

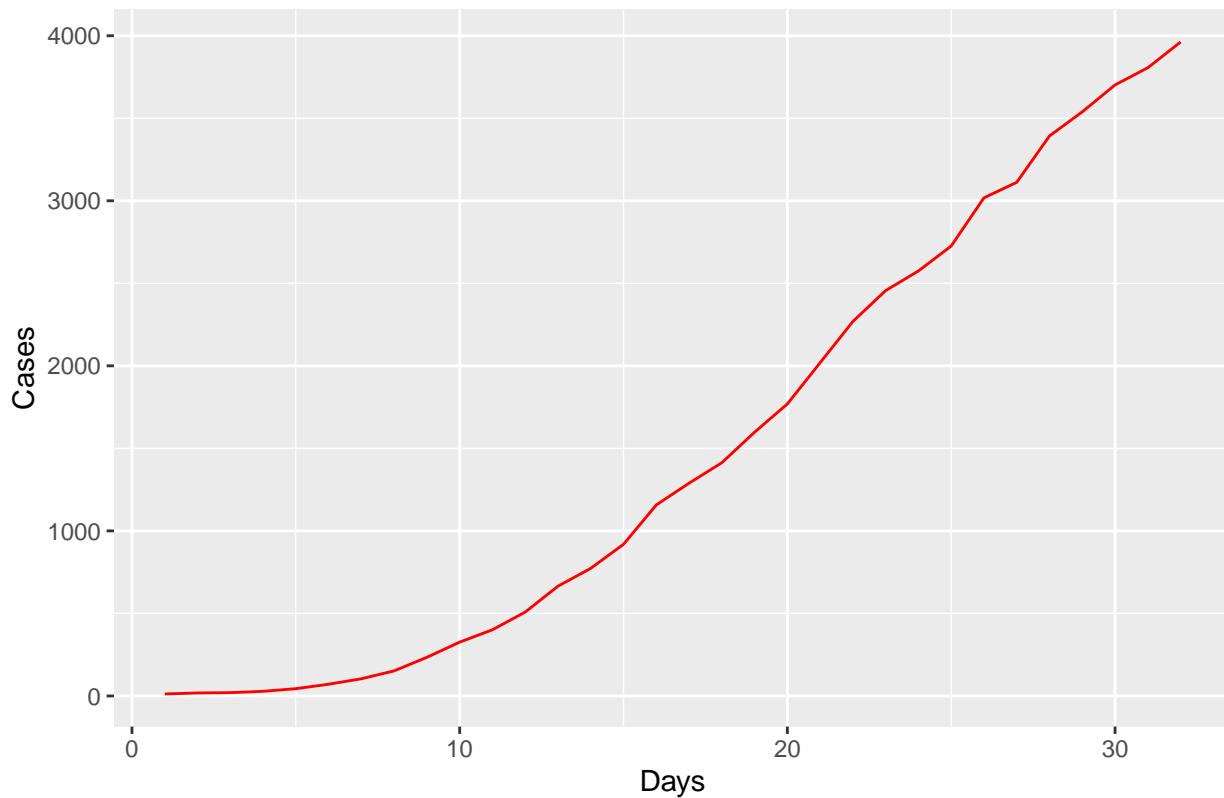
# Arizona/US/India Corona Trends- 15th April 2020 with tomorrow's prediction

Whitchurch Muthumani

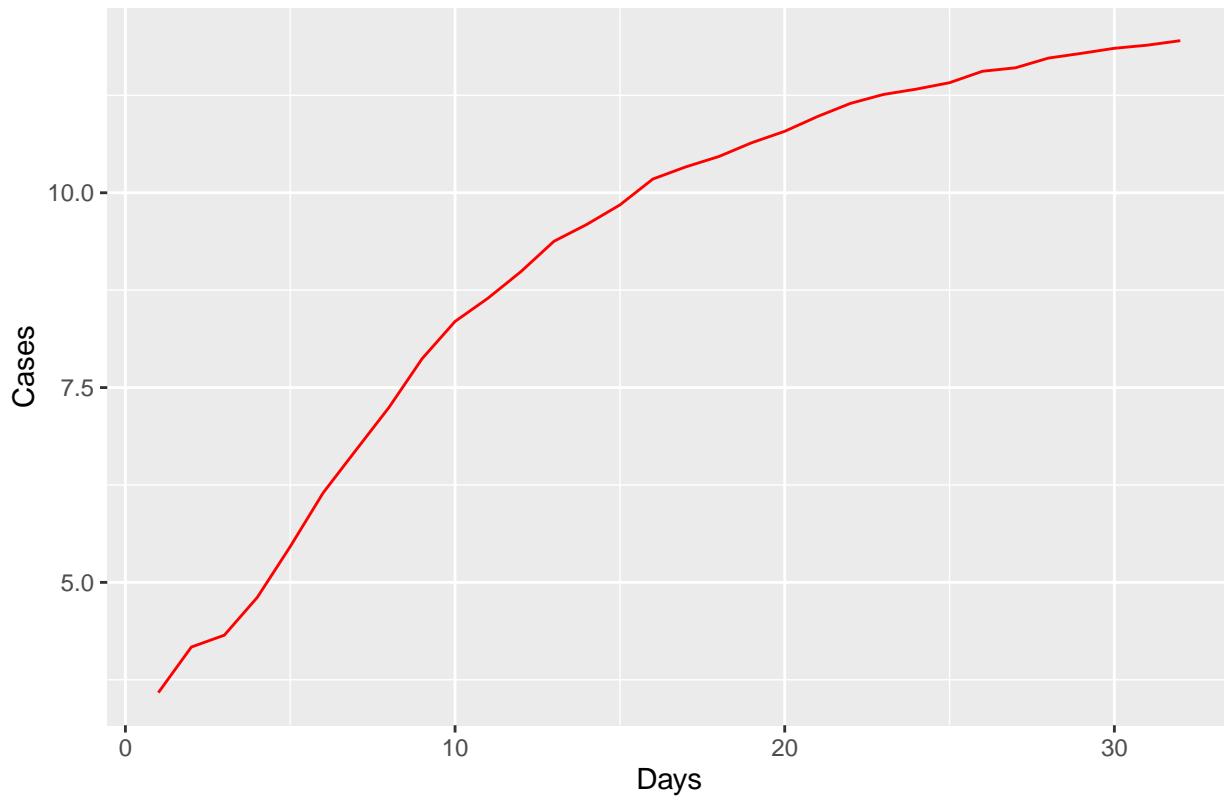
4/15/2020

## Arizona Corona Dashboard

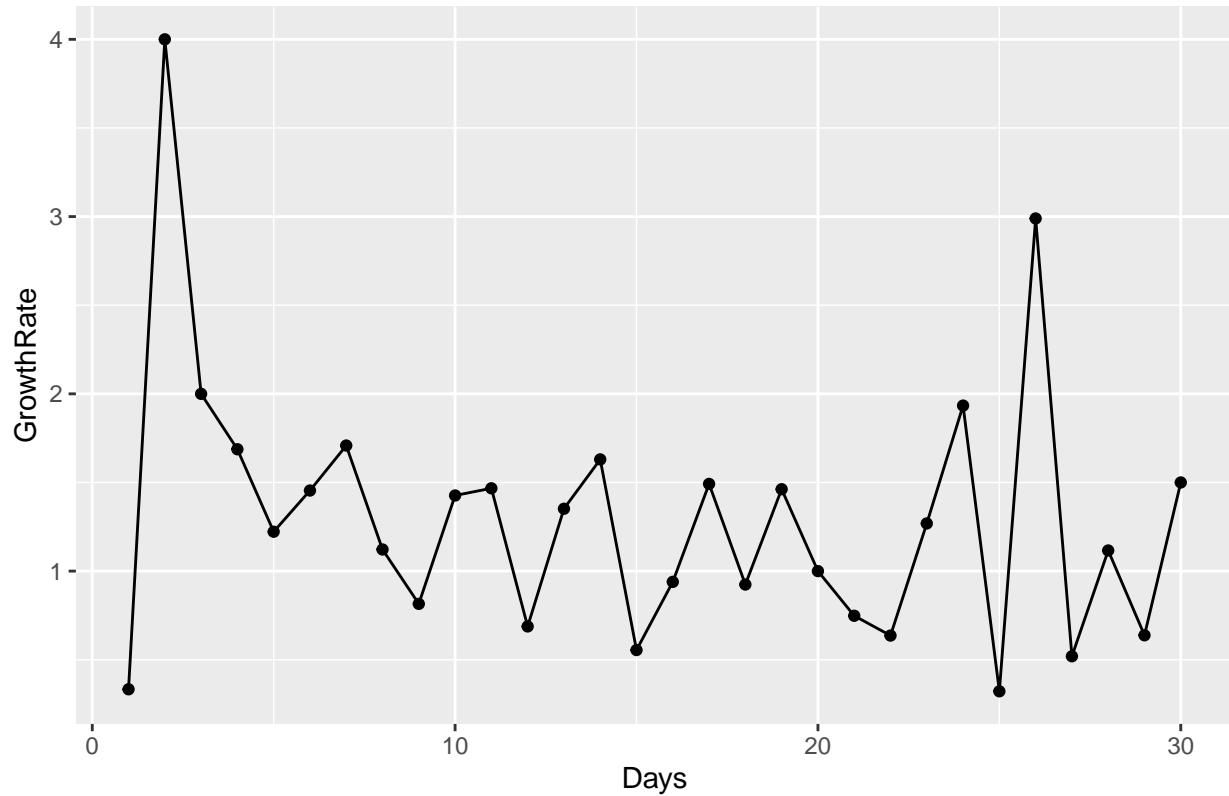
### Arizona: Daily Cases



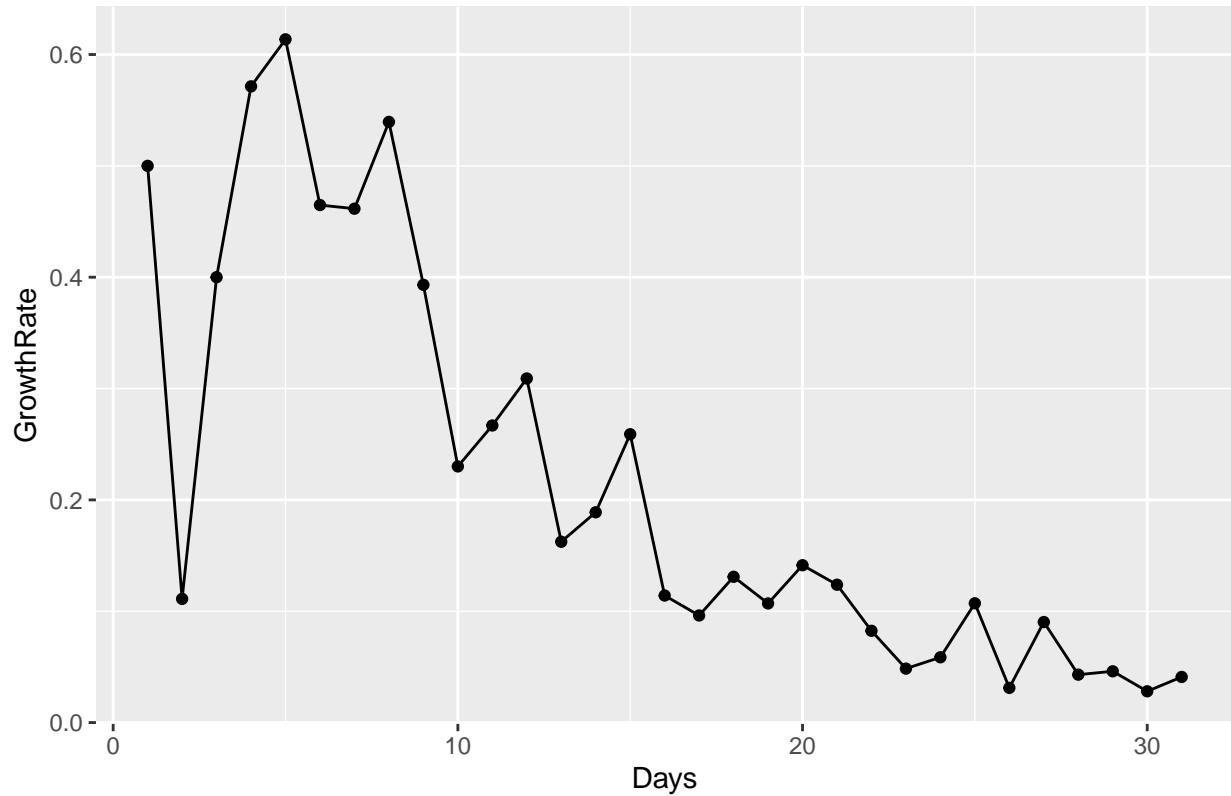
### Arizona: Daily Cases



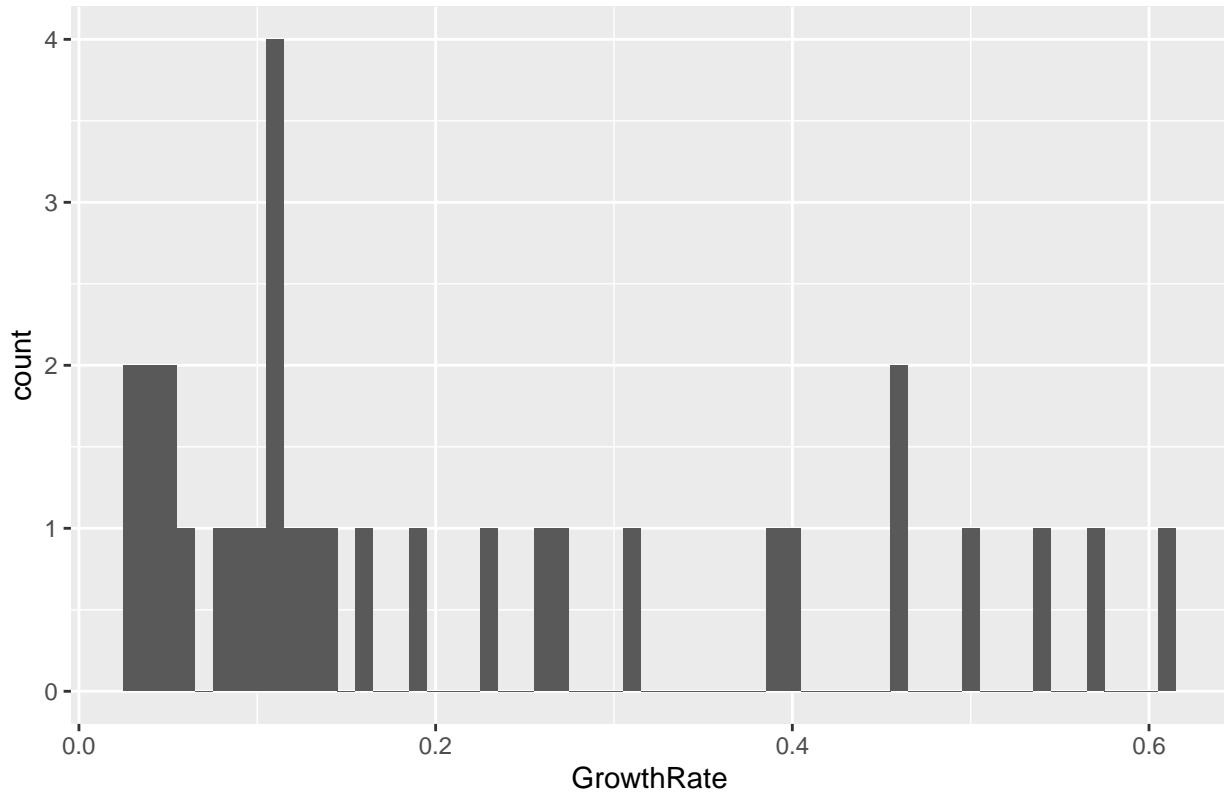
### Arizona: Rate of change in Growth Rate



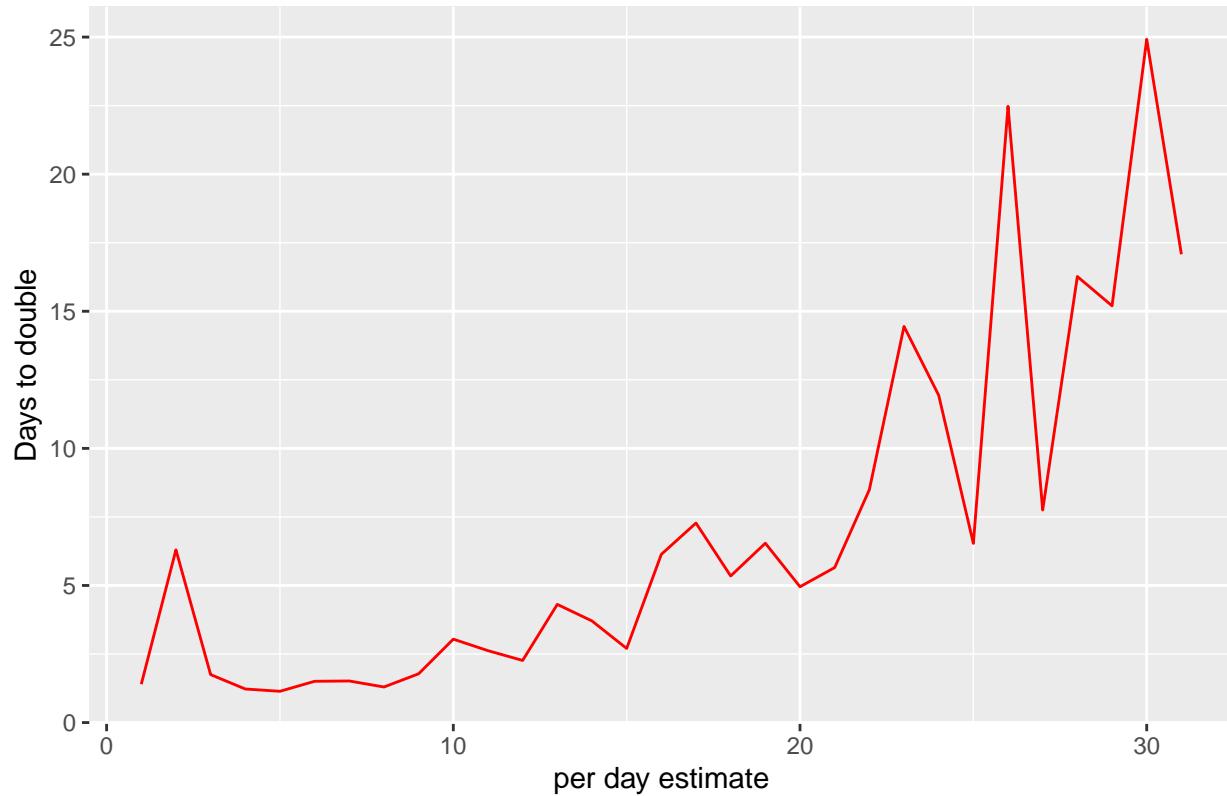
## Arizona: Growth Rate



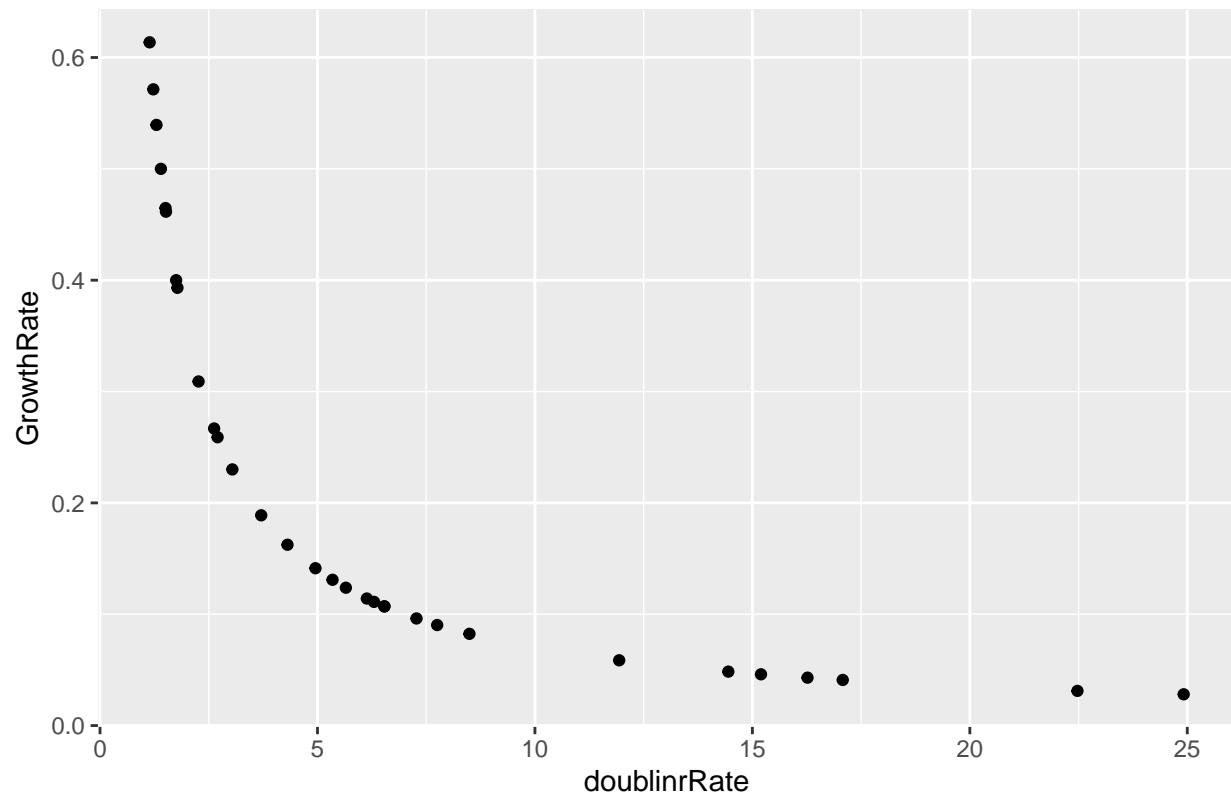
Histogram of GrowthRate



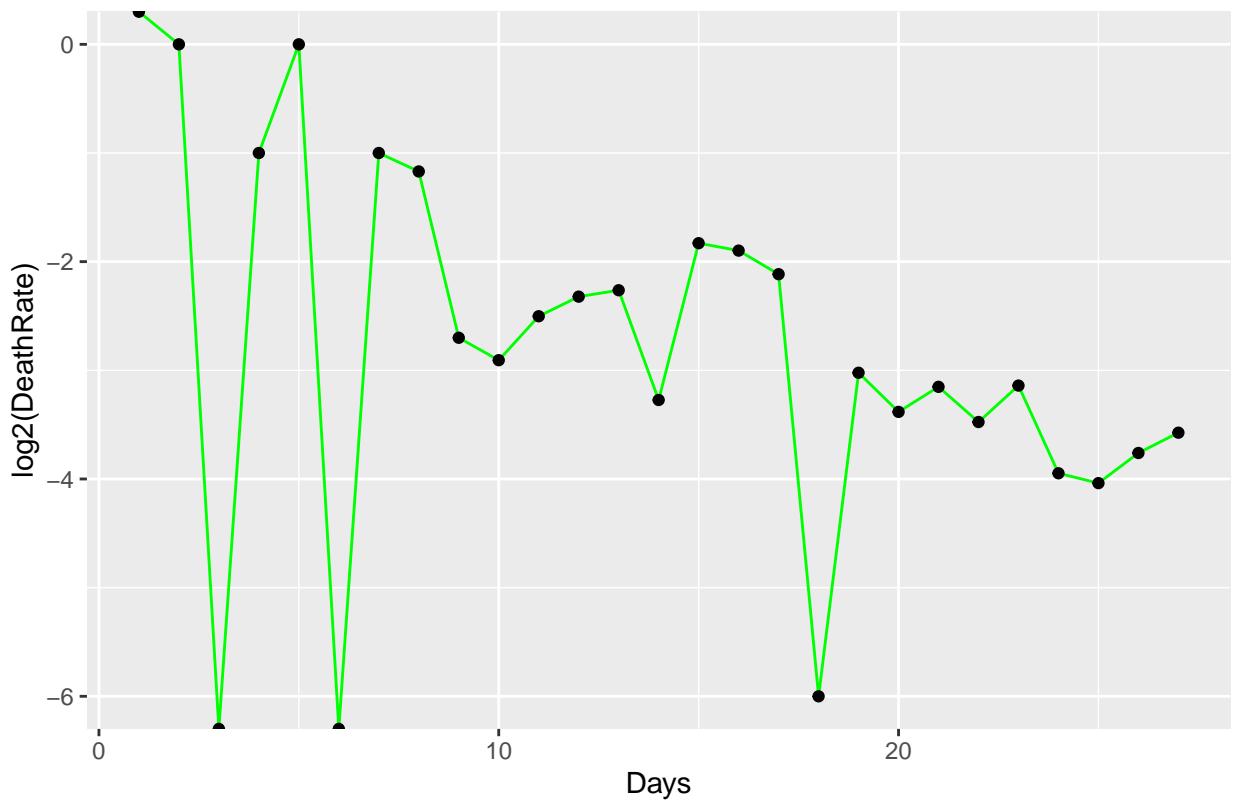
## Doubling Rate in days



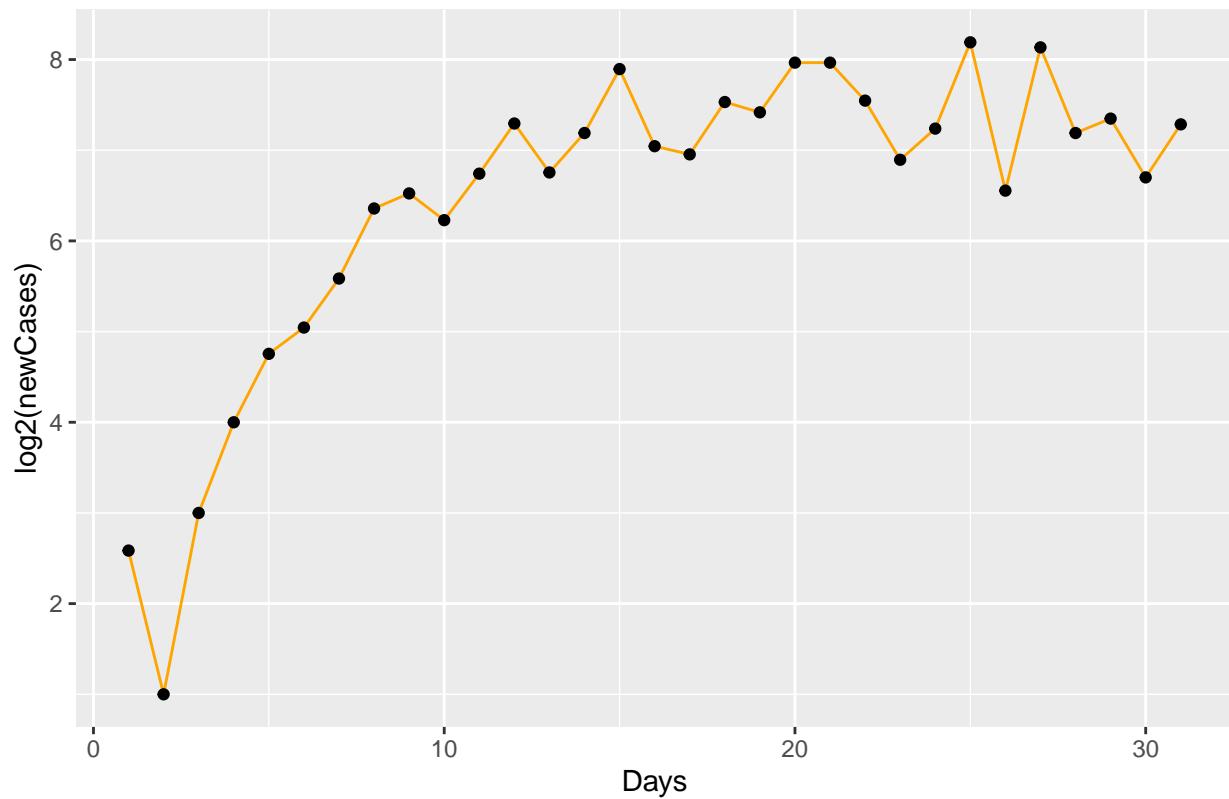
## Doubling Rate vs Growth Rate



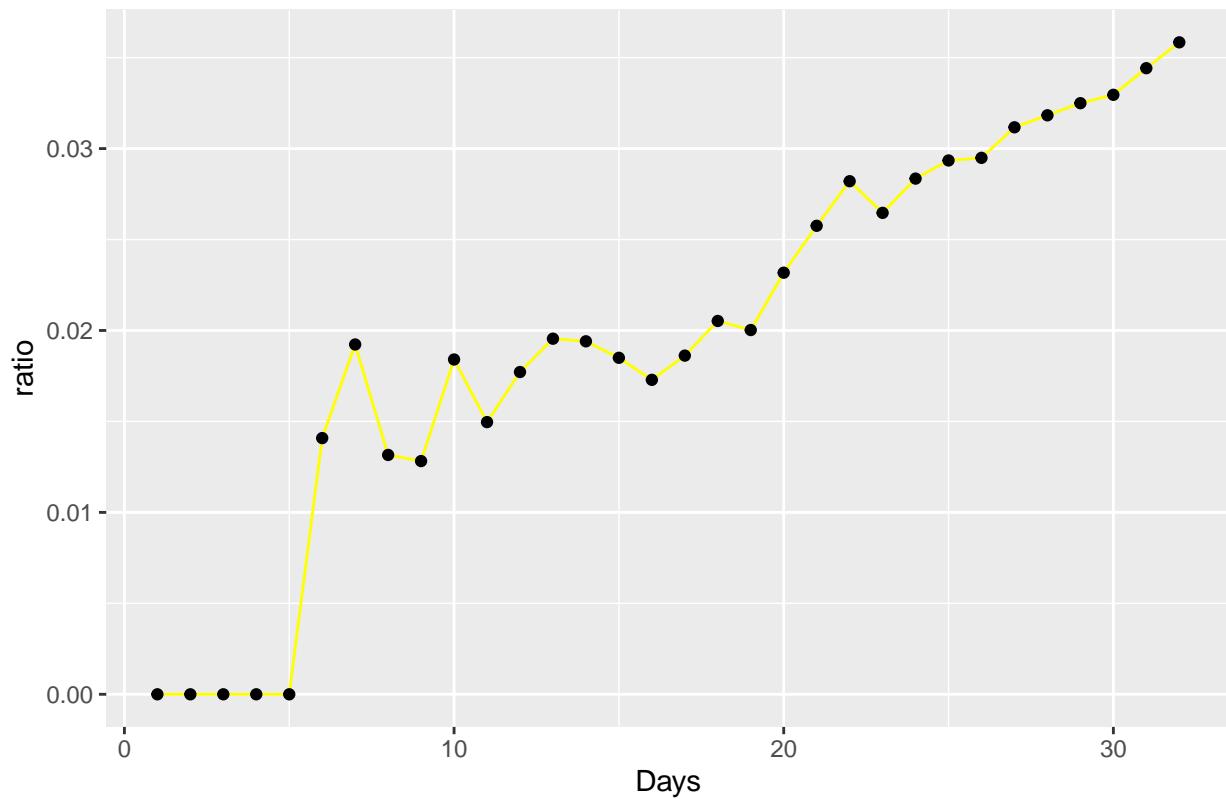
### Arizona: Daily Death Rate



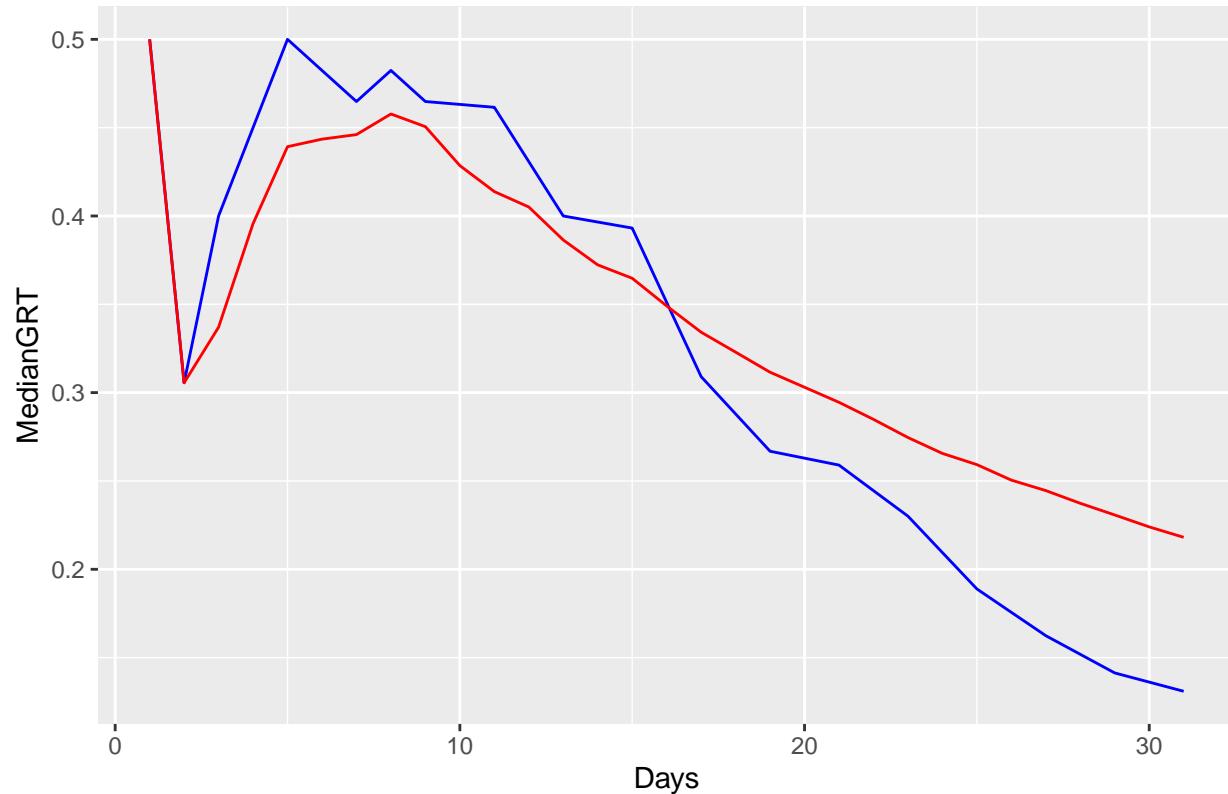
Arizona:newCases(Orange)



### Arizona: TotalDeaths/TotalCases



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

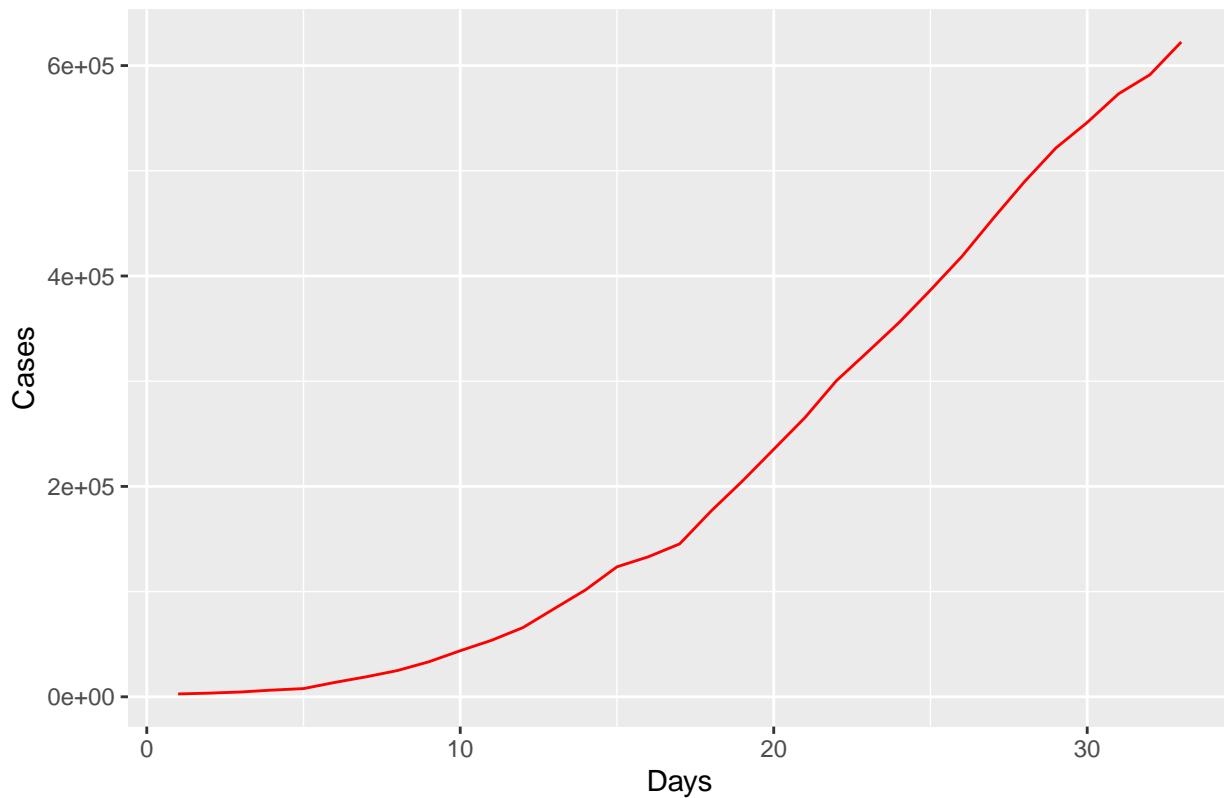


#### Results:

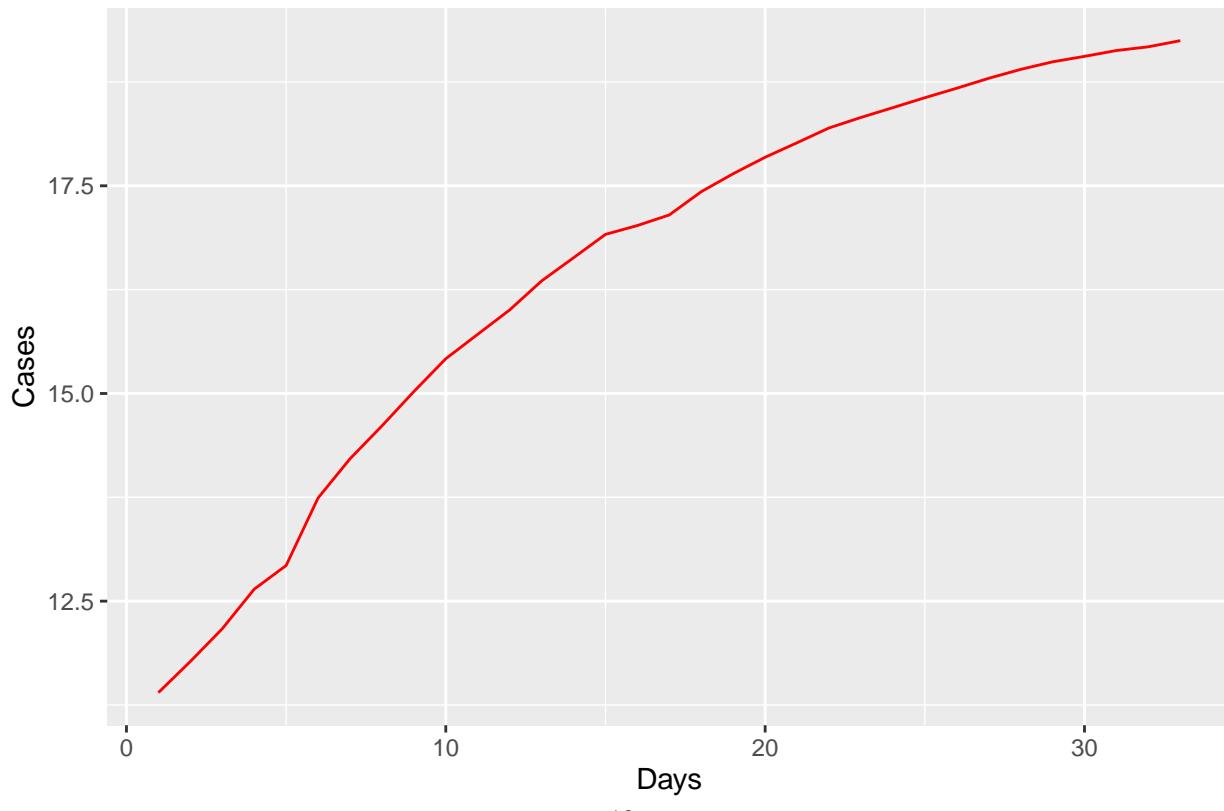
- Tomorrows predicted case number is between **4124.3941146** and **4826.0932495** cases.
- Current doubling rate is **17 days**
- Mean doubling rate, i.e number of cases doubles every **3 days**.
- Median doubling rate, i.e number of cases doubles every **5 days**.
- Latest Observed Growth Rate **4.0987914** percent.
- Mean Growth Rate: **21.8095217** percent.
- Median Growth Rate: **13.0927105** percent.
- Standard deviation: +/- **18.2583015**.

## US Corona Dashboard

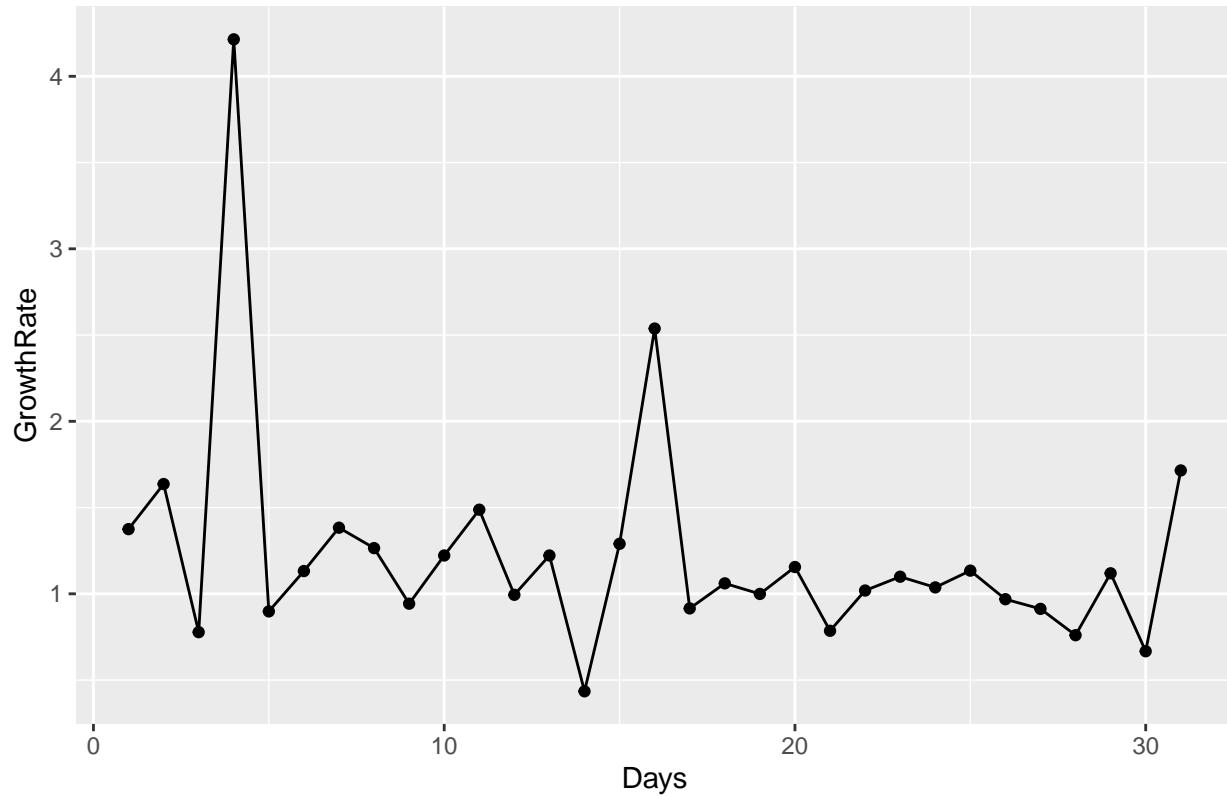
### US: Daily Cases



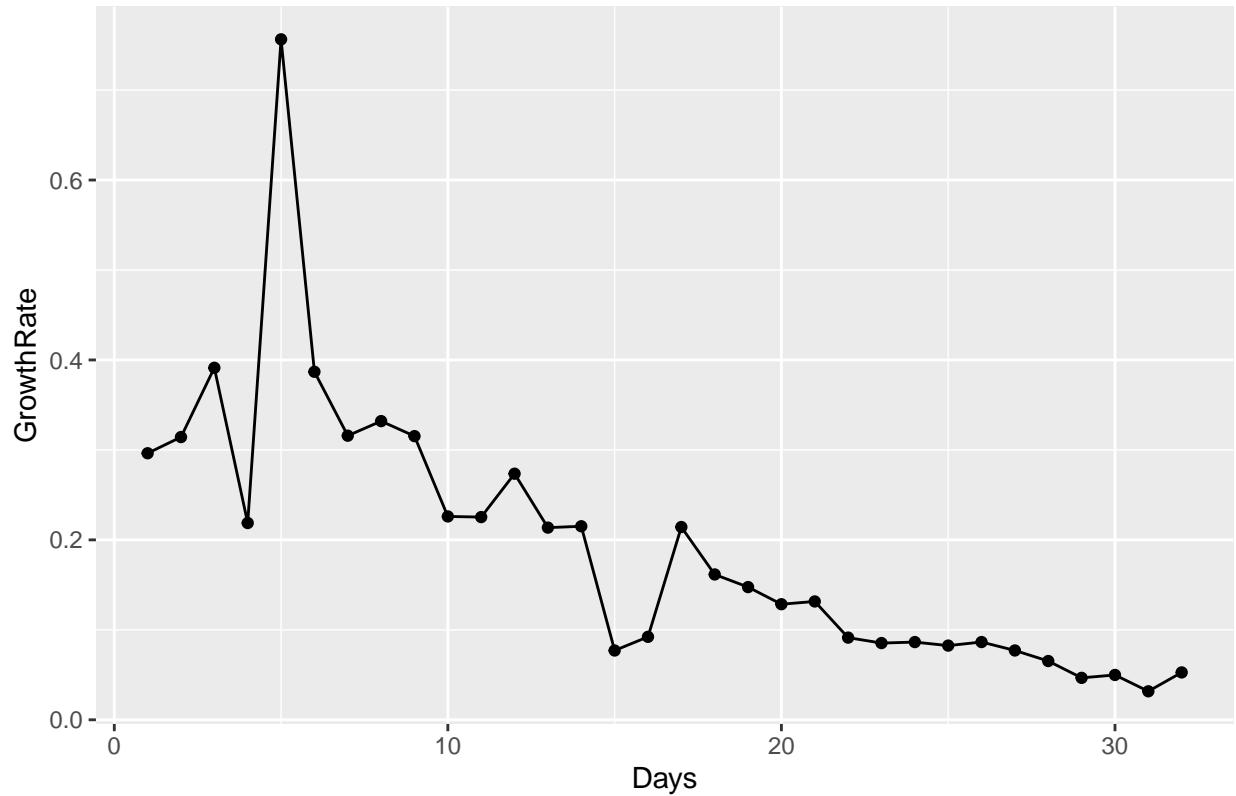
### US: Daily Cases



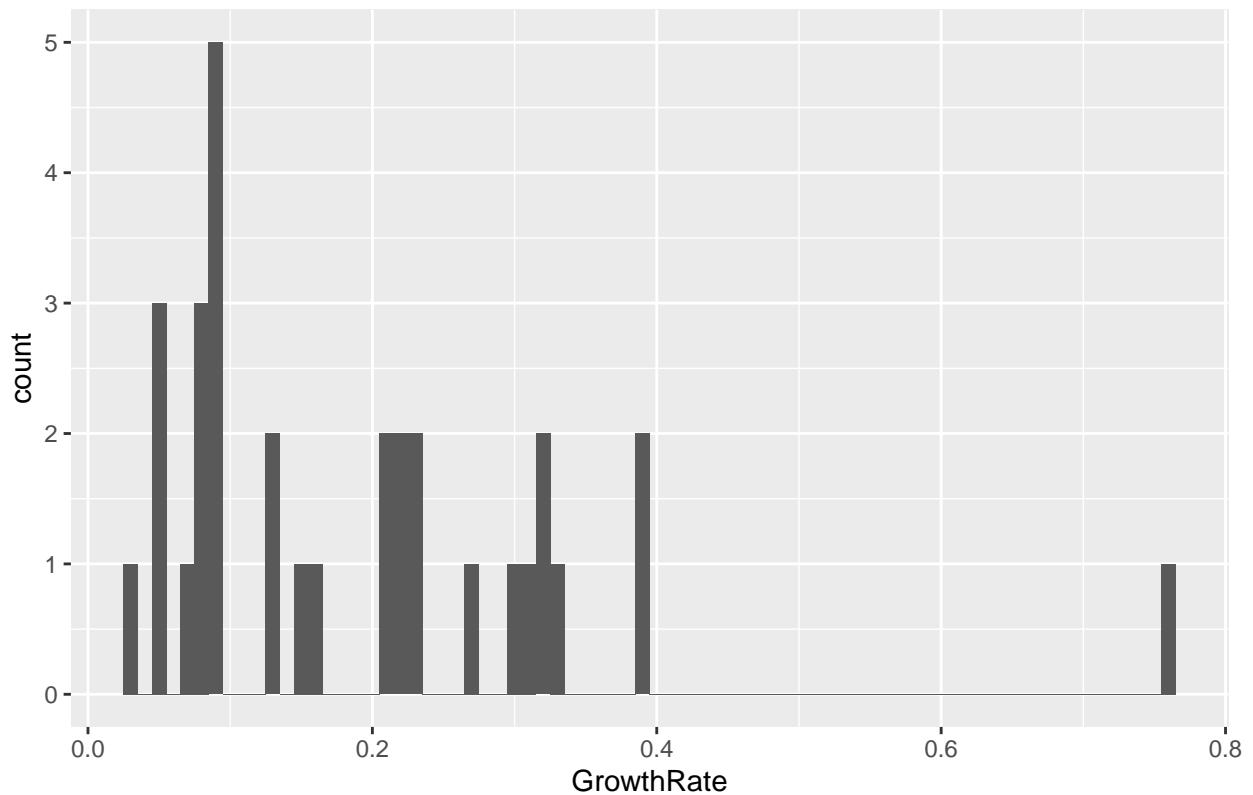
### US: Rate of change in Growth Rate



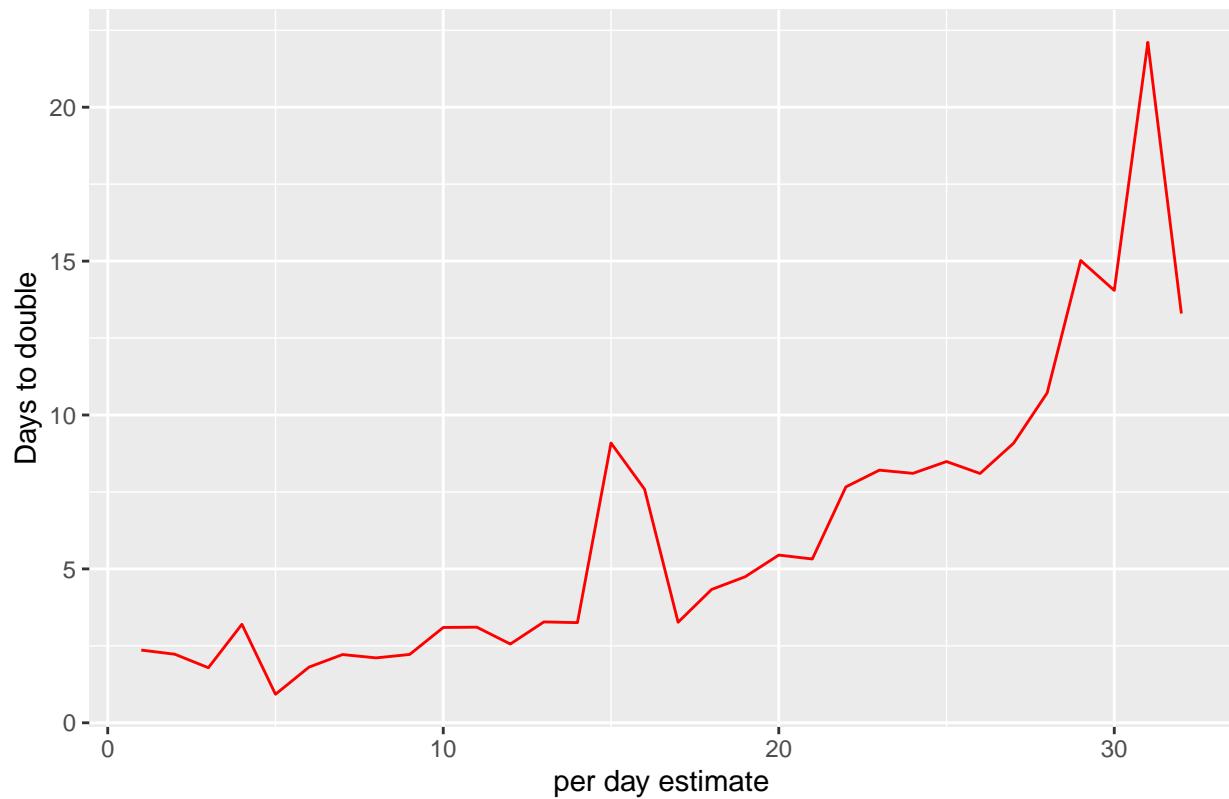
## US: Growth Rate



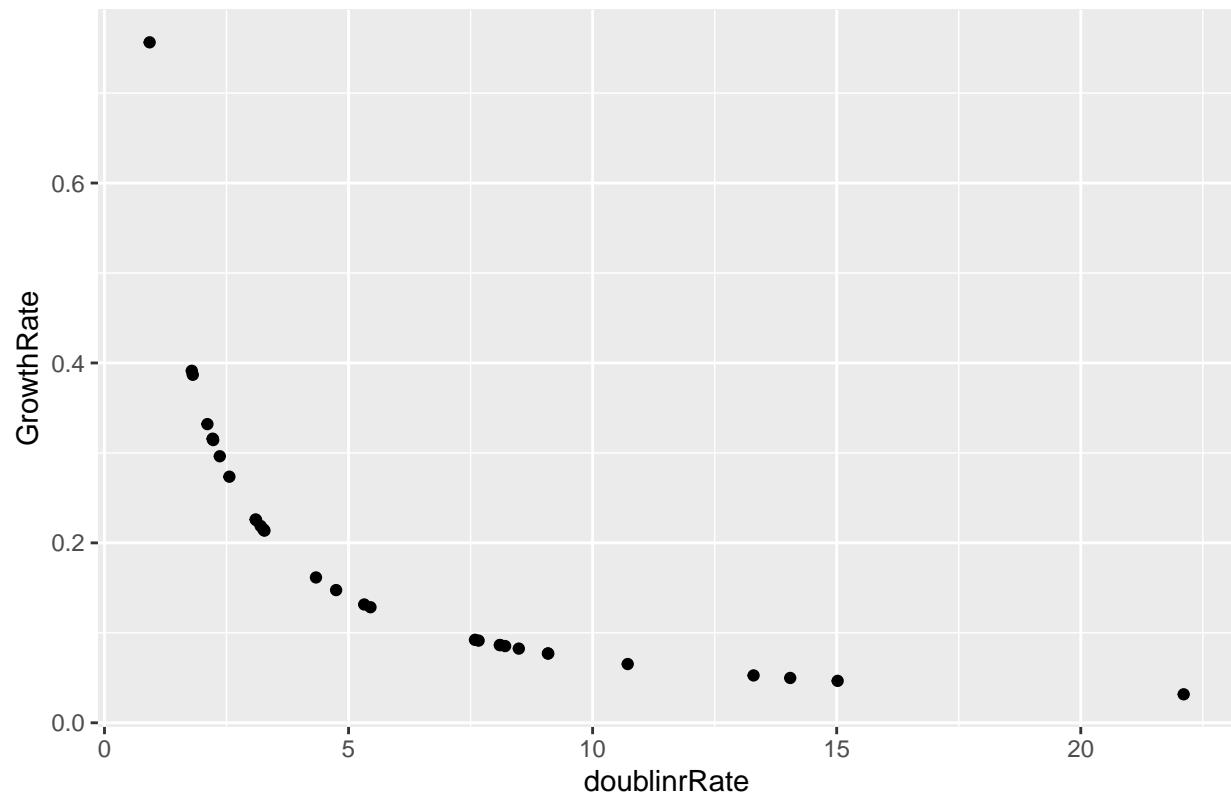
Histogram of GrowthRate



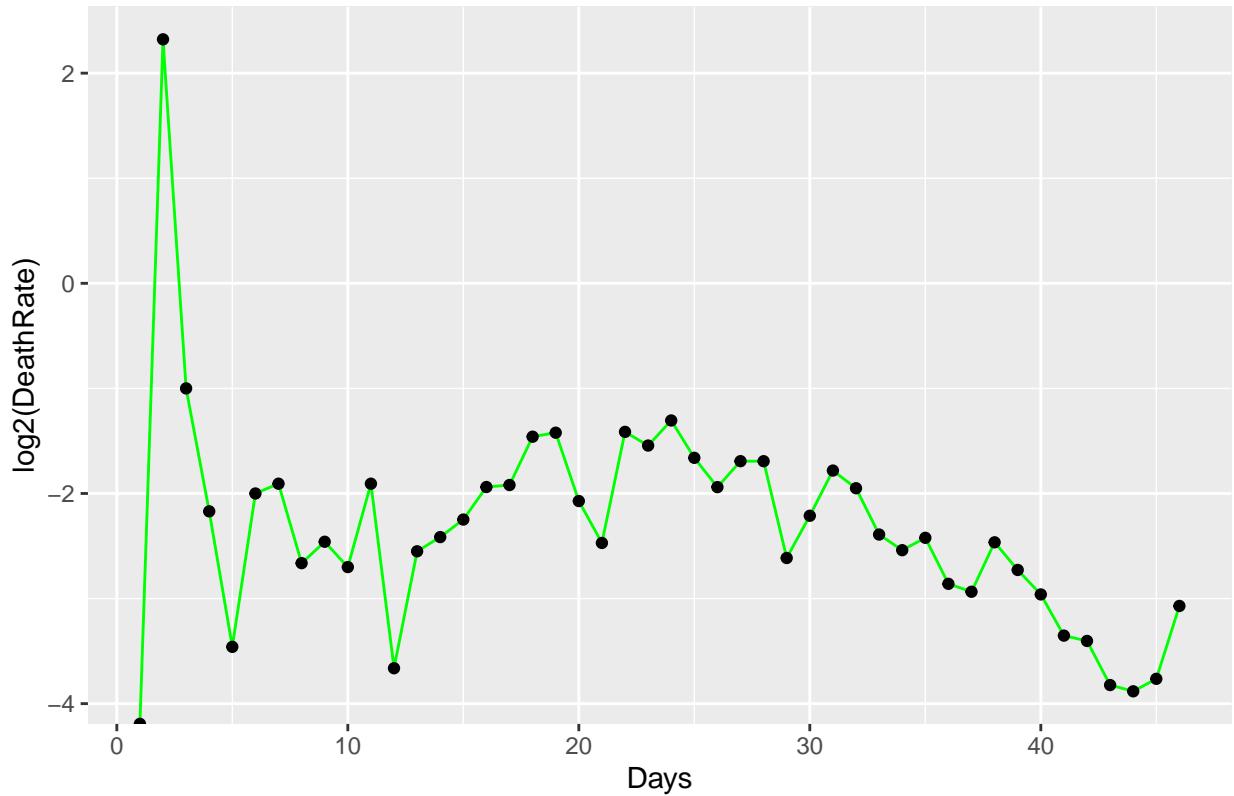
### Doubling Rate in days



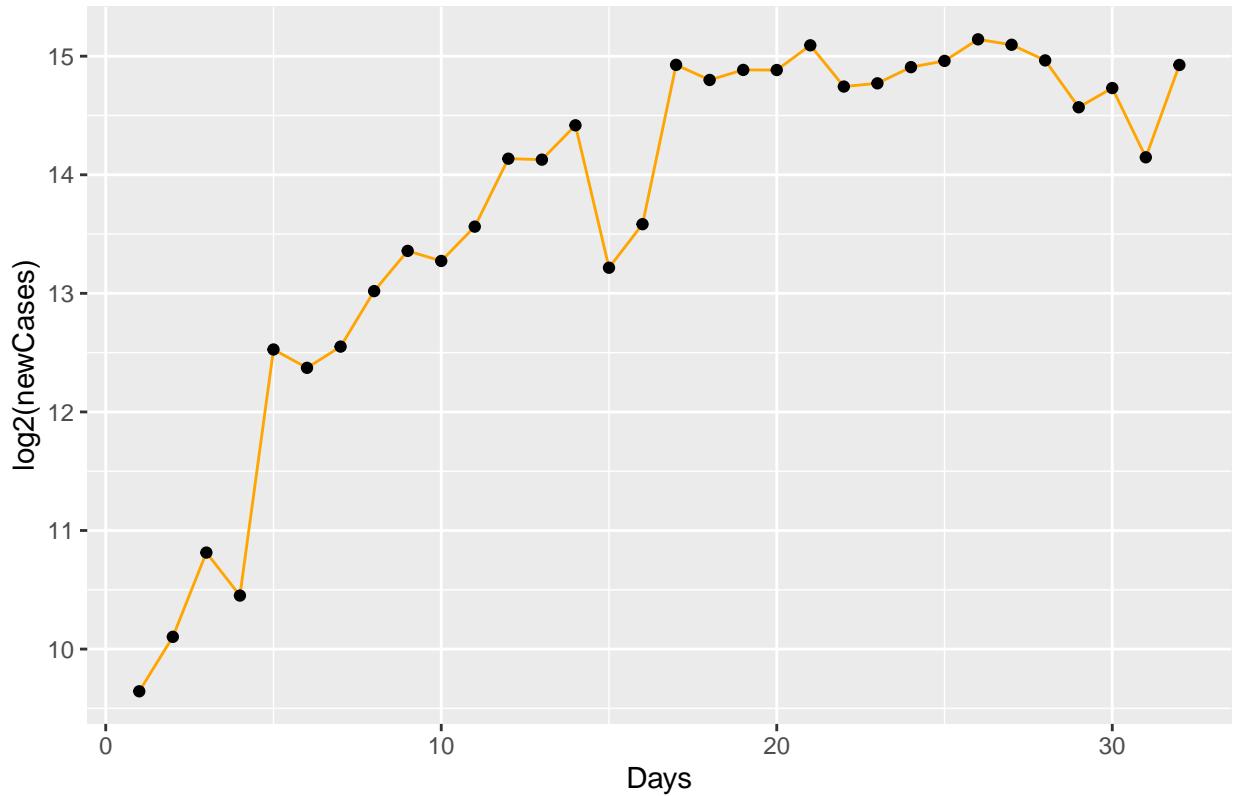
## Doubling Rate vs Growth Rate



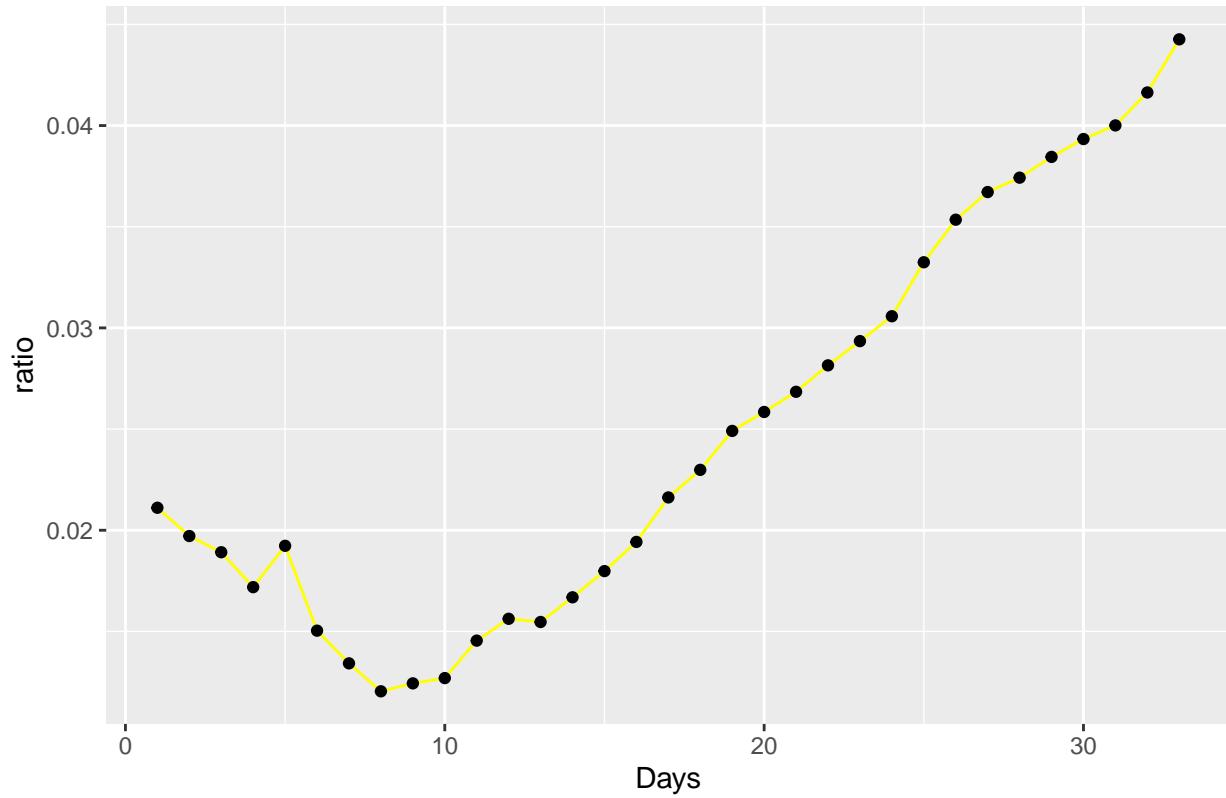
## US: Daily Death Rate



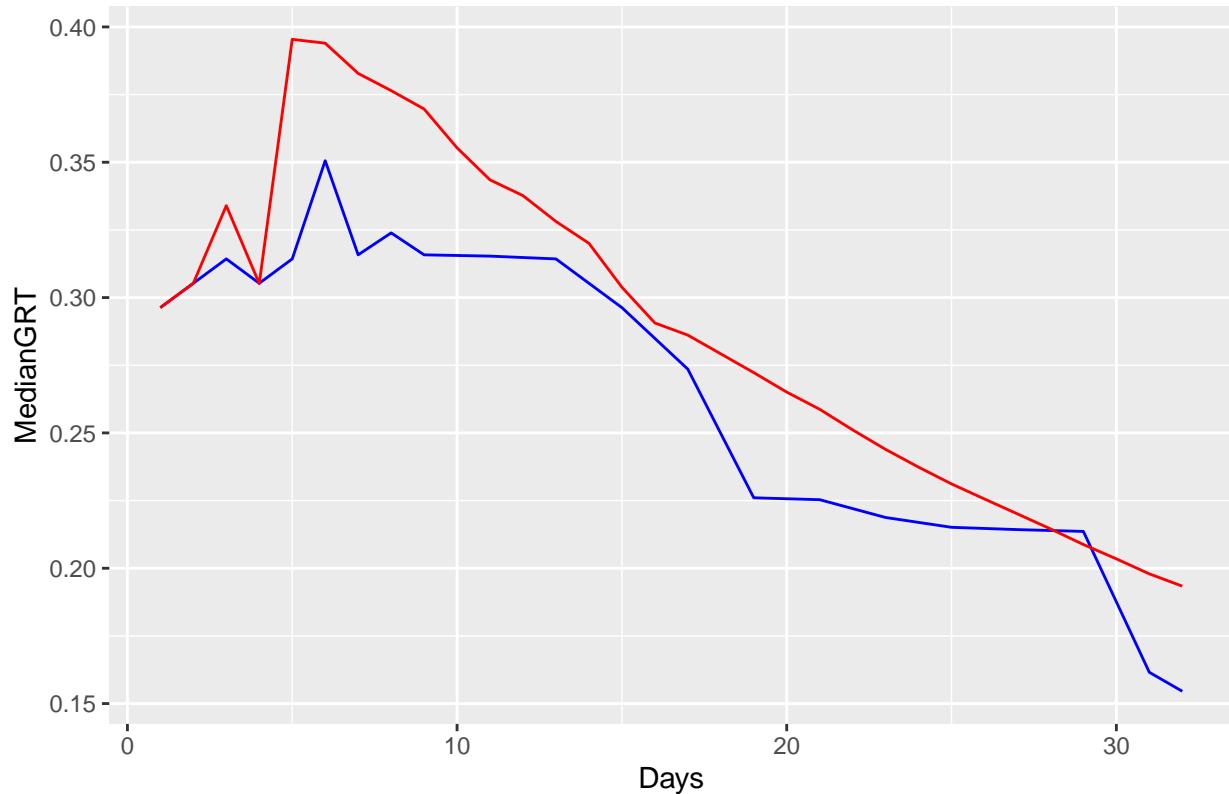
US:newCases(Orange)



### US: TotalDeaths/TotalCases



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

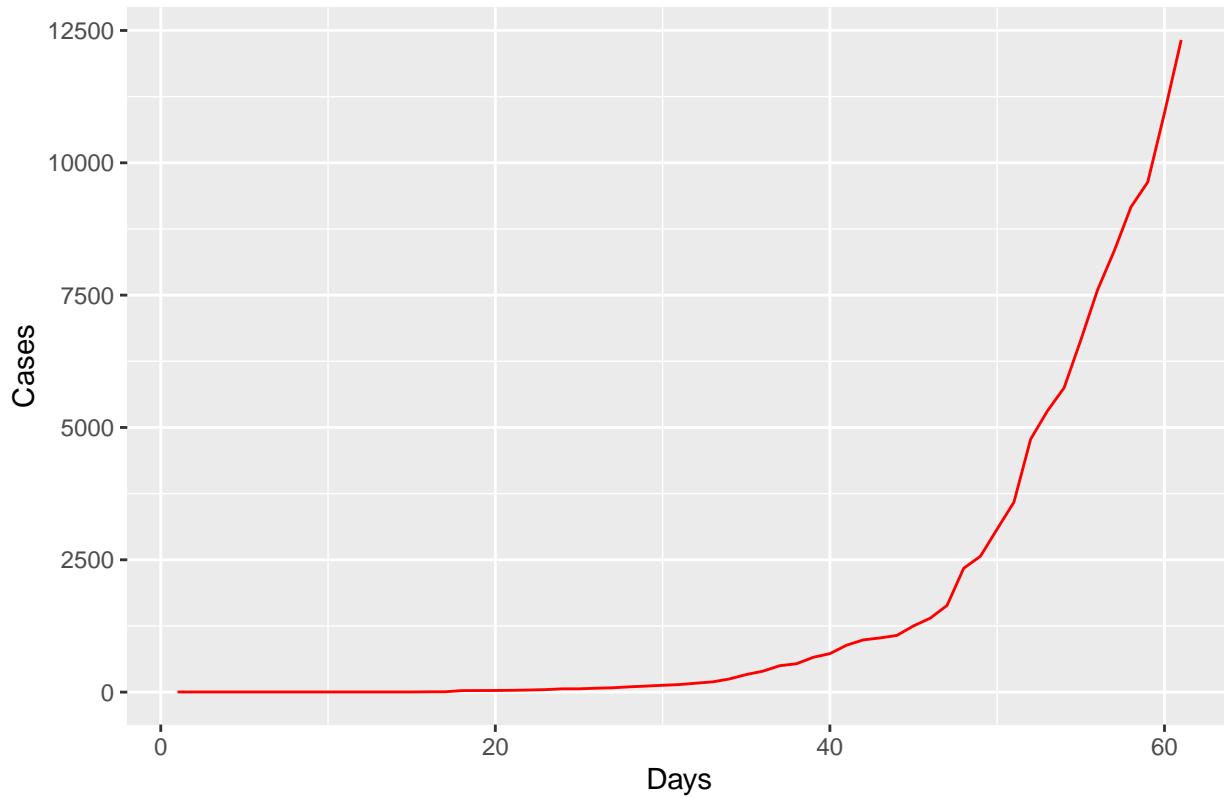


#### Results:

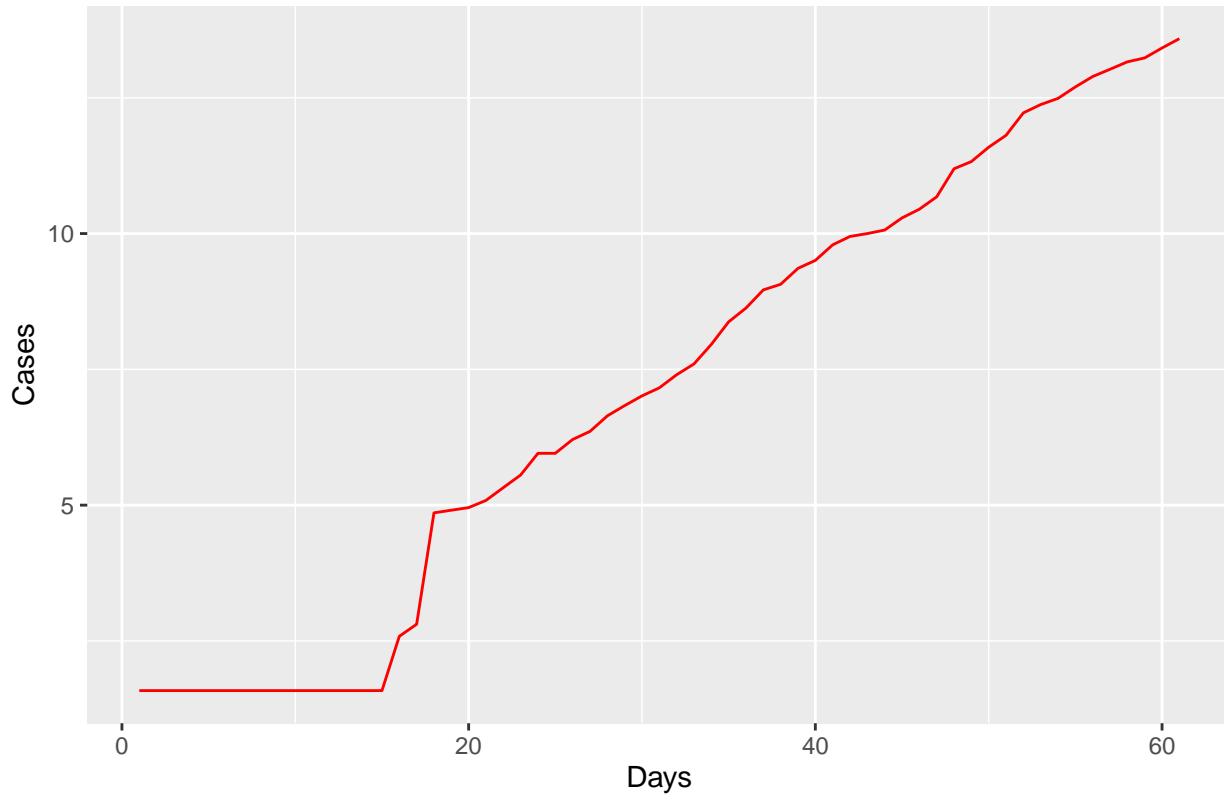
- Tomorrows predicted case number is between  $6.5517762 \times 10^5$  and  $7.4277539 \times 10^5$  cases.
- Current doubling rate is **13 days**
- Mean doubling rate, i.e number of cases doubles every **4 days**.
- Median doubling rate, i.e number of cases doubles every **5 days**.
- Latest Observed Growth Rate **5.2642973** percent.
- Mean Growth Rate: **19.338218** percent.
- Median Growth Rate: **15.4534604** percent.
- Standard deviation: +/- **14.9042783**.

## India Corona Dashboard

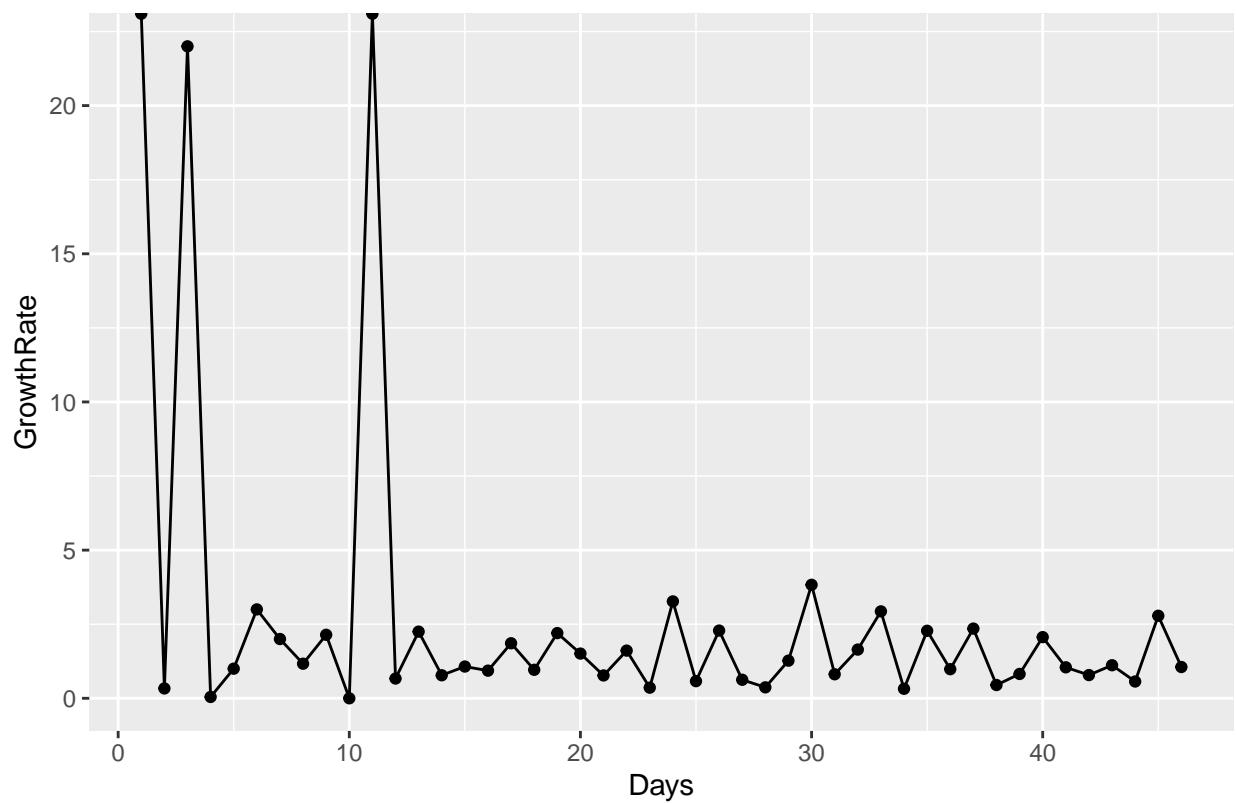
### India: Daily Cases



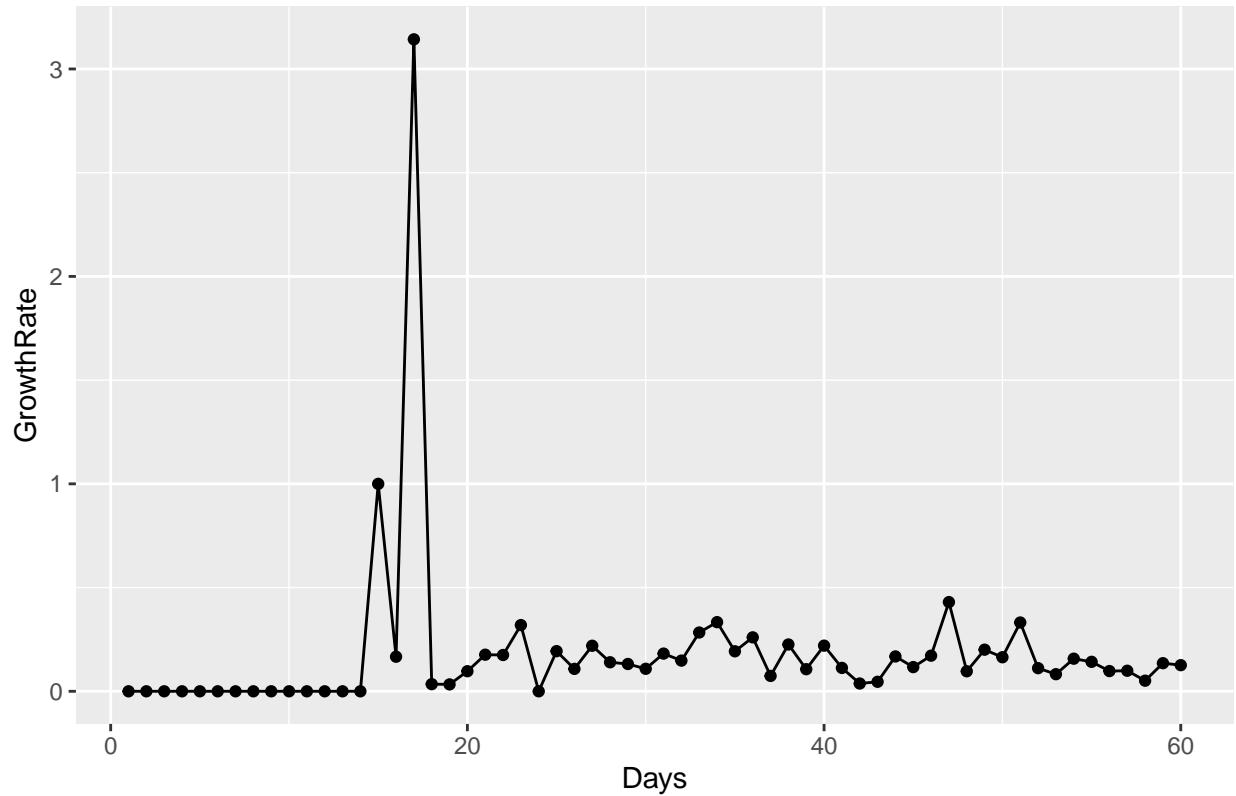
### India: Daily Cases



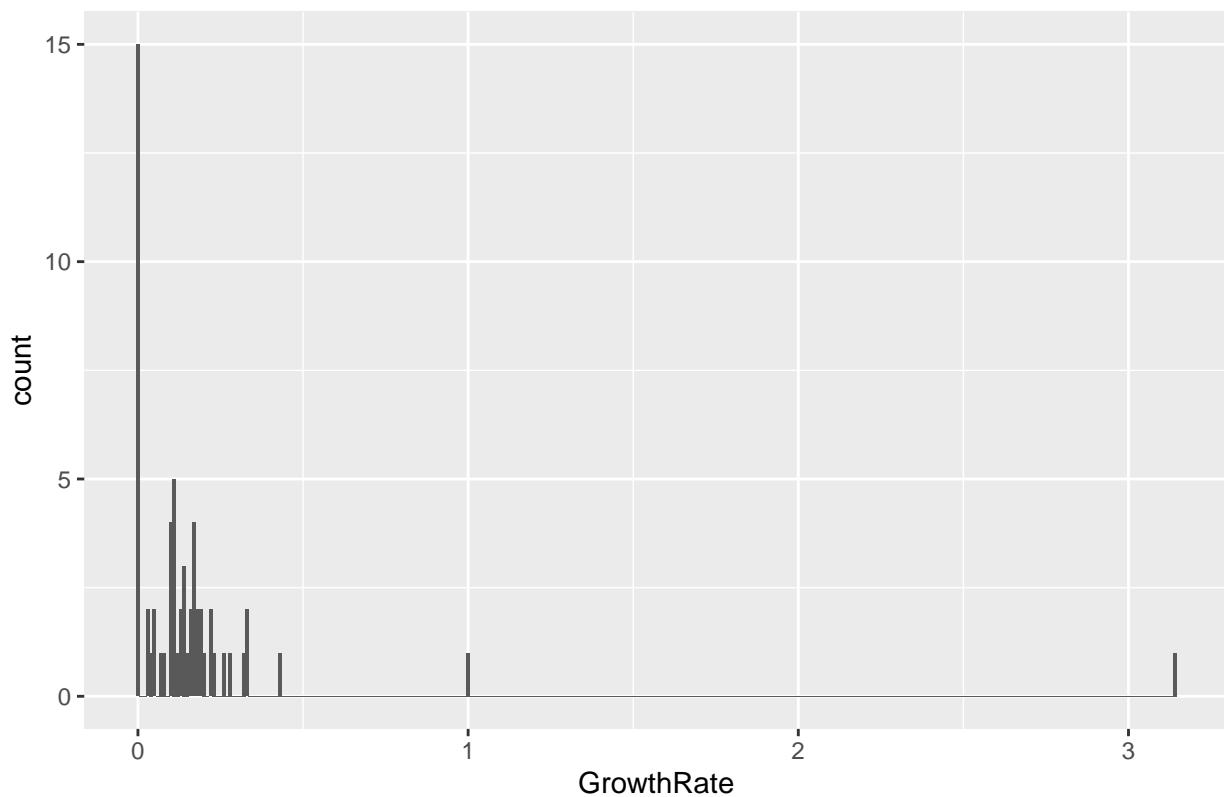
### US: Rate of change in Growth Rate



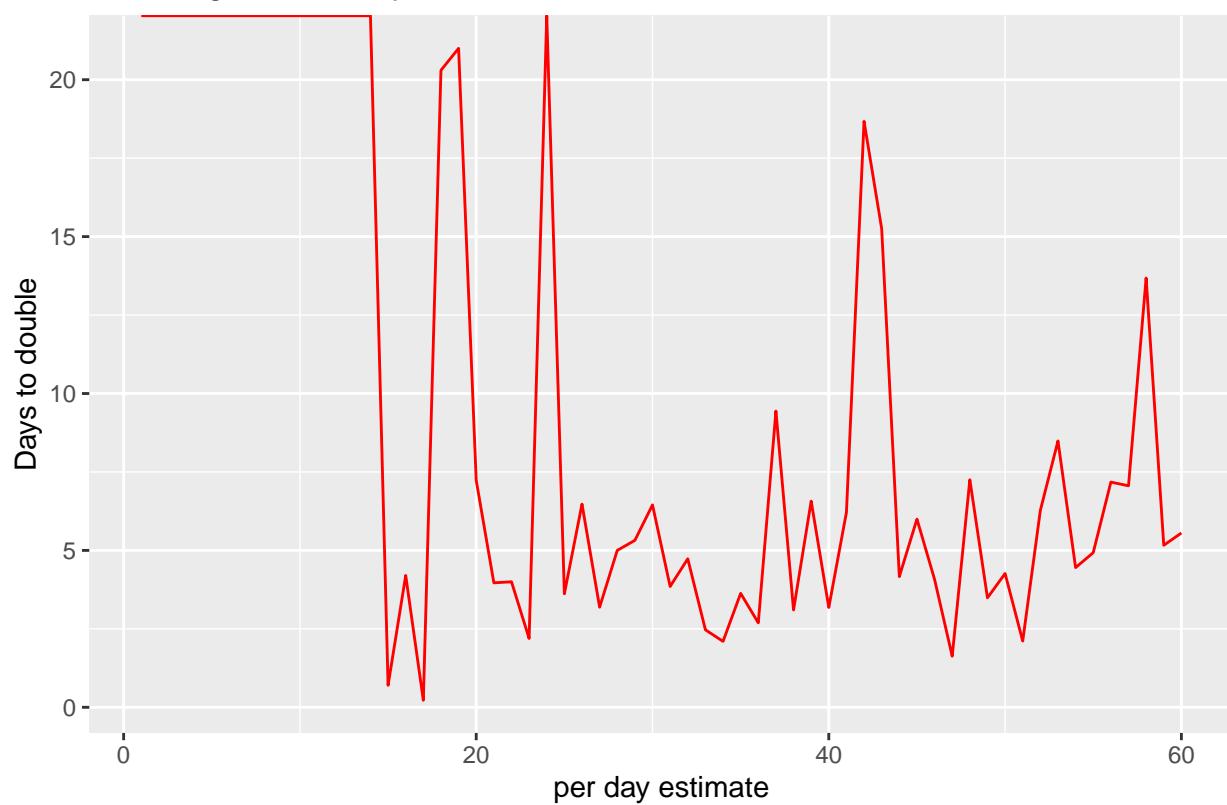
## India: Growth Rate



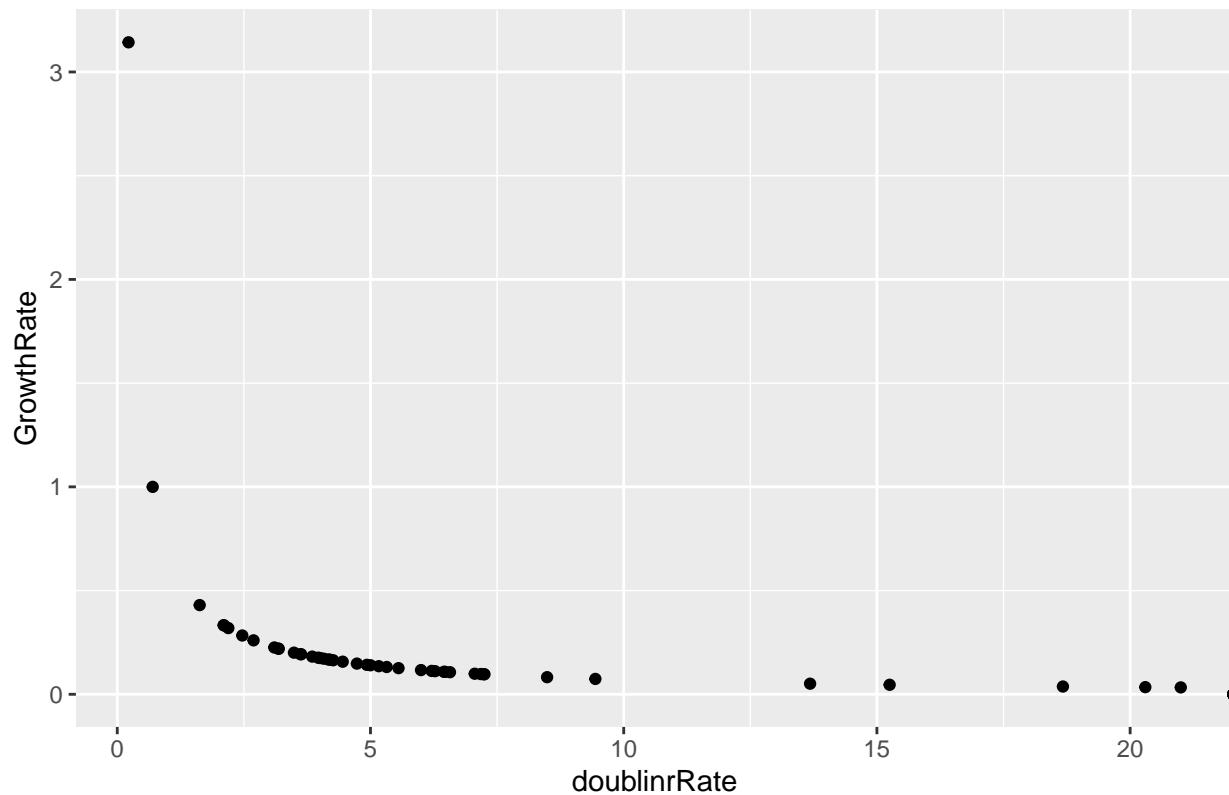
Histogram of GrowthRate



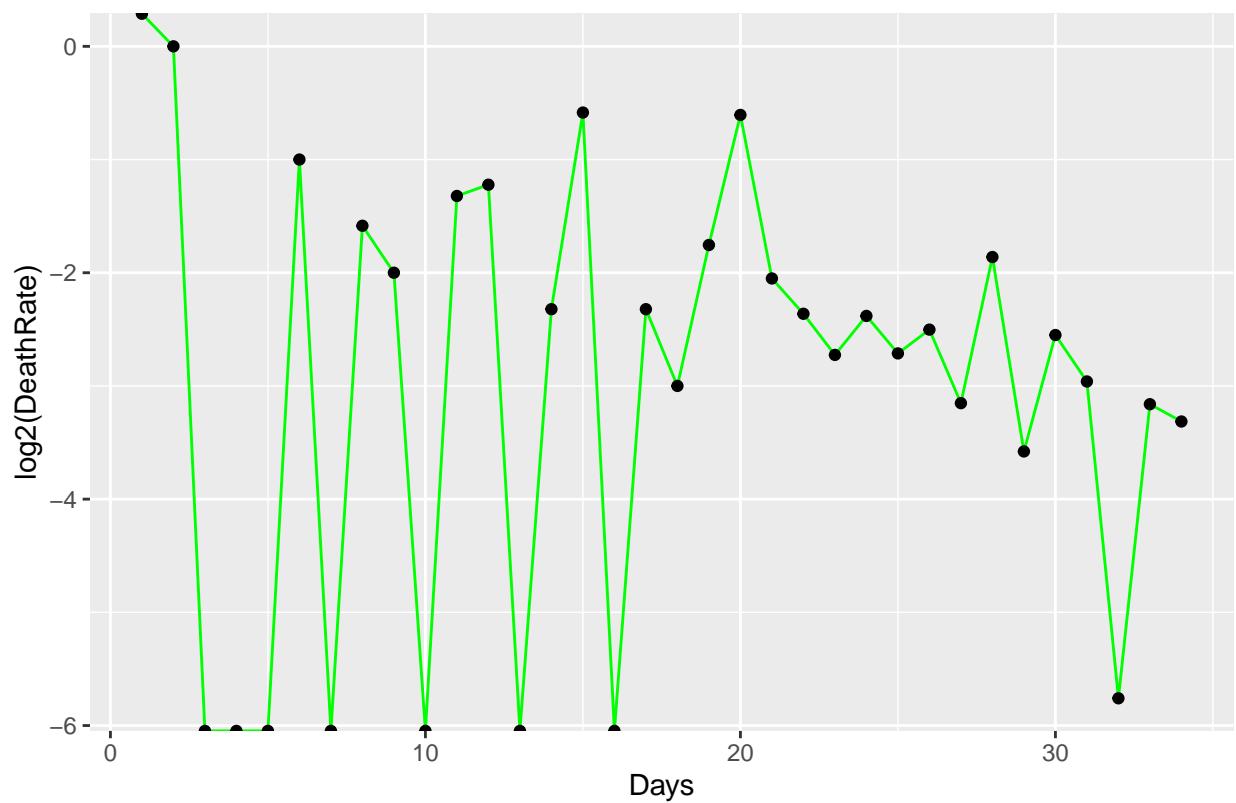
### Doubling Rate in days



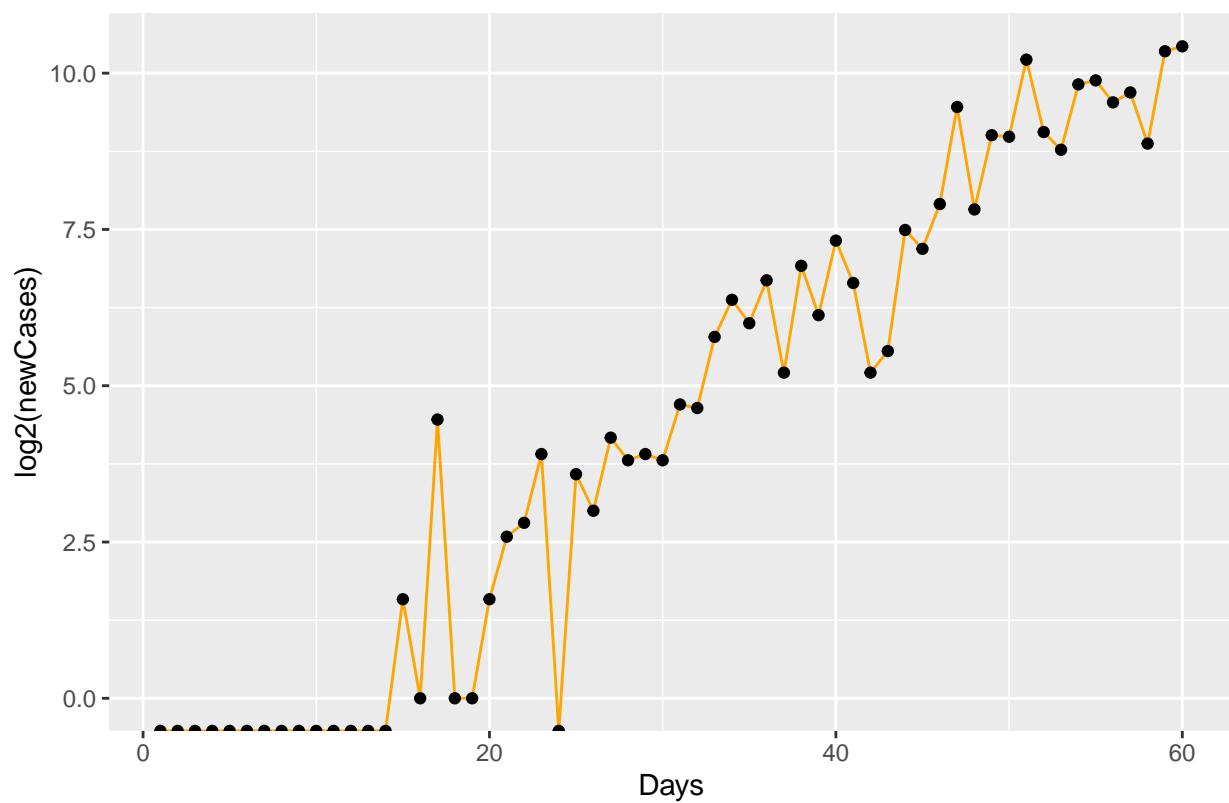
Doubling Rate vs Growth Rate



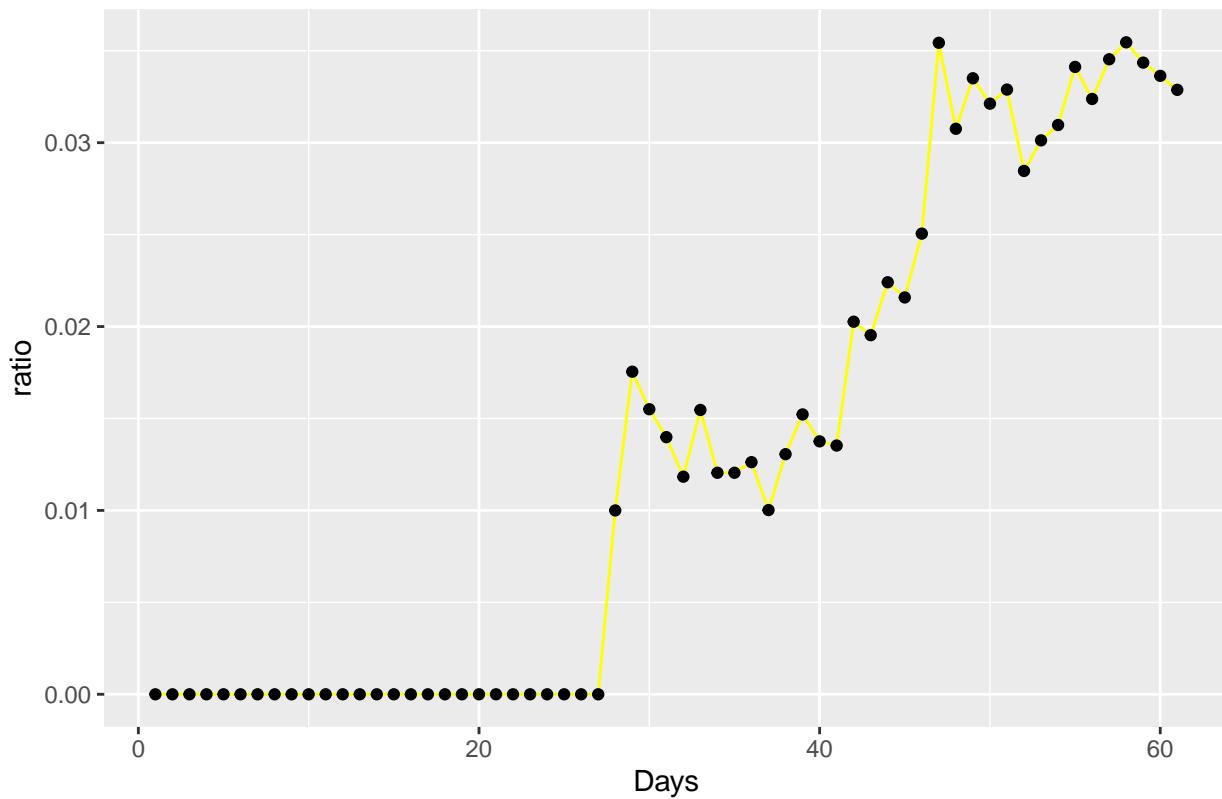
### India: Daily Death Rate



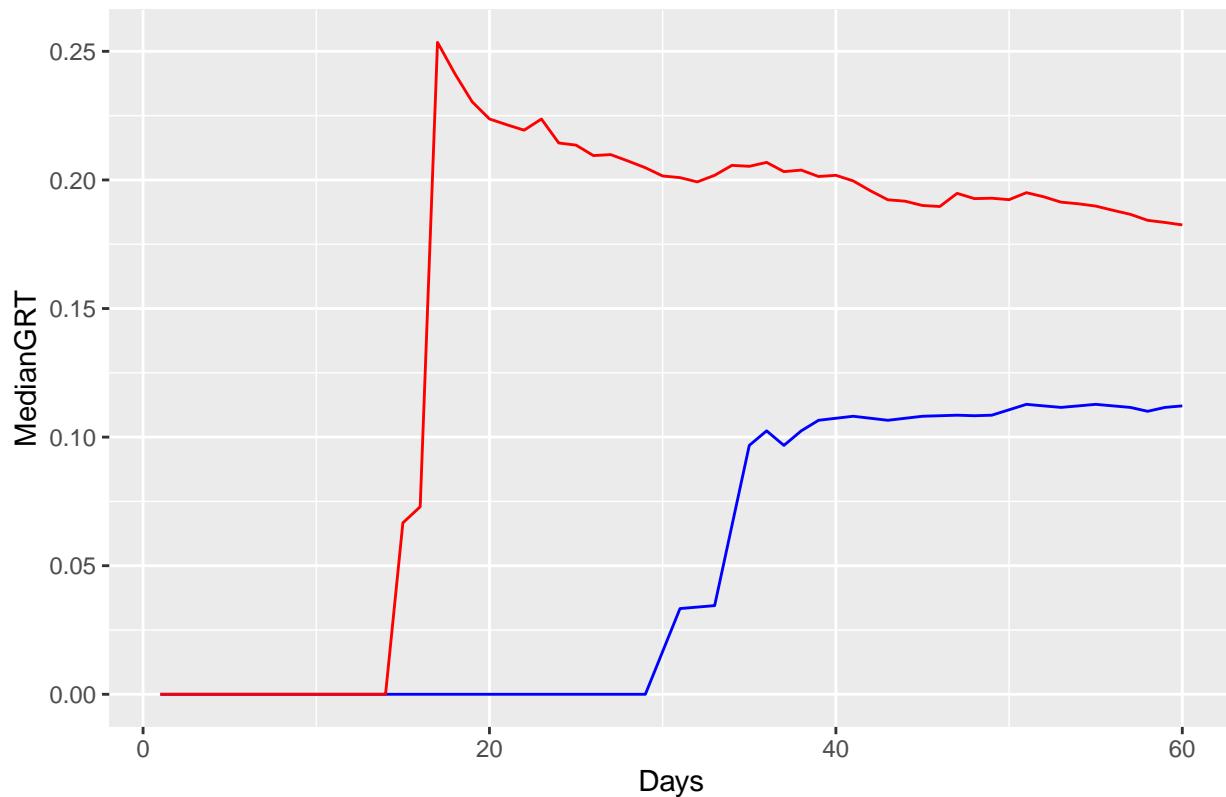
India:newCases(Orange)



### India: TotalDeaths/TotalCases



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



#### Results:

- Tomorrows predicted case number is between  $1.3872809 \times 10^4$  and  $1.4568504 \times 10^4$  cases.
- Current doubling rate is **6 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 **12.6039667** percent.
- Mean Growth Rate: **18.2508407** percent.
- Median Growth Rate: **11.2146261** percent.
- Standard deviation: +/- **41.7316199**.