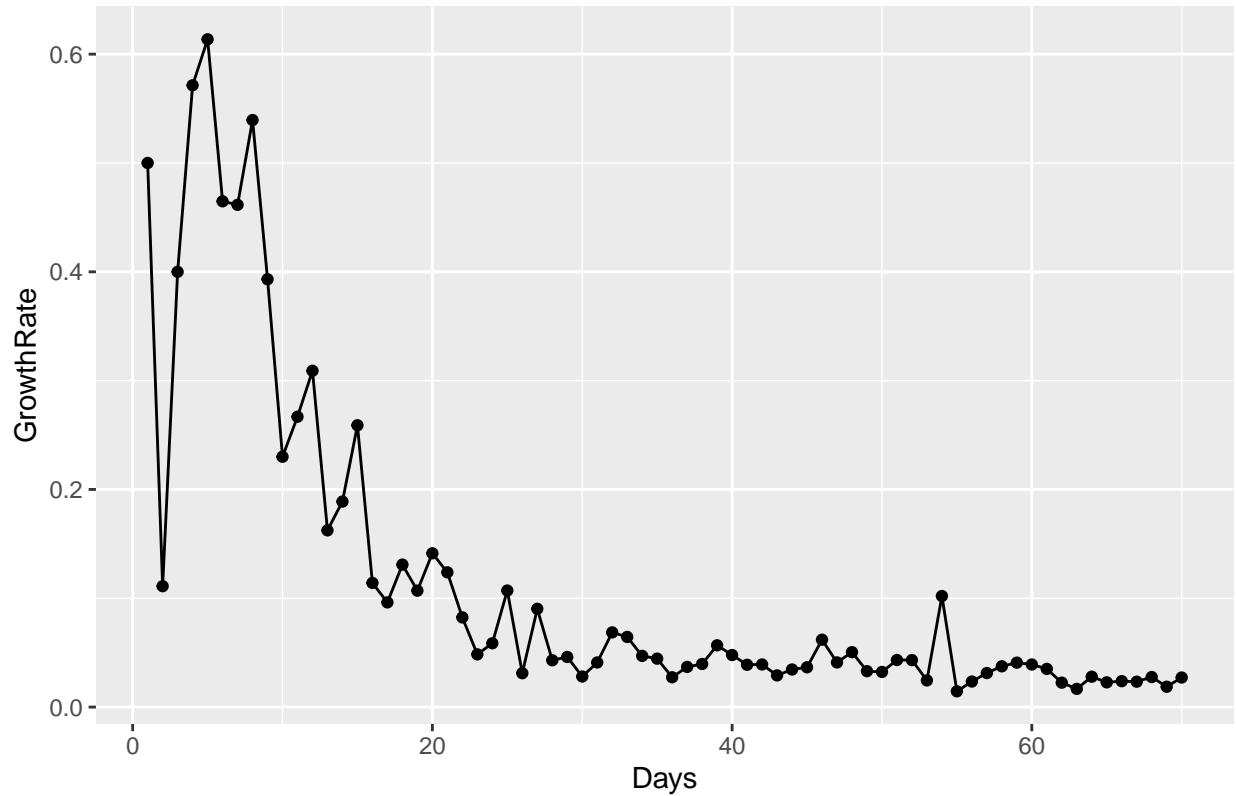
### Arizona: Daily Cases



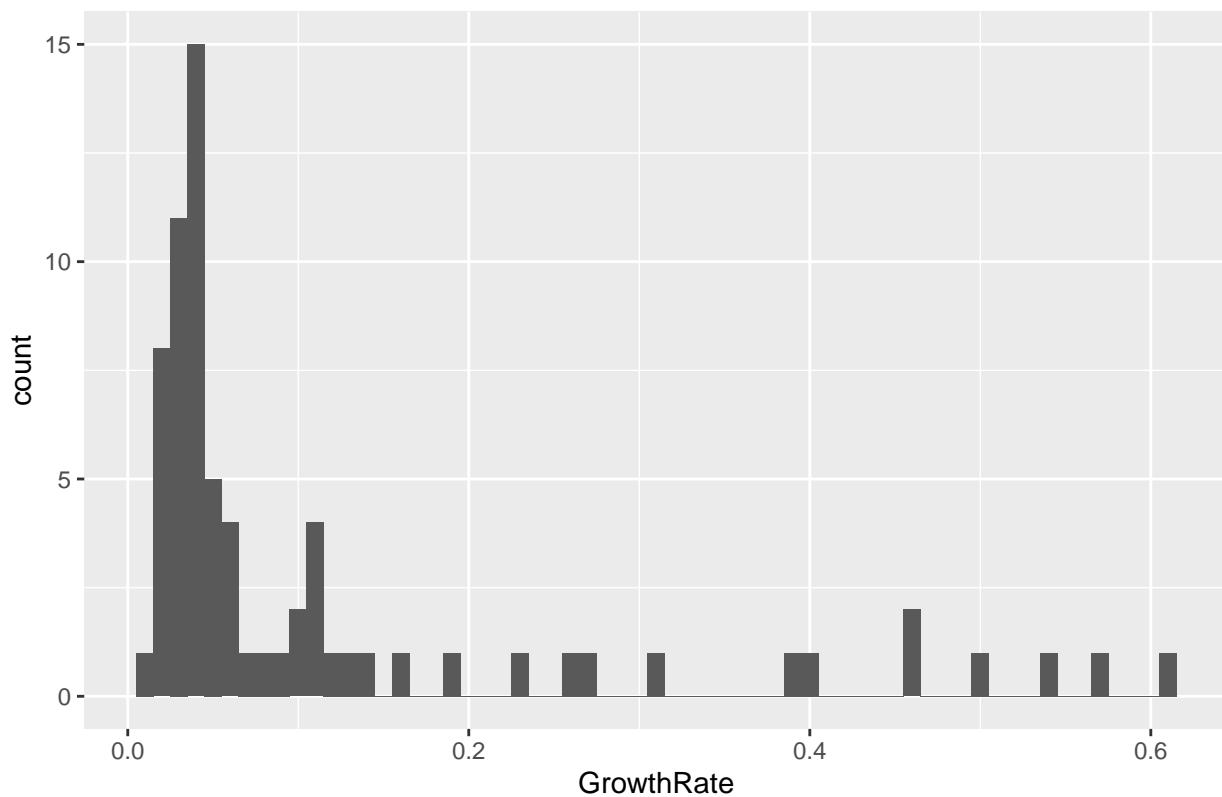
## Arizona: Rate of change in Growth Rate



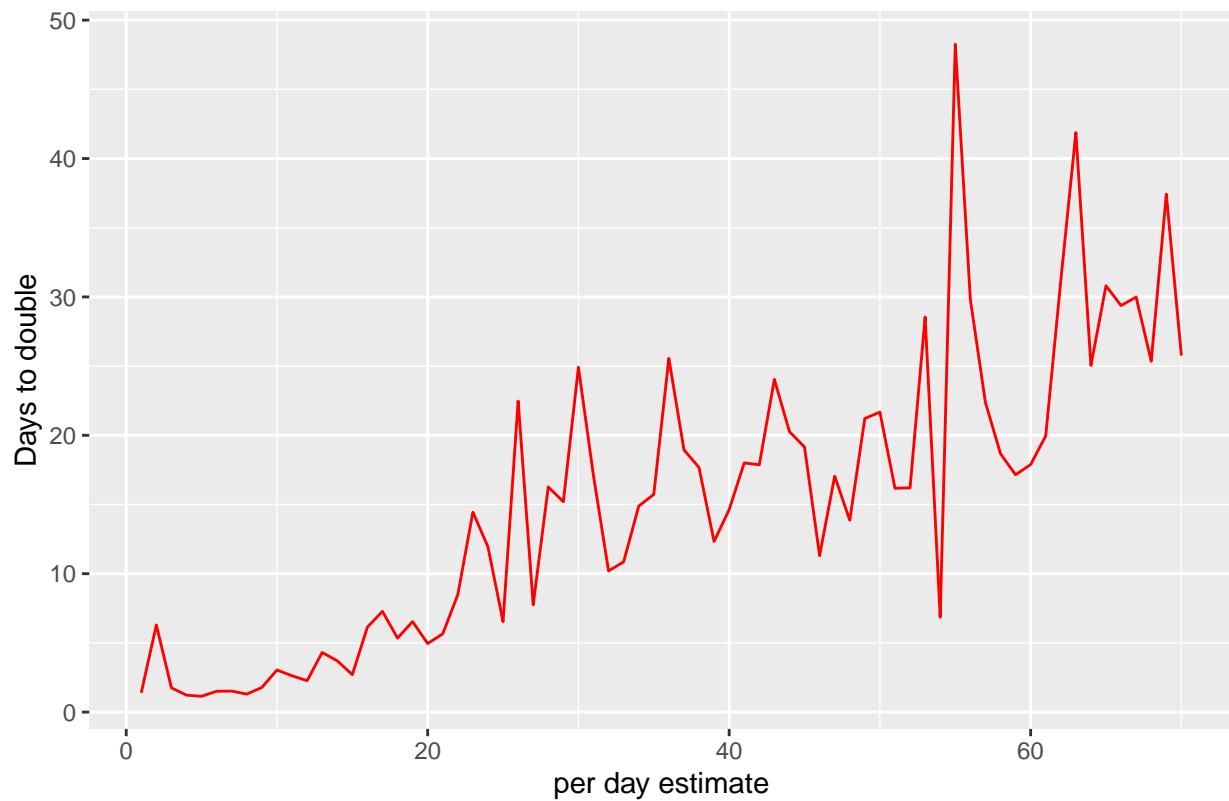
## Arizona: Growth Rate



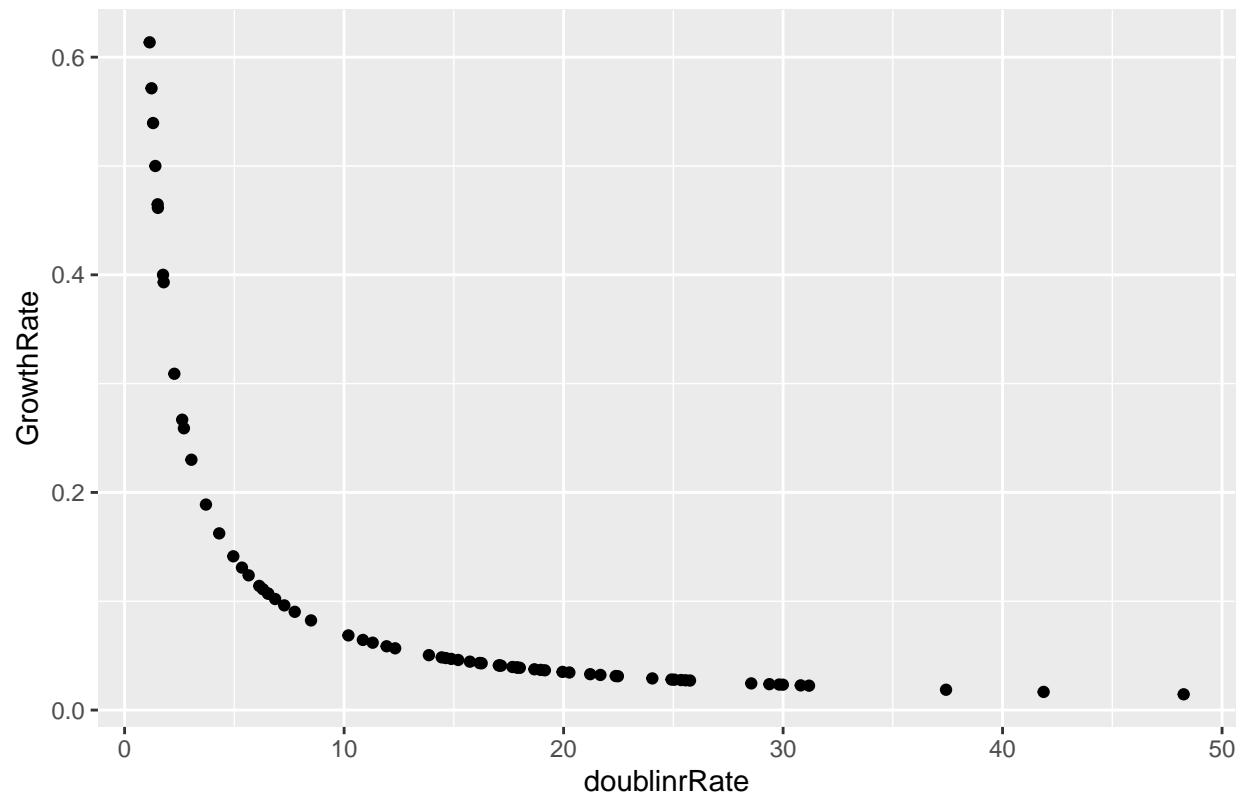
Histogram of GrowthRate



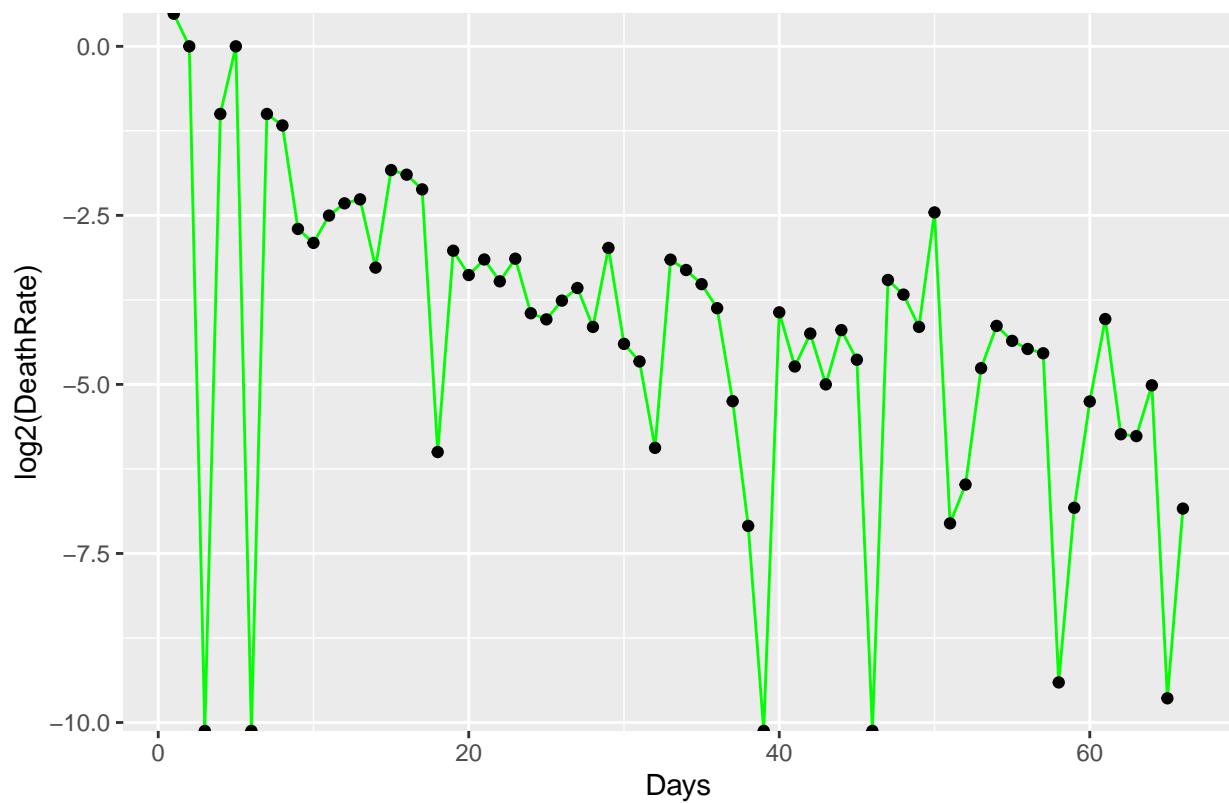
## Doubling Rate in days



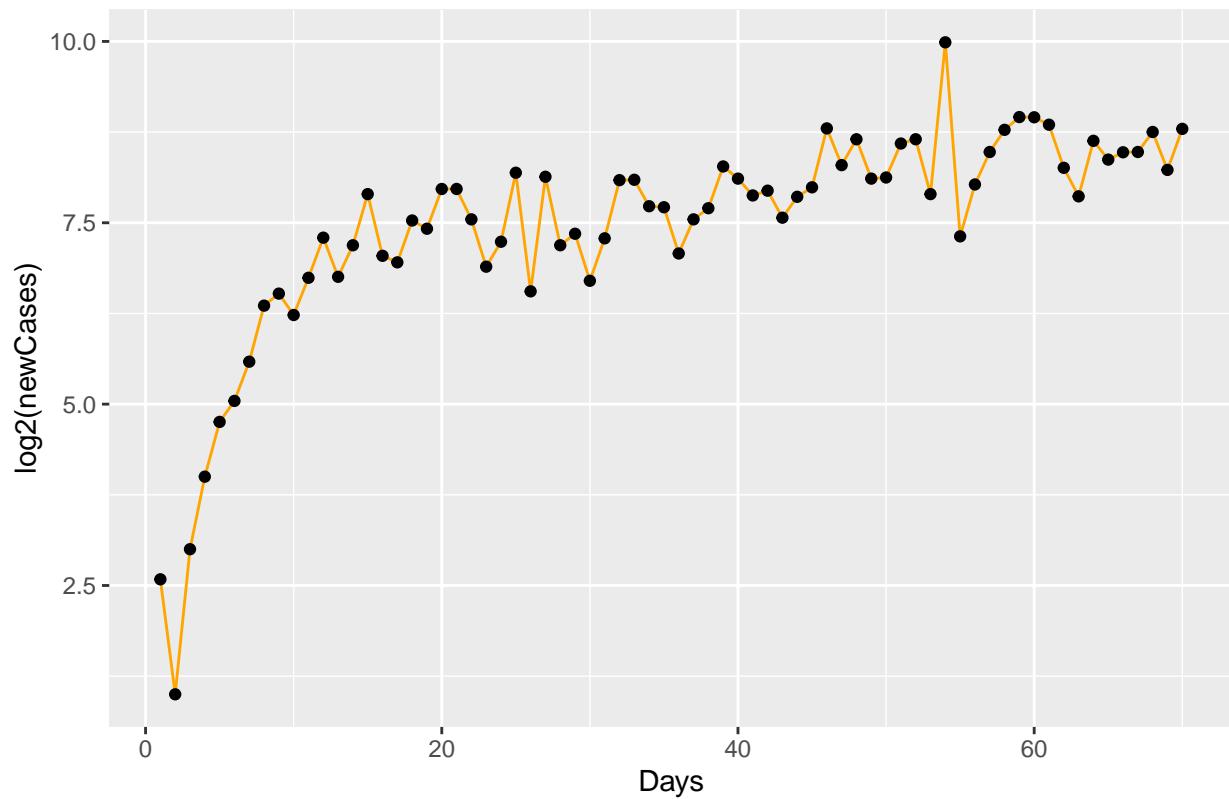
## Doubling Rate vs Growth Rate



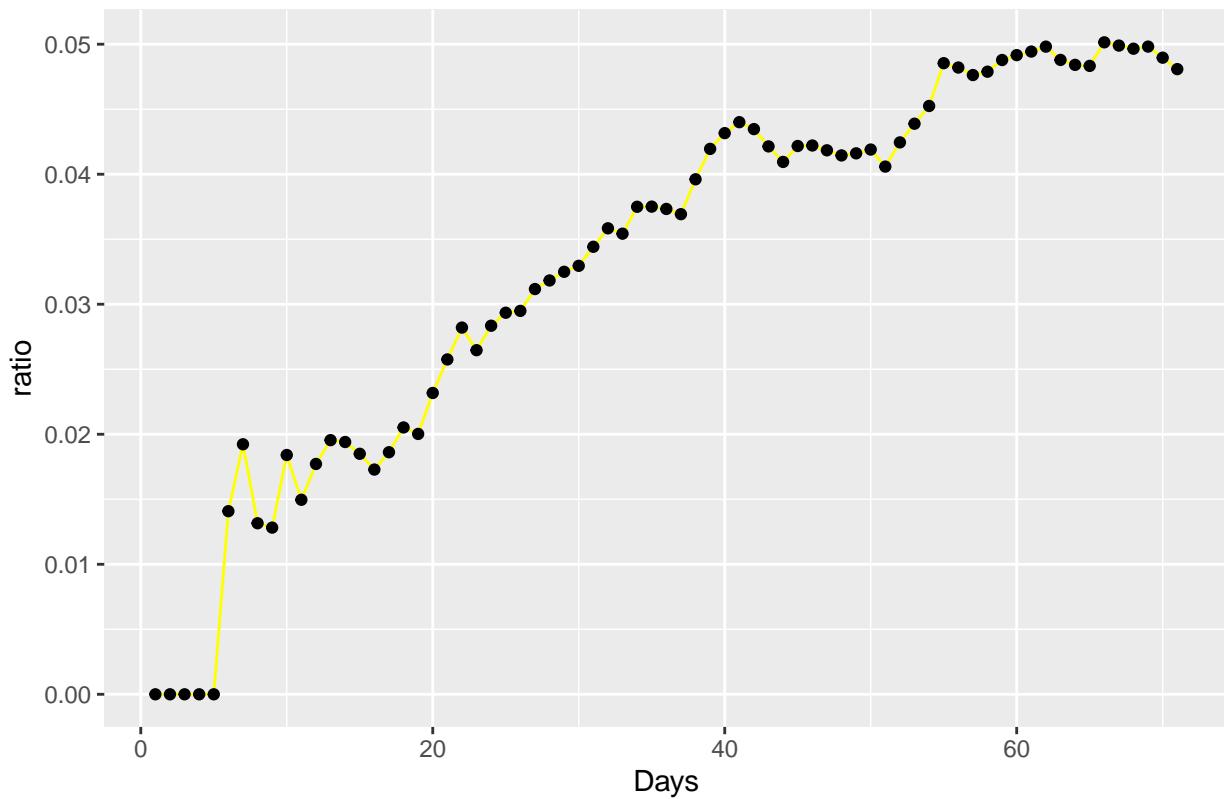
### Arizona: Daily Death Rate



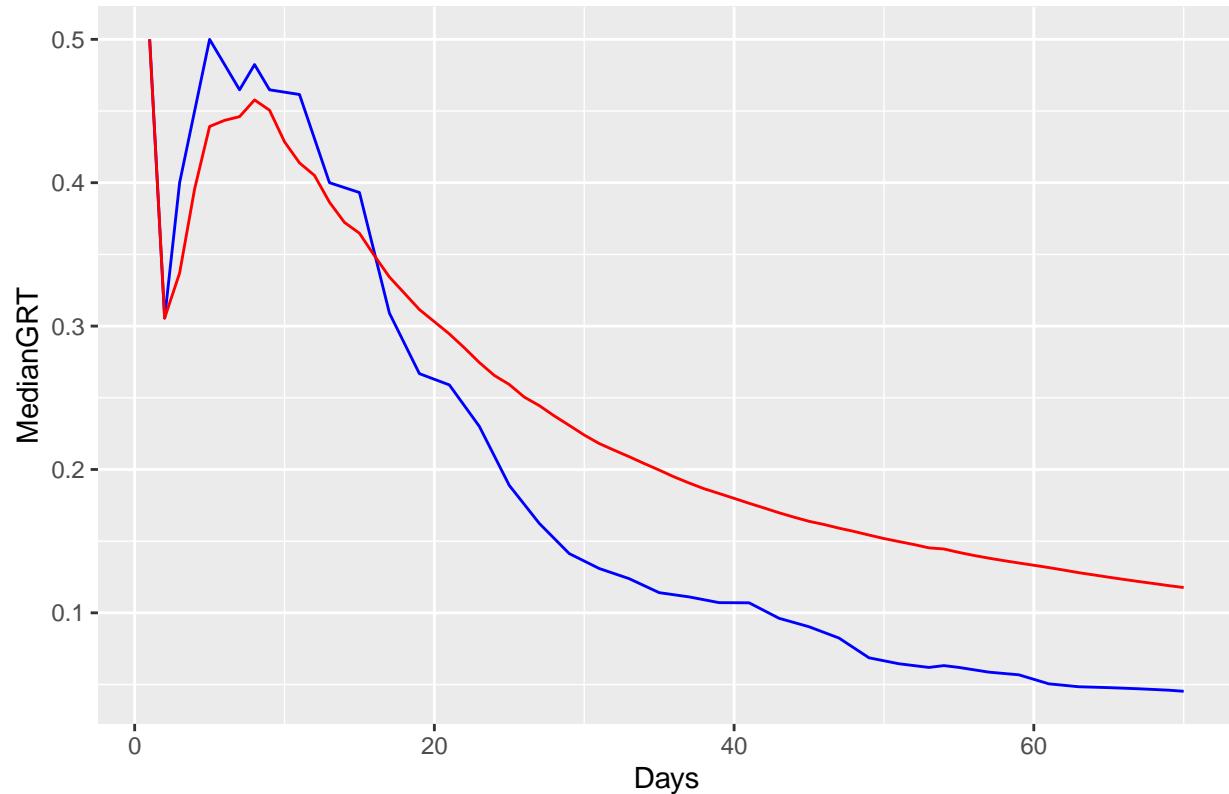
Arizona:newCases(Orange)



### Arizona: TotalDeaths/TotalCases



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

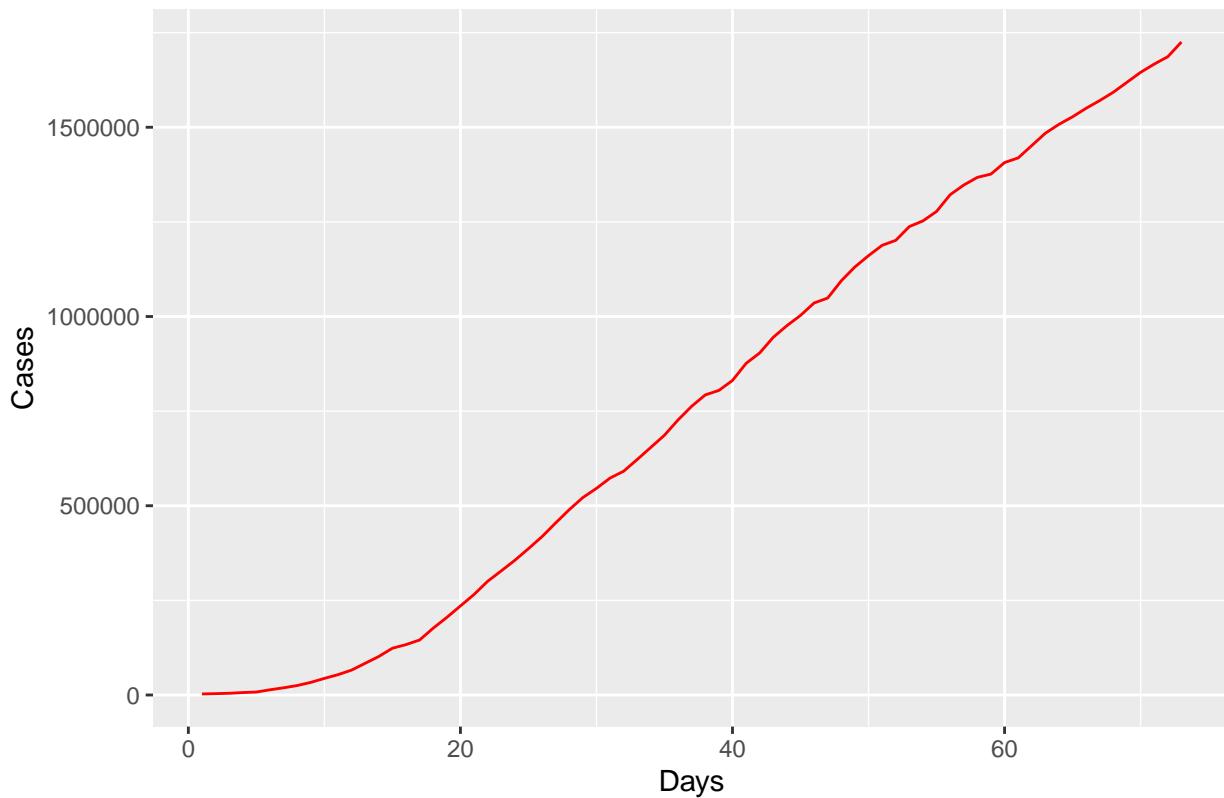


#### Results:

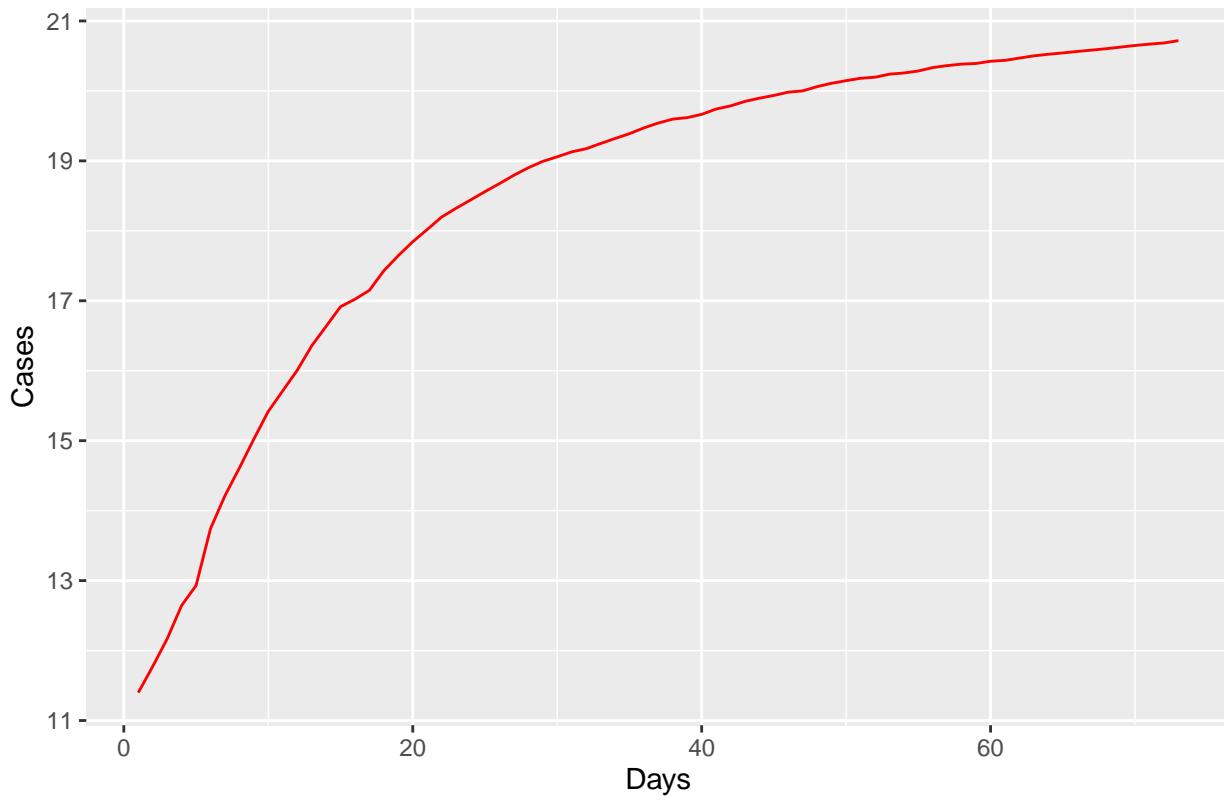
- Tomorrows predicted case number is between  $1.7239065 \times 10^4$  and  $1.8757774 \times 10^4$  cases.
- Current doubling rate is **26 days**
- Mean doubling rate, i.e number of cases doubles every **6 days**.
- Median doubling rate, i.e number of cases doubles every **15 days**.
- Latest Observed Growth Rate **2.7174246** percent.
- Mean Growth Rate: **11.7665149** percent.
- Median Growth Rate: **4.5279581** percent.
- Standard deviation: +/- **15.0926235**.

## US Corona Dashboard

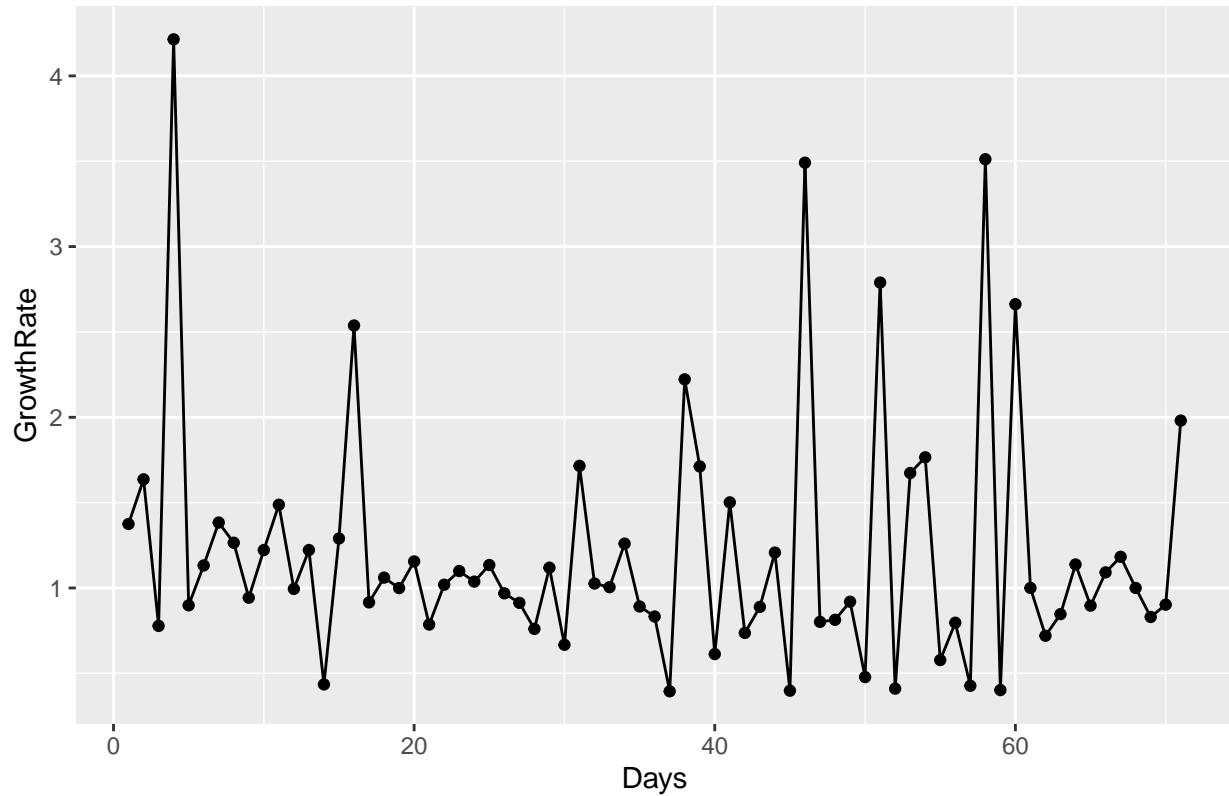
### US: Daily Cases



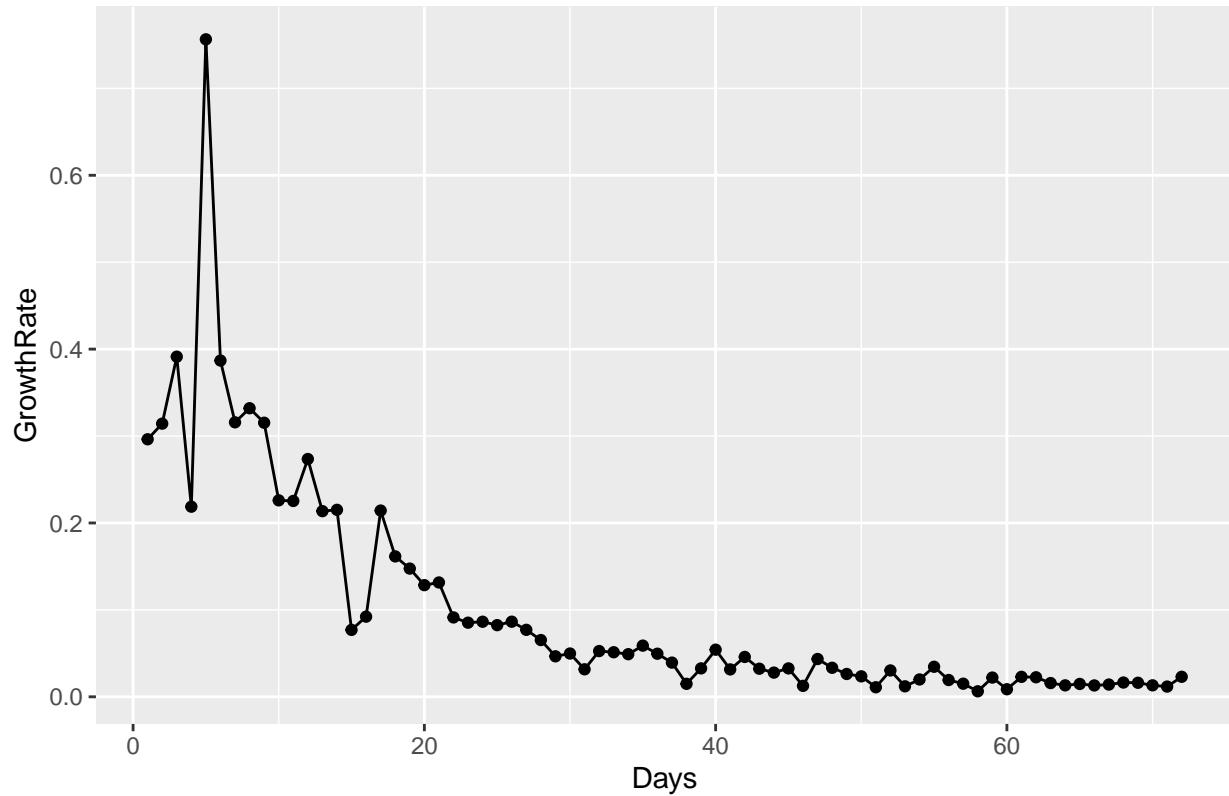
### US: Daily Cases



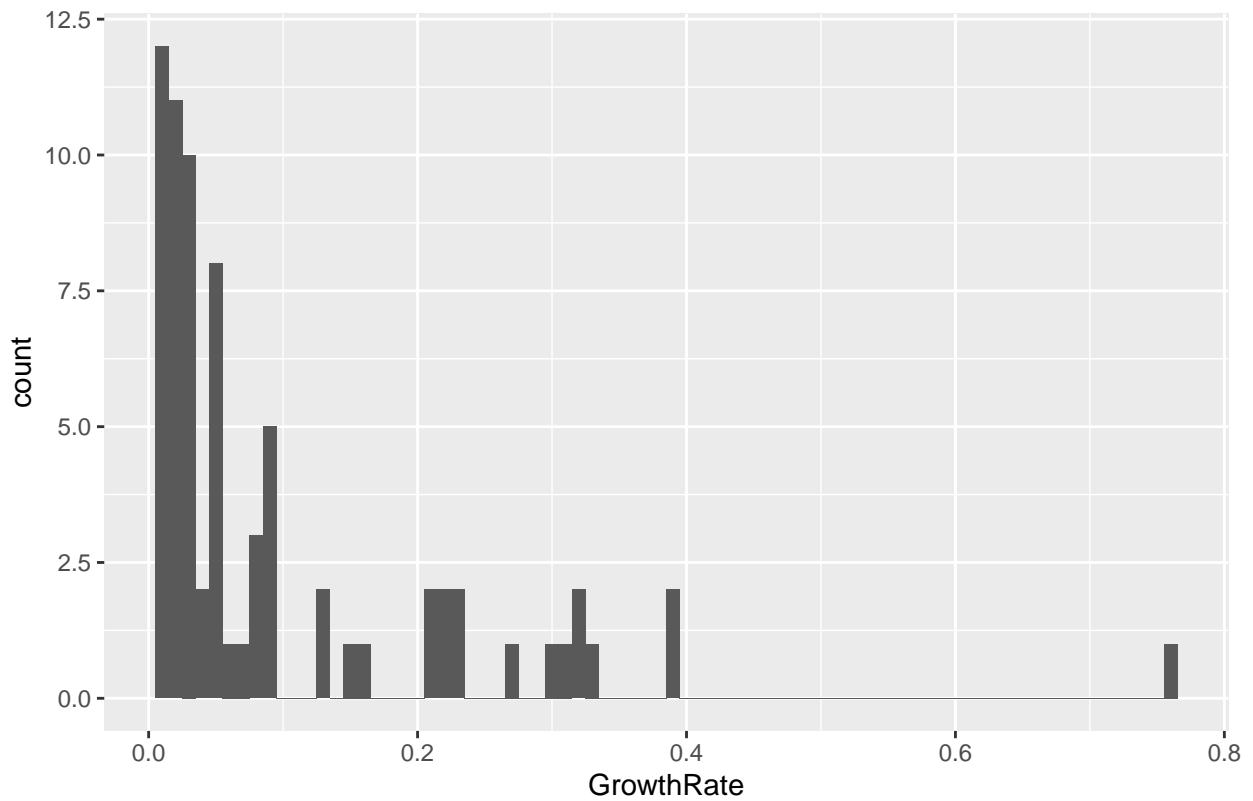
### US: Rate of change in Growth Rate



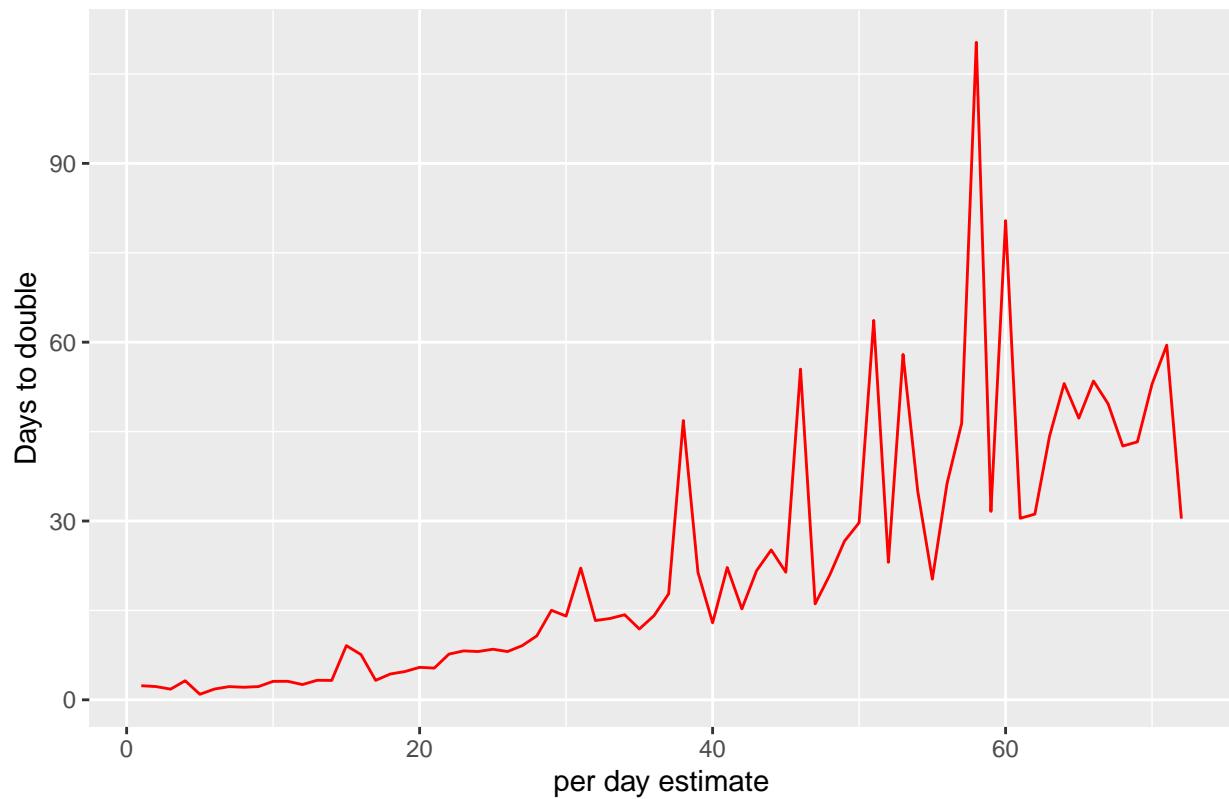
## US: Growth Rate



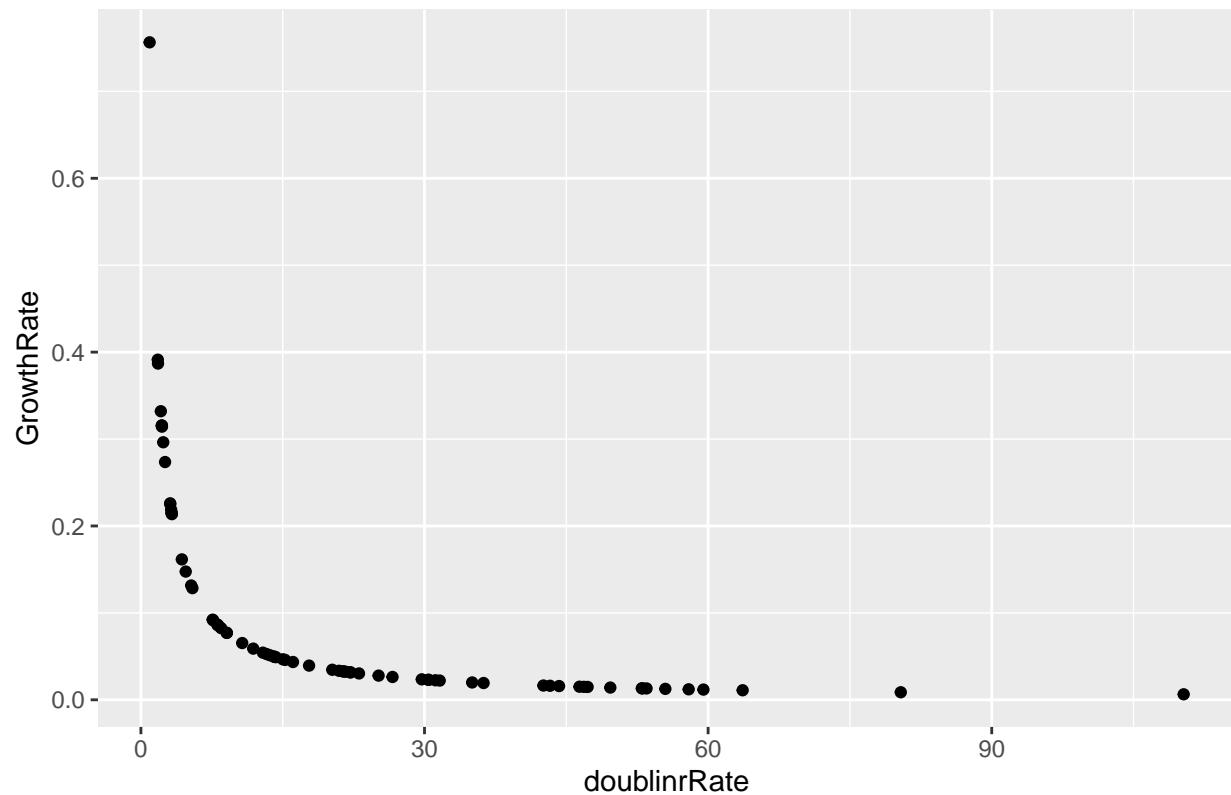
Histogram of GrowthRate



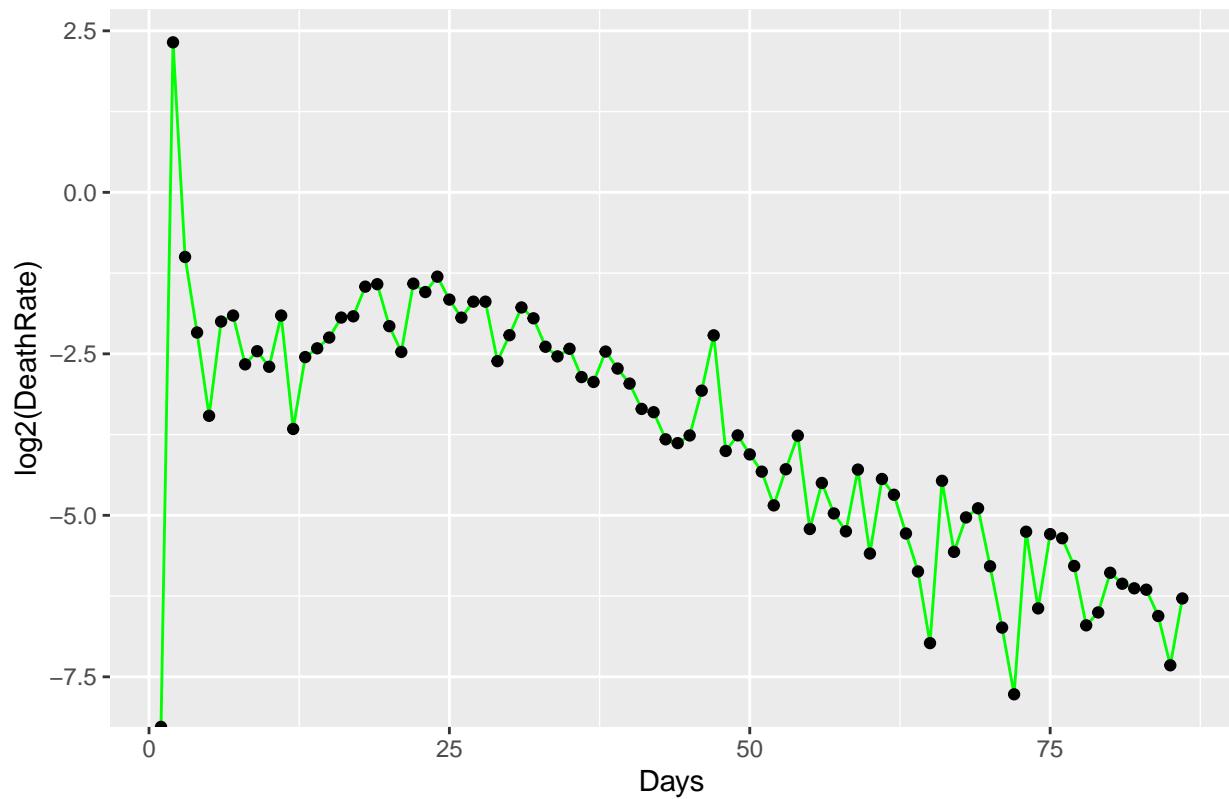
## Doubling Rate in days



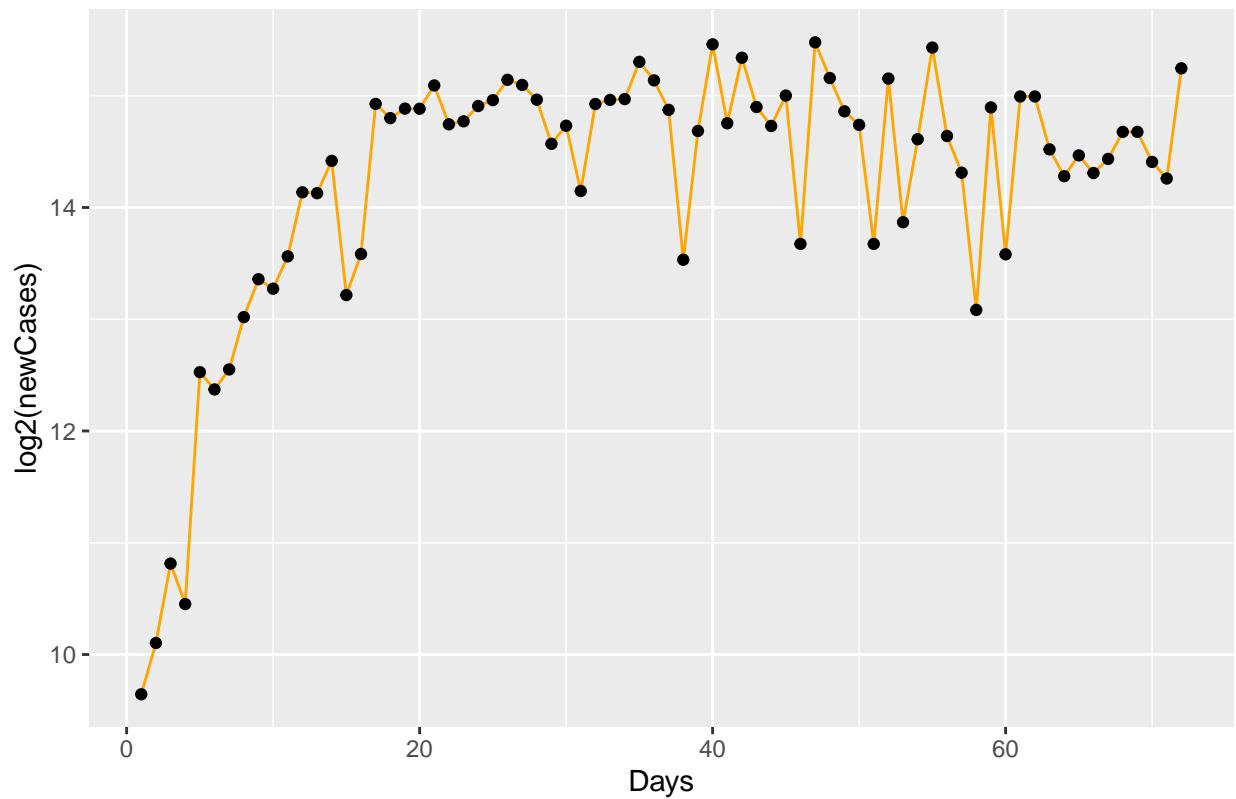
## Doubling Rate vs Growth Rate



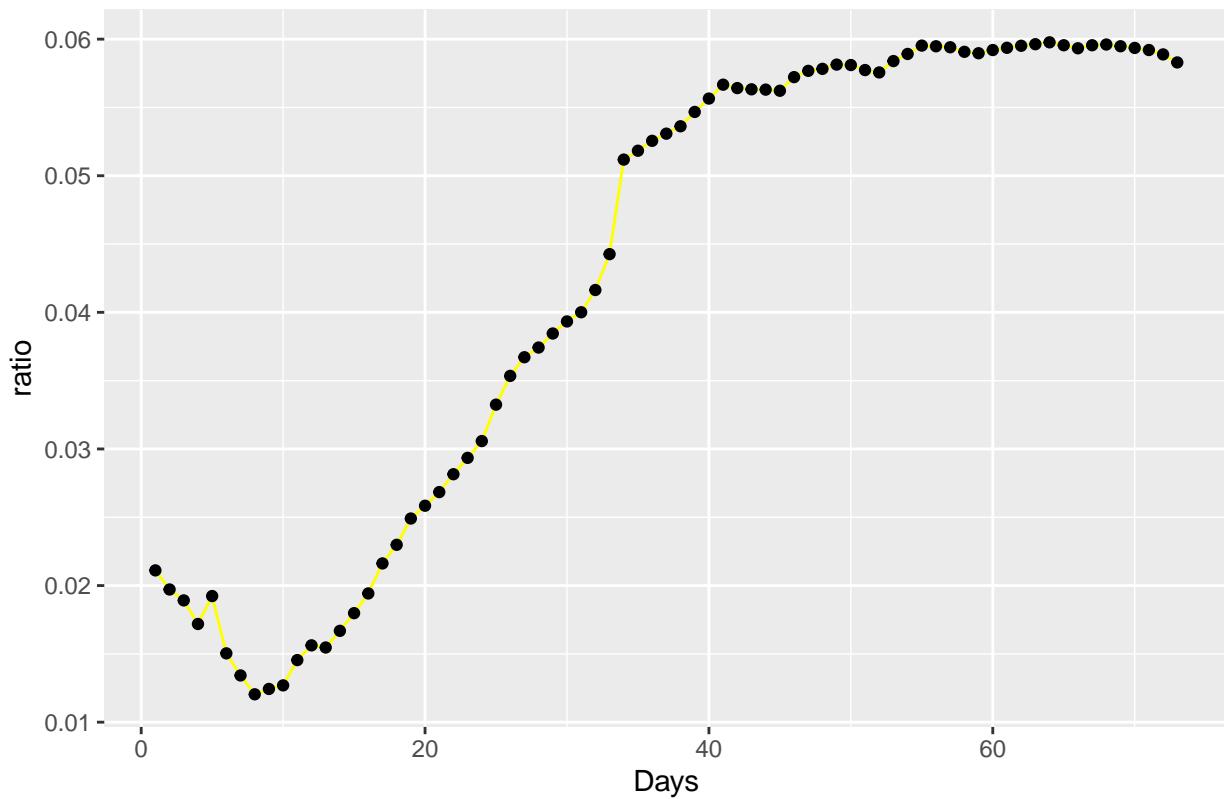
### US: Daily Death Rate



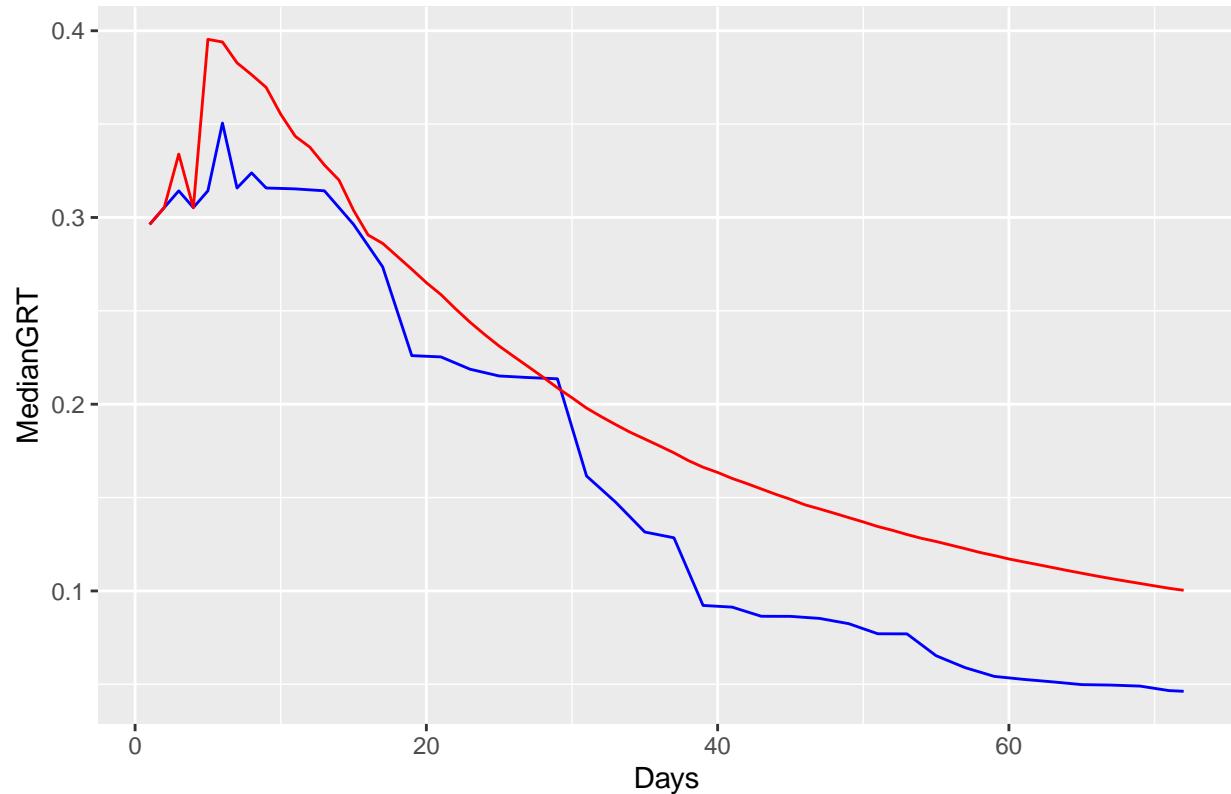
US:newCases(Orange)



### US: TotalDeaths/TotalCases



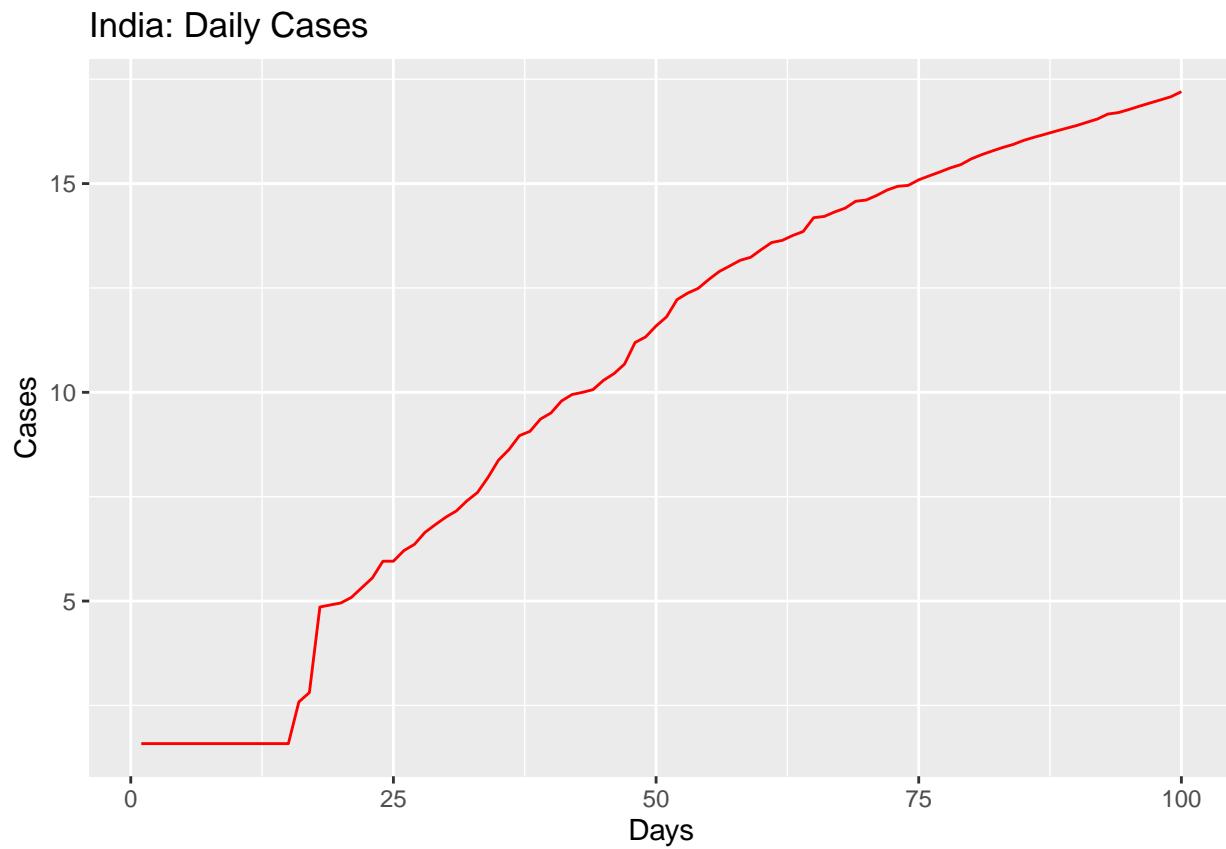
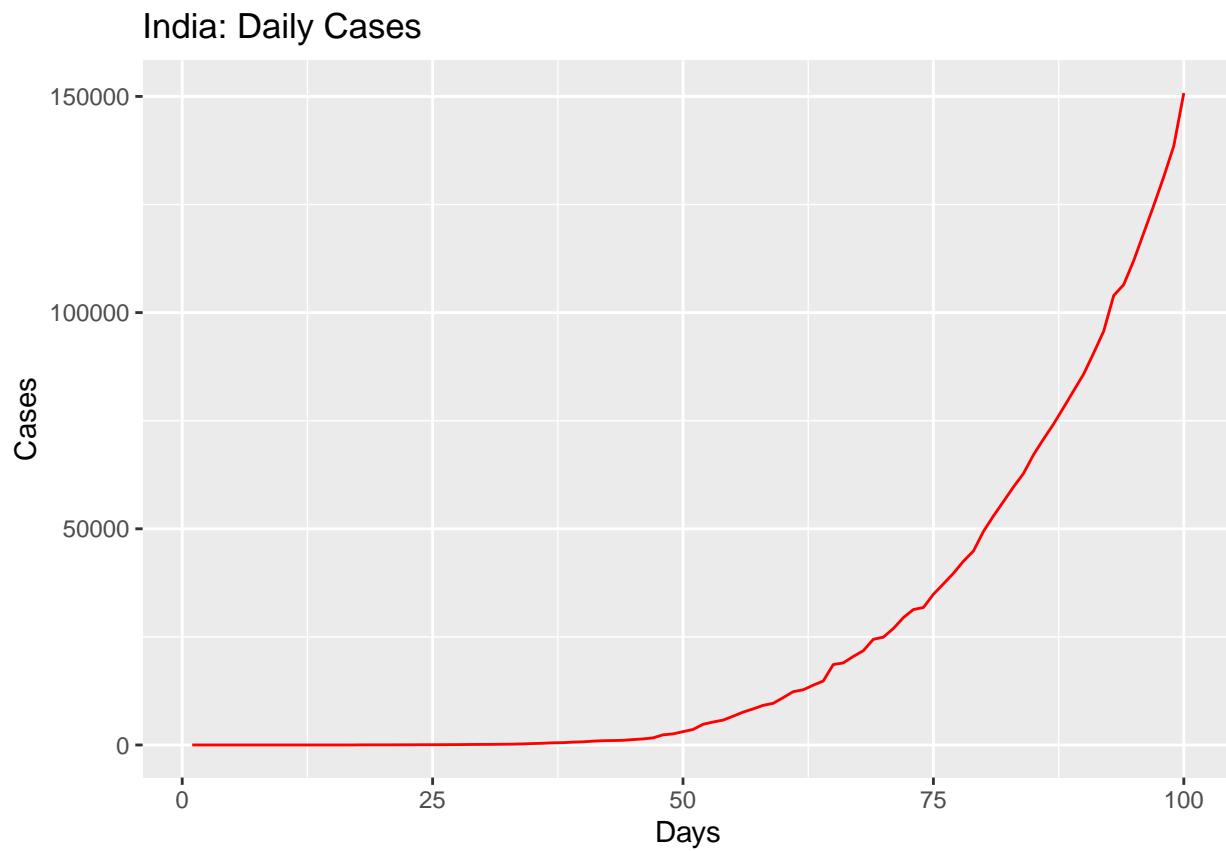
### US Median(BLUE)VsMean(RED) Growth Rate



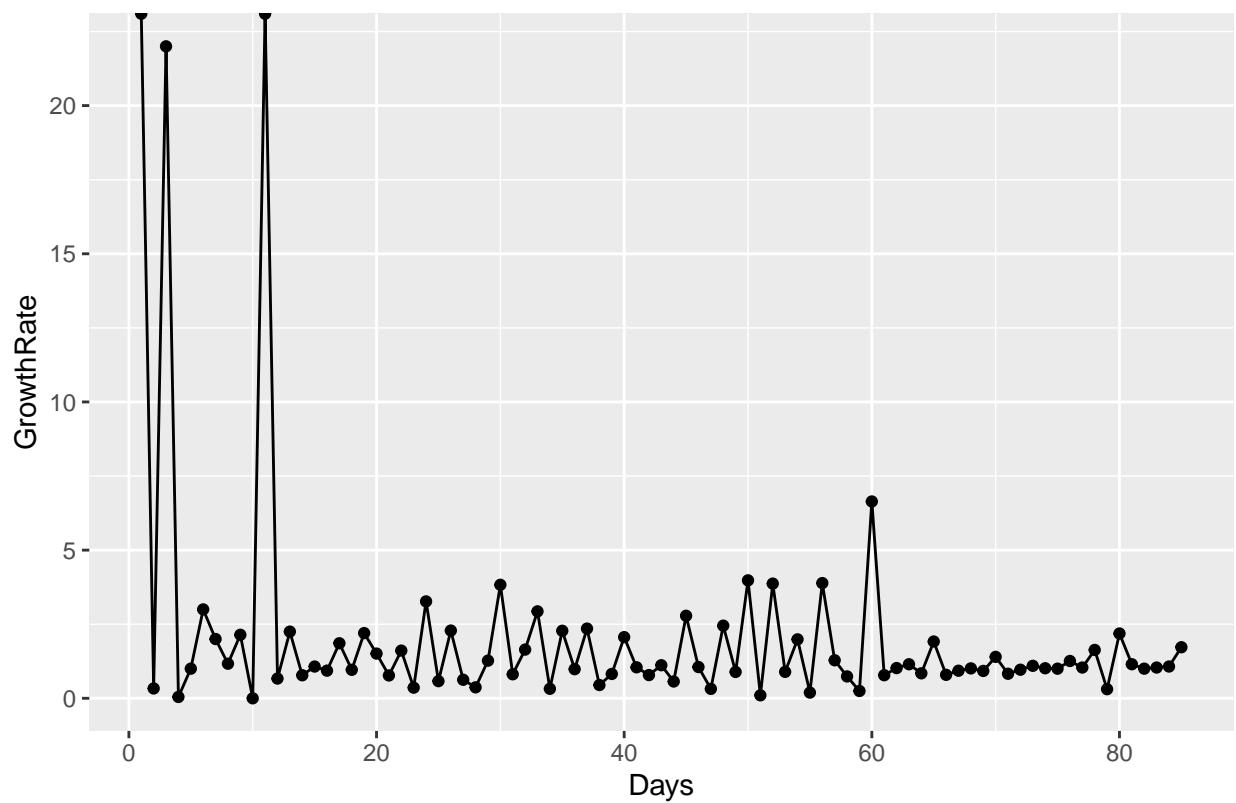
#### Results:

- Tomorrows predicted case number is between  $1.7650085 \times 10^6$  and  $1.8983921 \times 10^6$  cases.
- Current doubling rate is **30 days**
- Mean doubling rate, i.e number of cases doubles every **7 days**.
- Median doubling rate, i.e number of cases doubles every **15 days**.
- Latest Observed Growth Rate **2.3030225** percent.
- Mean Growth Rate: **10.0341754** percent.
- Median Growth Rate: **4.6248099** percent.
- Standard deviation: +/- **12.9731632**.

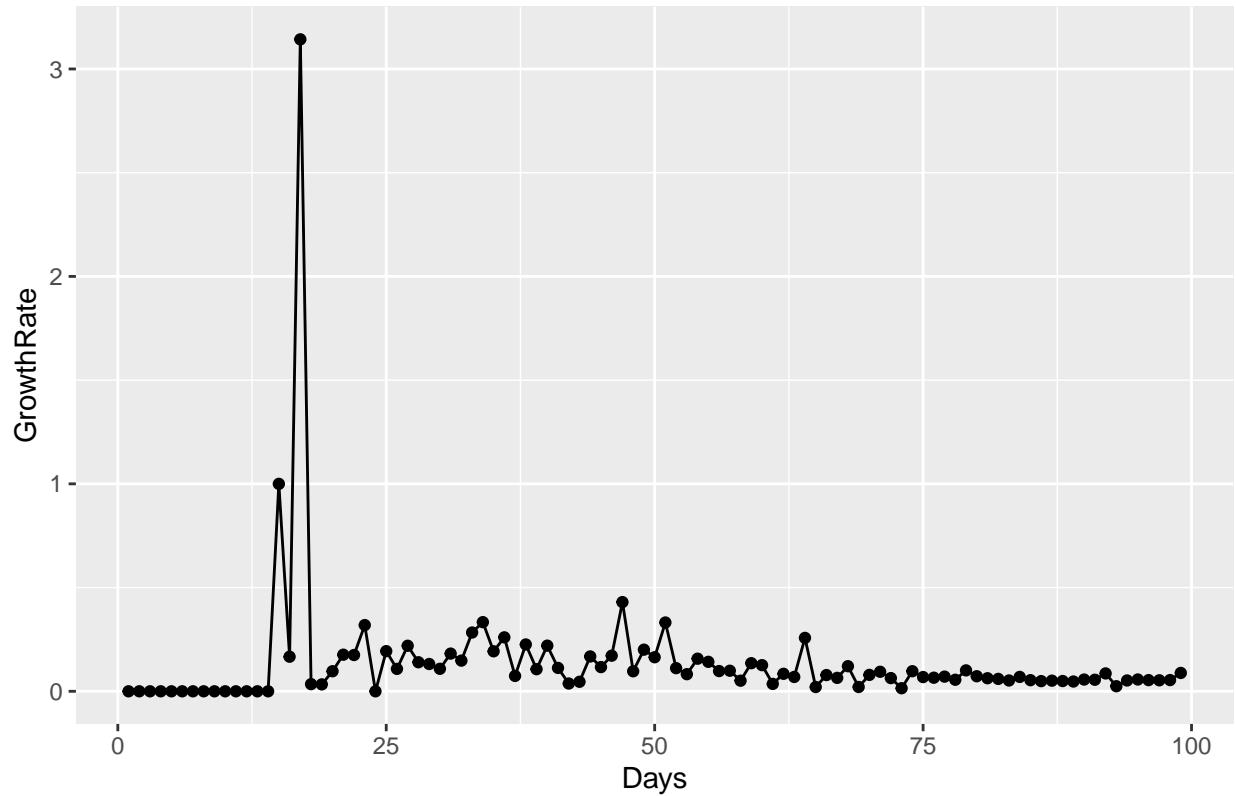
## India Corona Dashboard



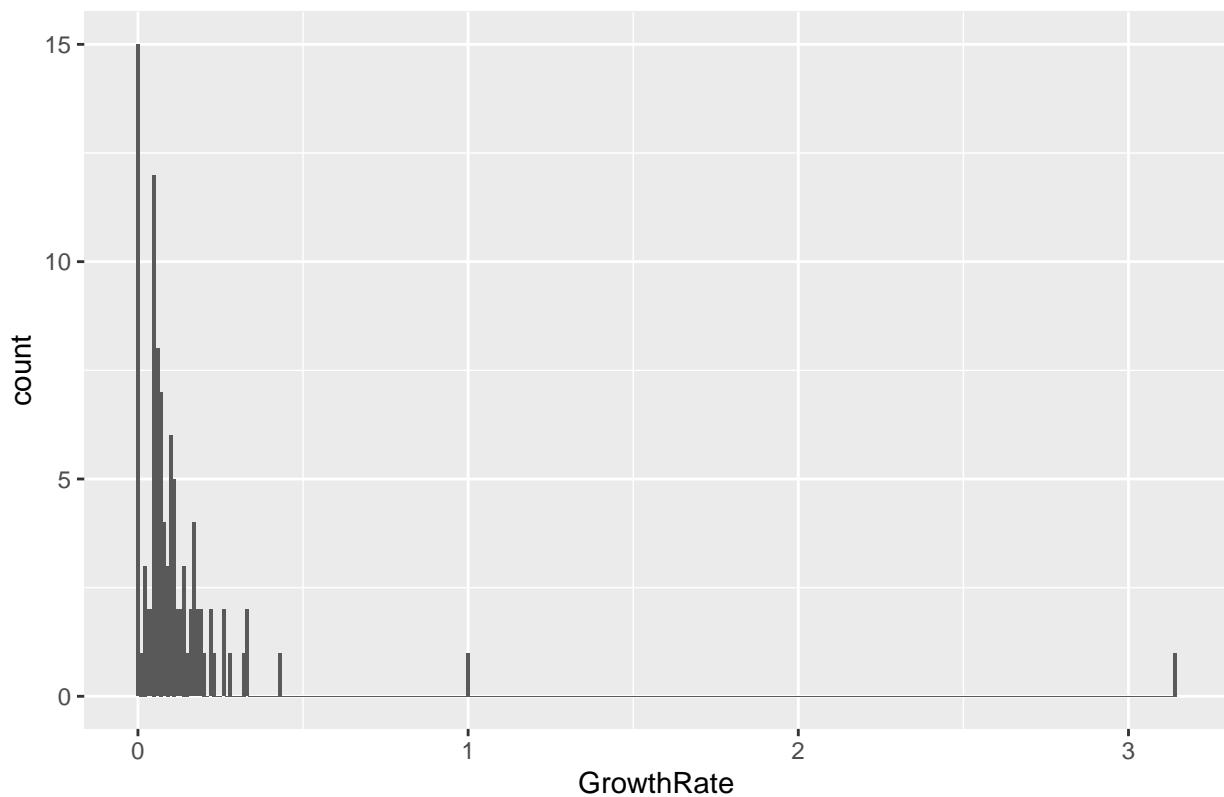
### US: Rate of change in Growth Rate



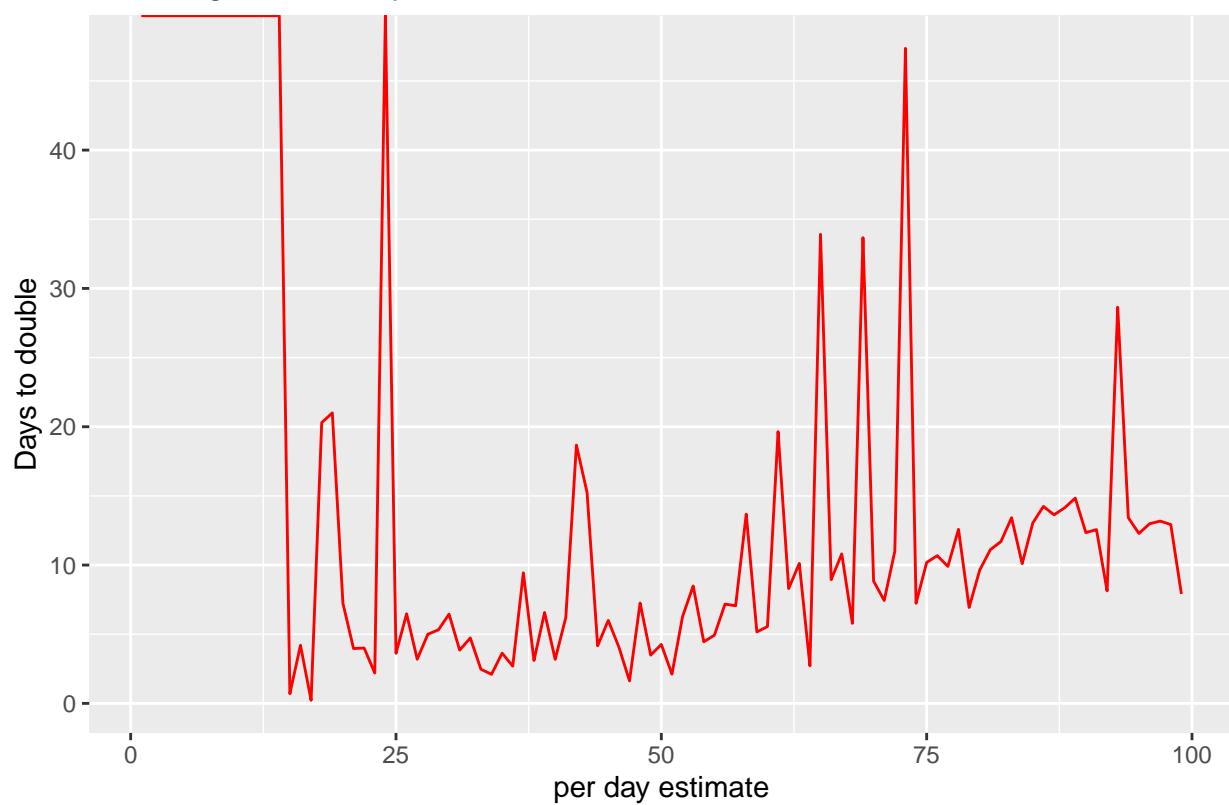
## India: Growth Rate



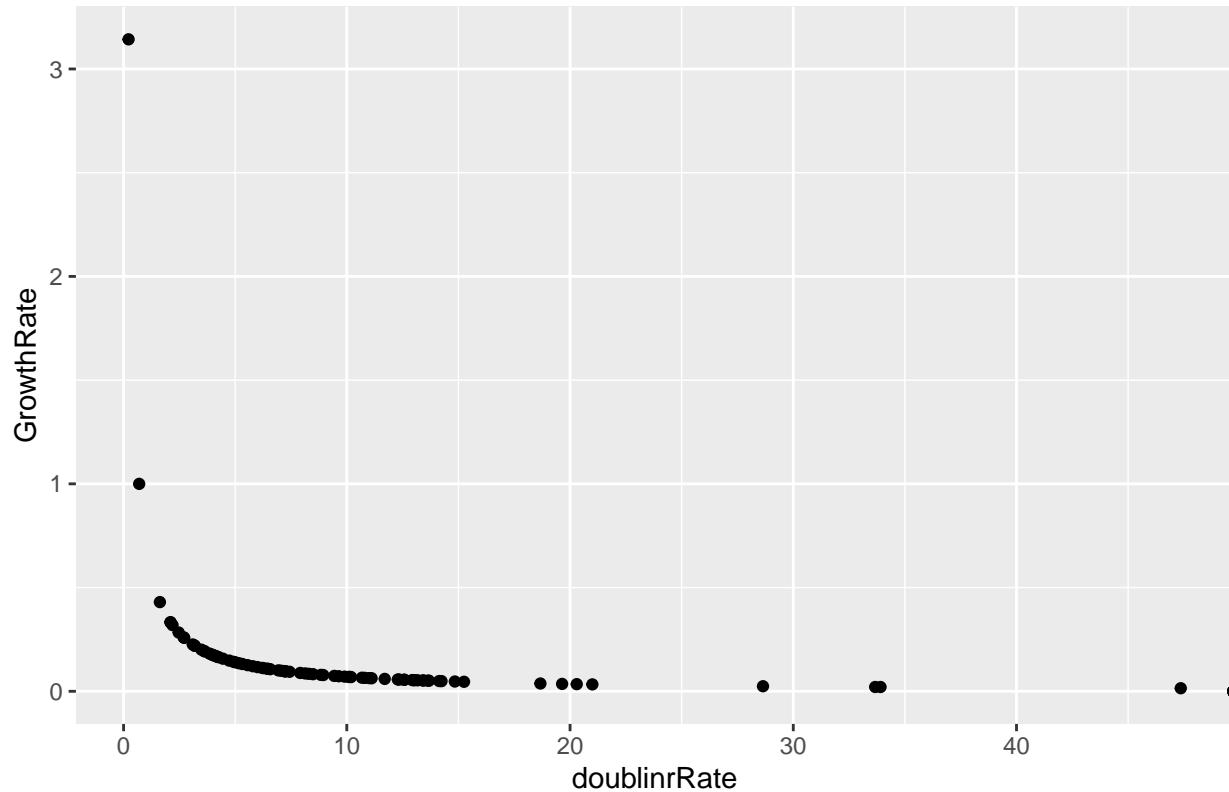
Histogram of GrowthRate



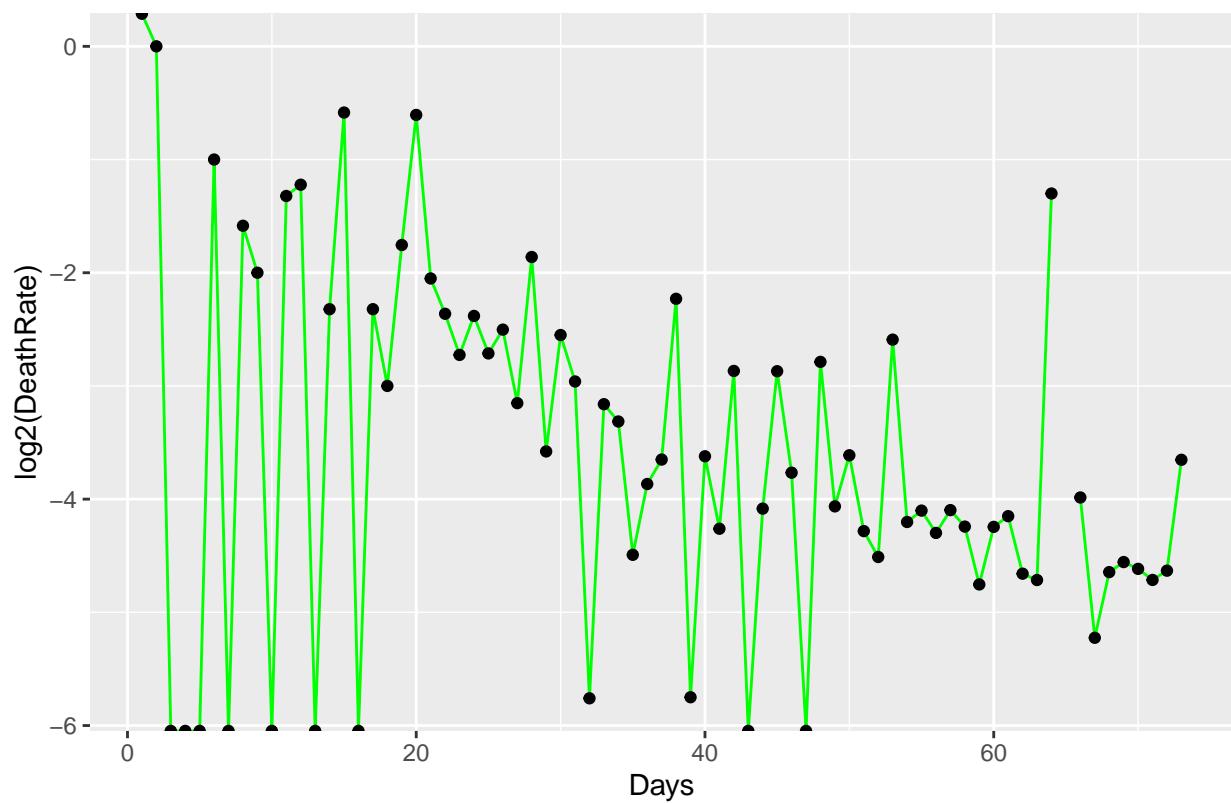
### Doubling Rate in days



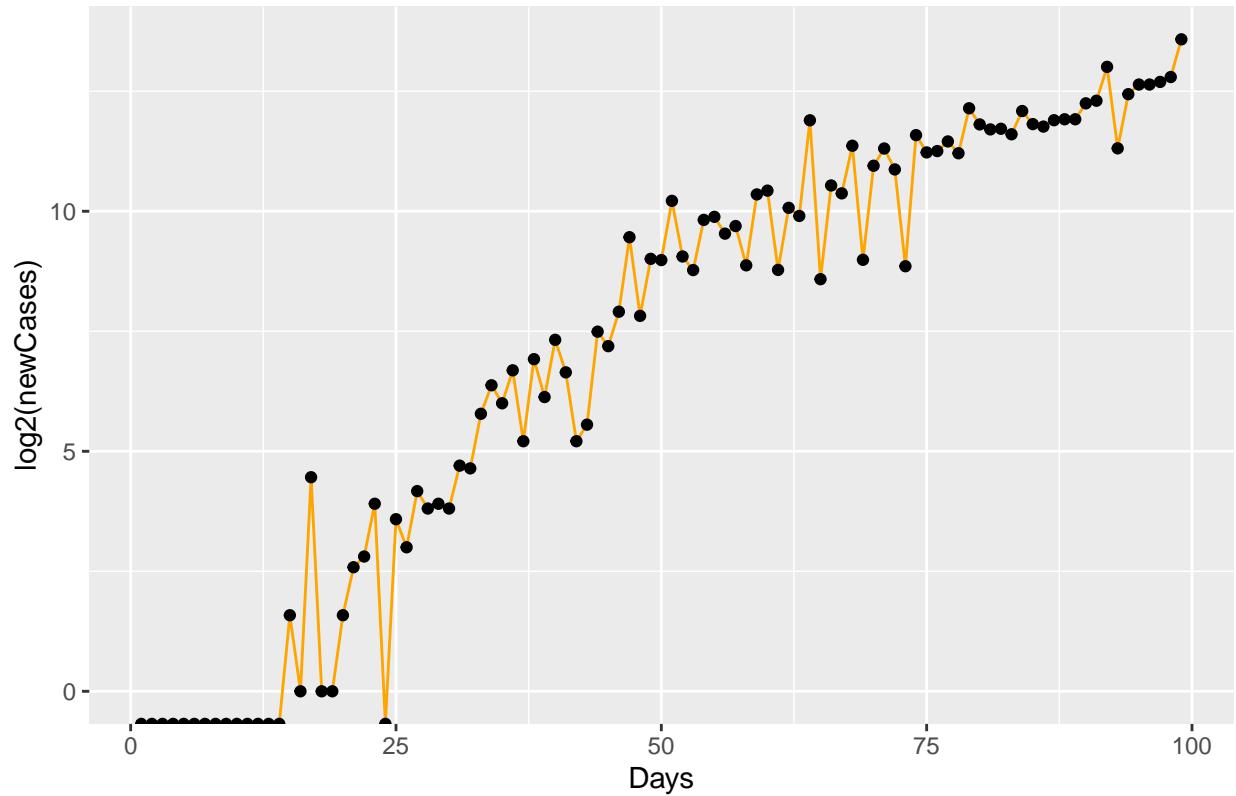
## Doubling Rate vs Growth Rate



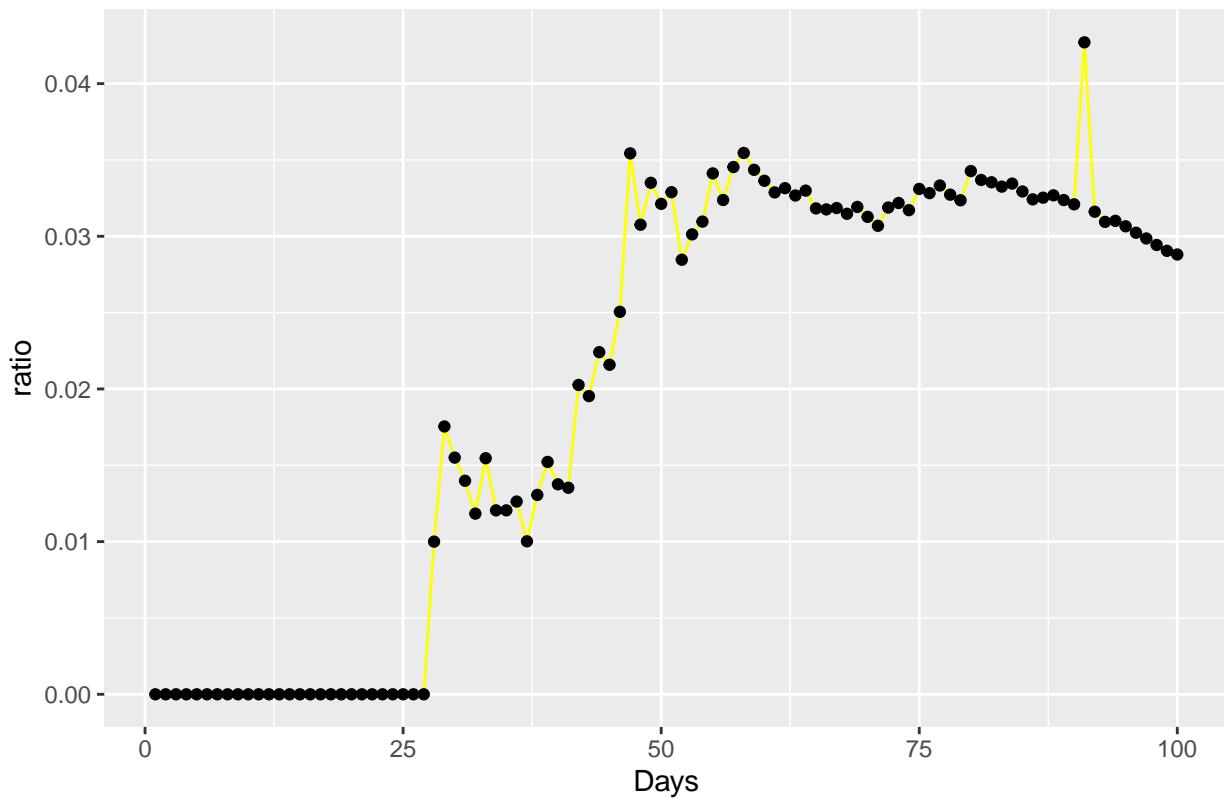
### India: Daily Death Rate



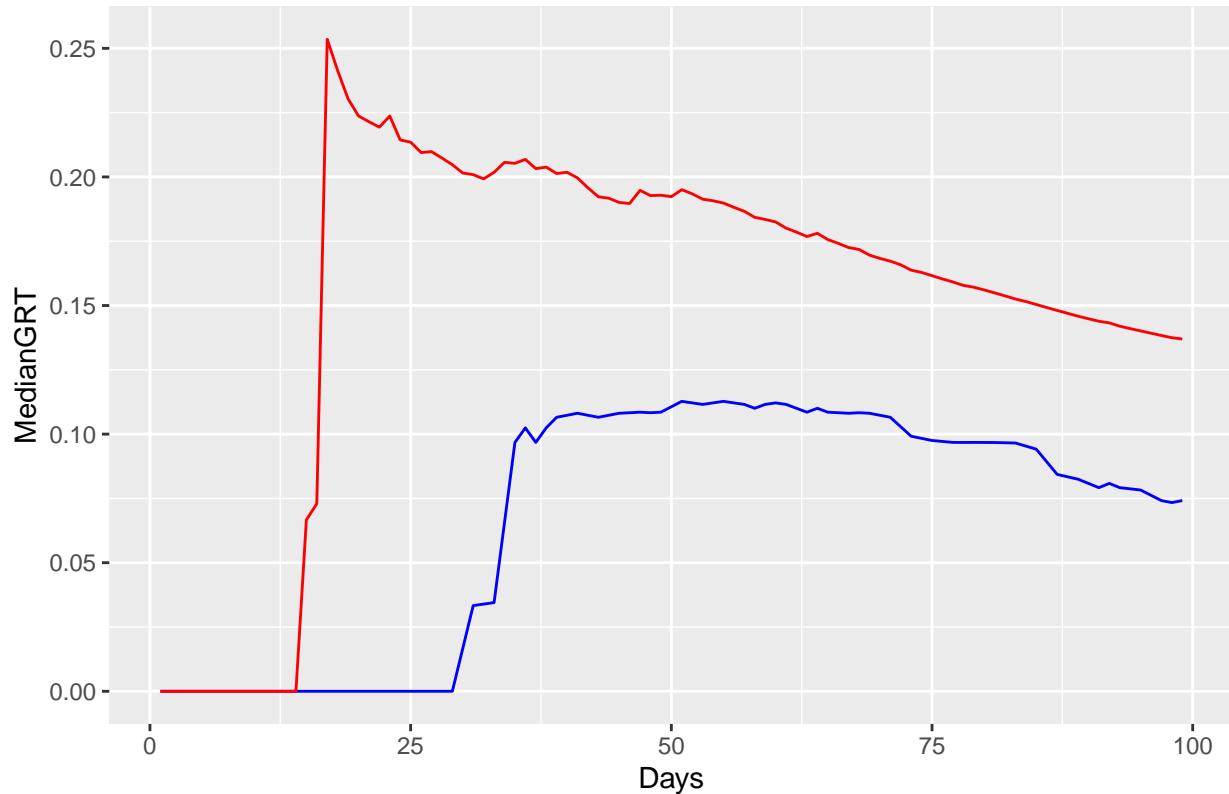
India:newCases(Orange)



### India: TotalDeaths/TotalCases



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



#### Results:

- Tomorrows predicted case number is between  $1.6413444 \times 10^5$  and  $1.7145009 \times 10^5$  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 **8.8475198** percent.
- Mean Growth Rate: **13.6989725** percent.
- Median Growth Rate: **7.4148297** percent.
- Standard deviation: +/- **32.9606992**.