

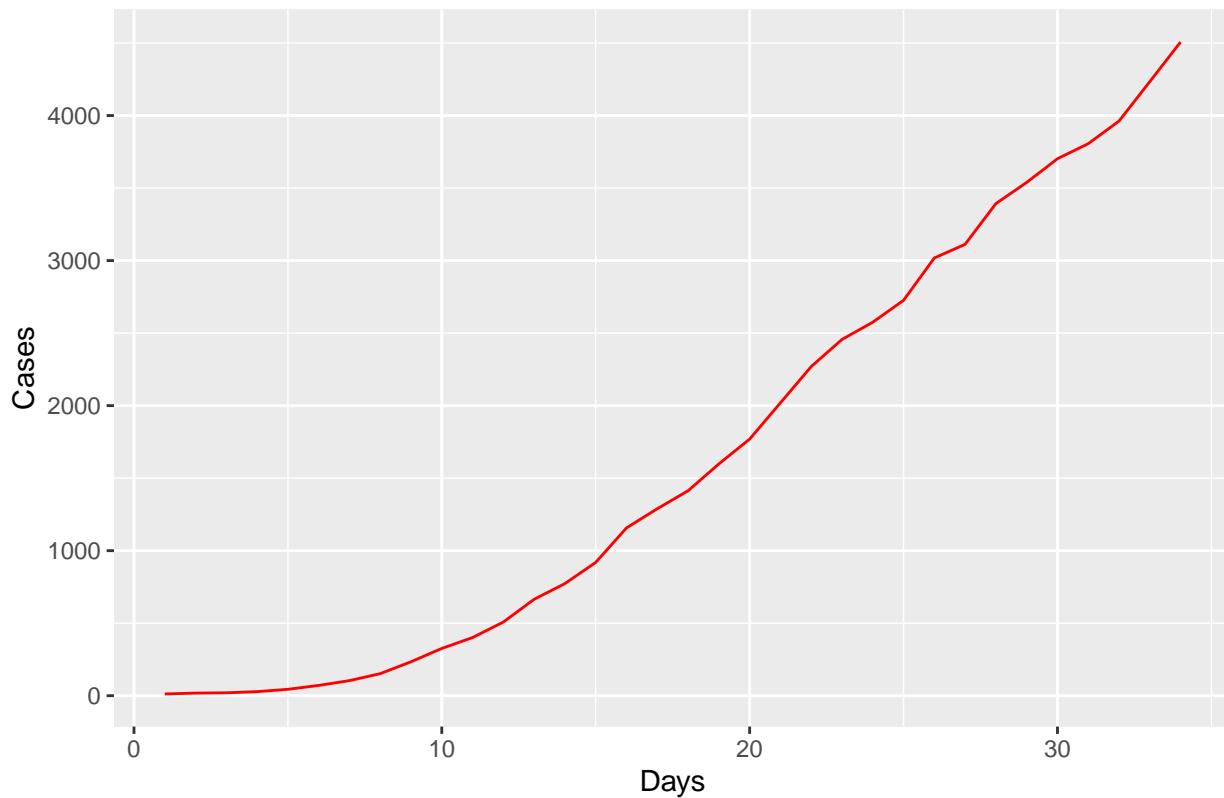
# Arizona/US/India Corona Trends- 17th April 2020 with tomorrow's prediction

Whitchurch Muthumani

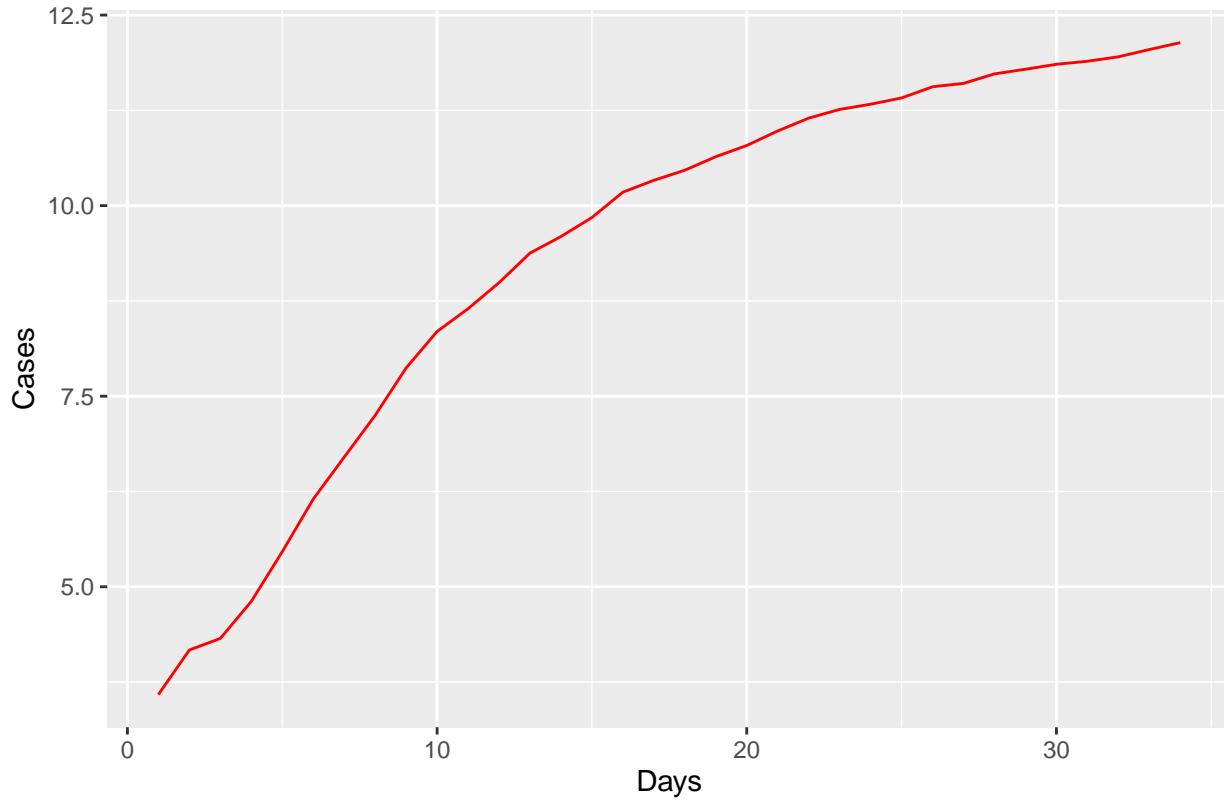
4/17/2020

## Arizona Corona Dashboard

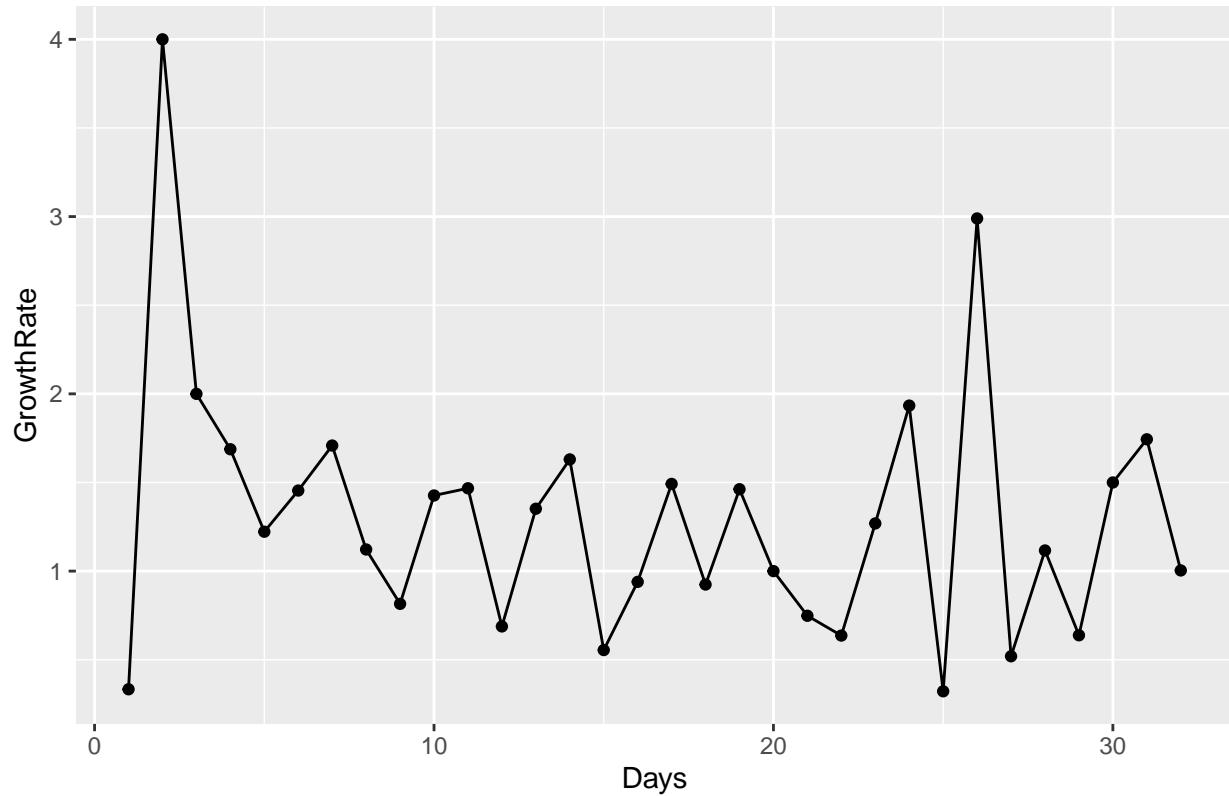
### Arizona: Daily Cases



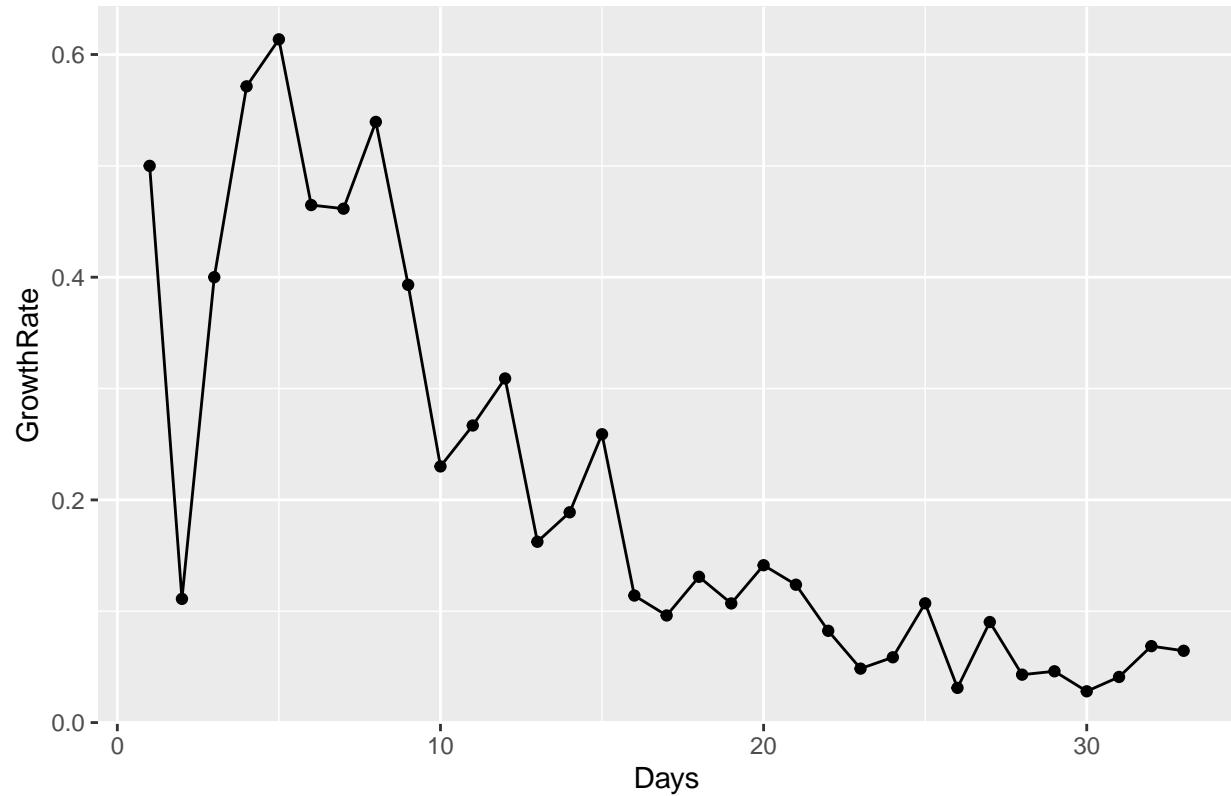
### Arizona: Daily Cases



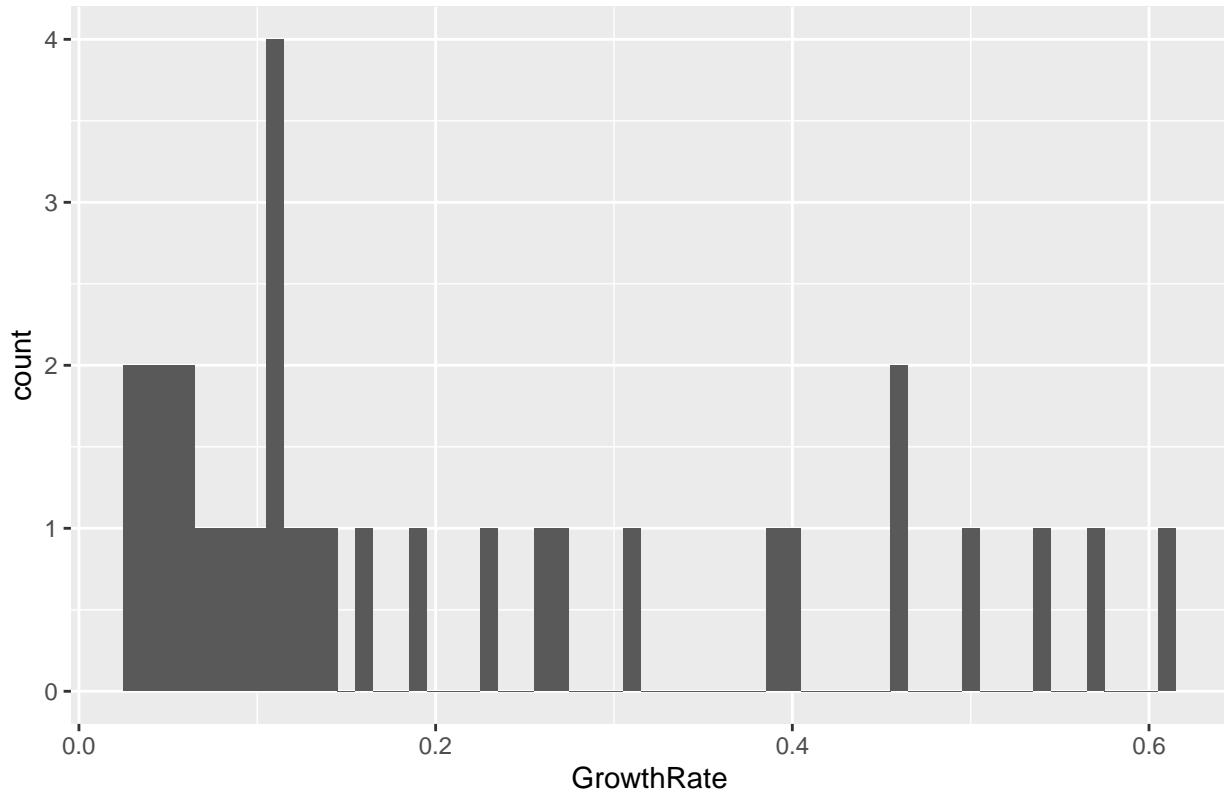
### Arizona: Rate of change in Growth Rate



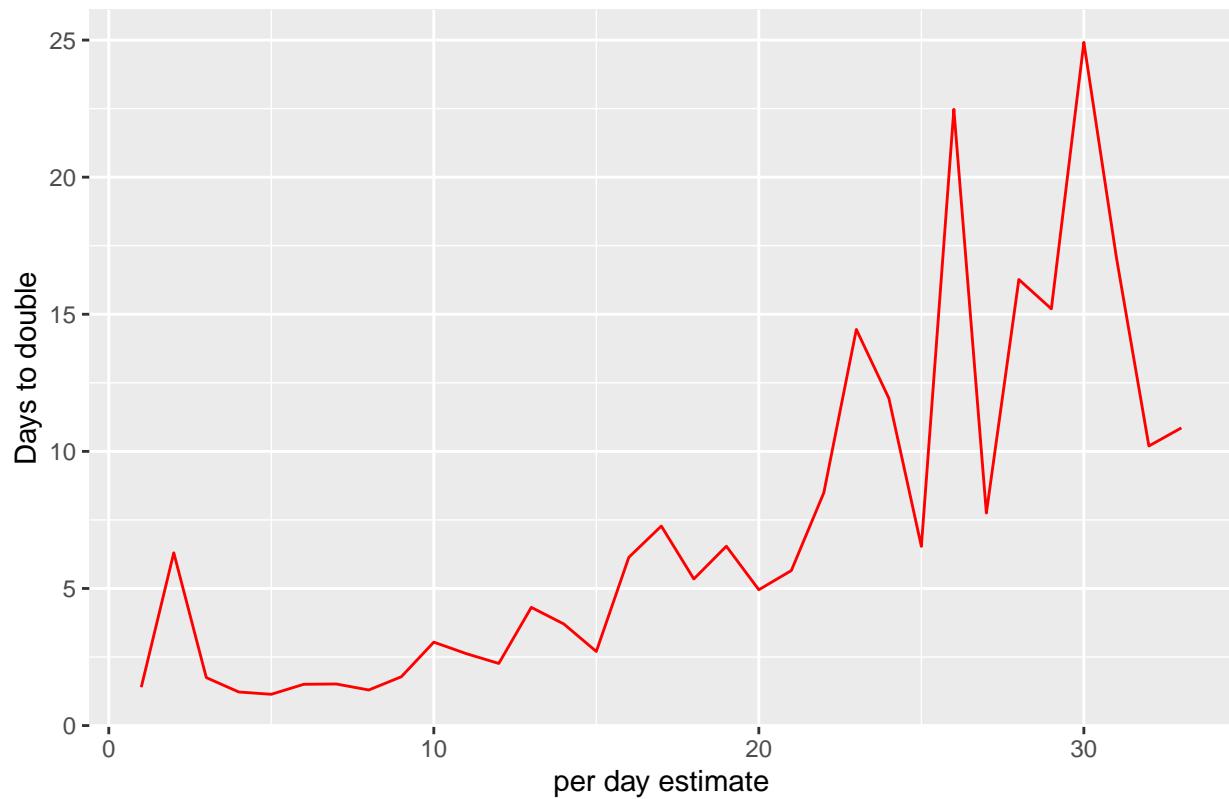
## Arizona: Growth Rate



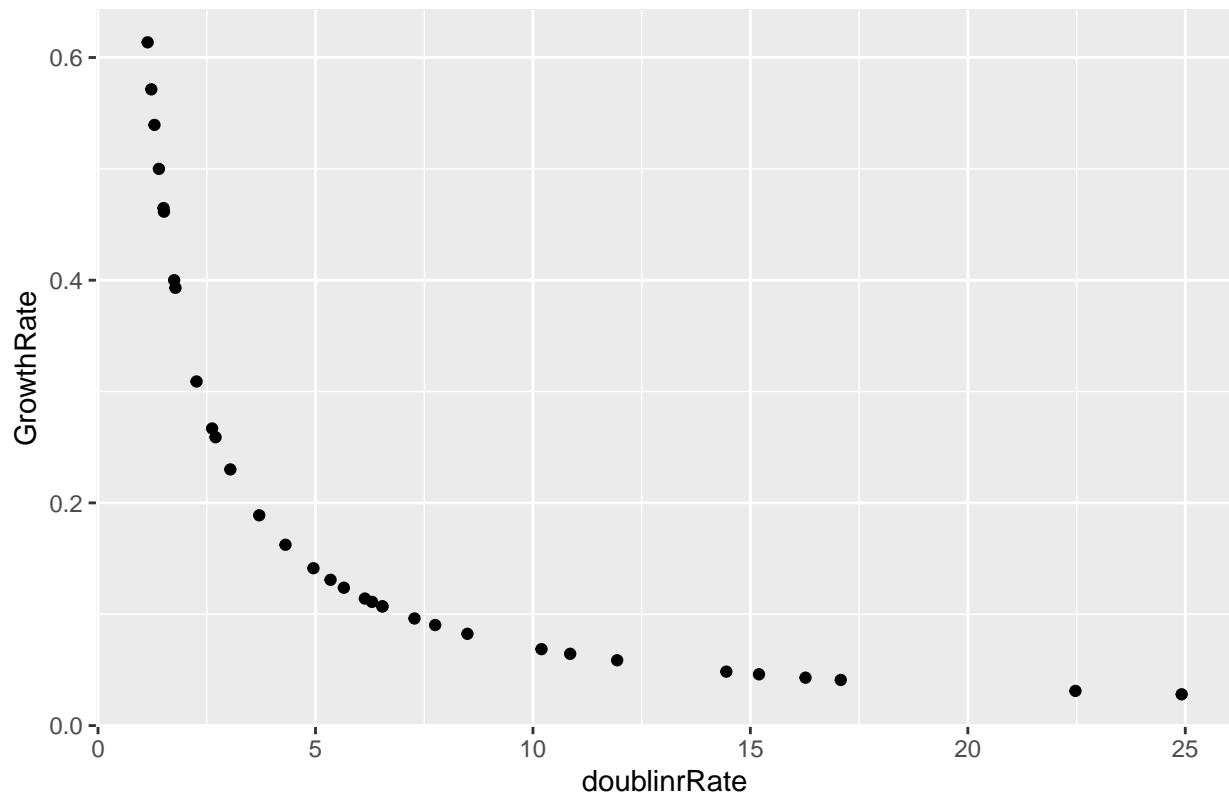
Histogram of GrowthRate



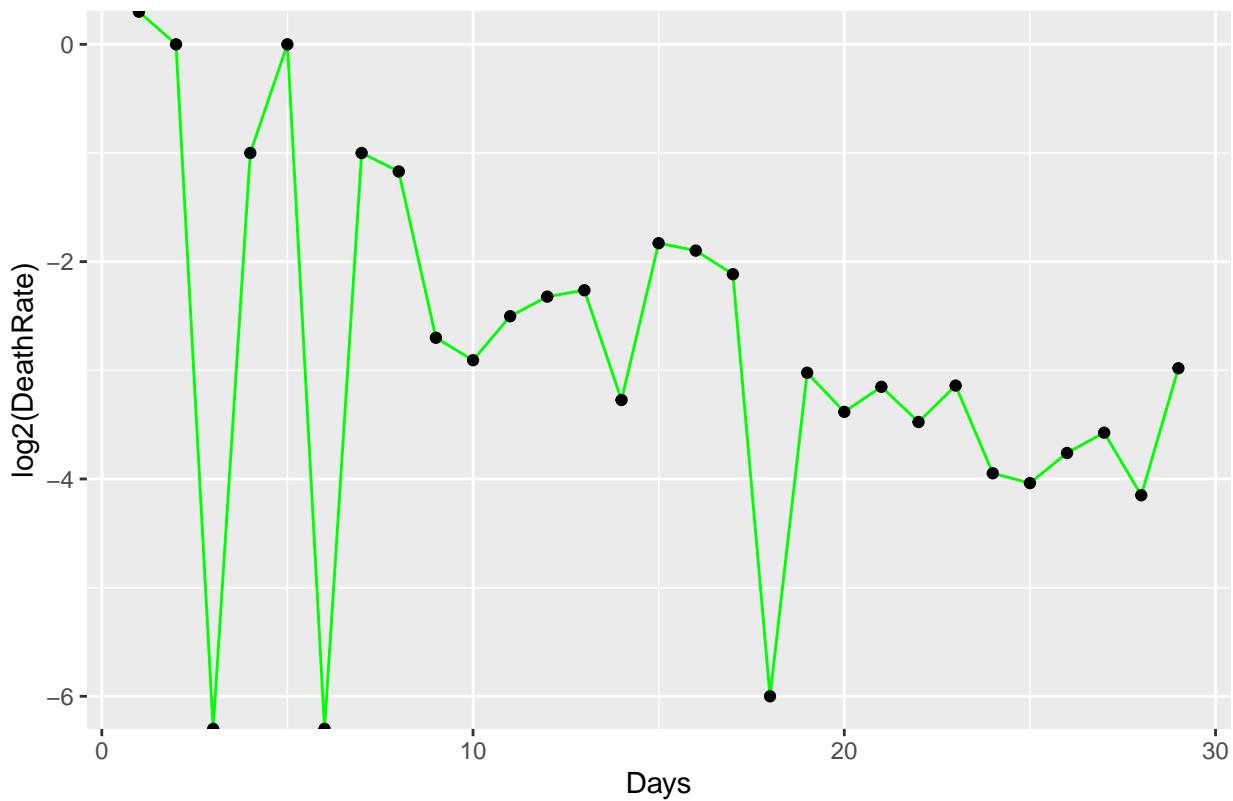
## Doubling Rate in days



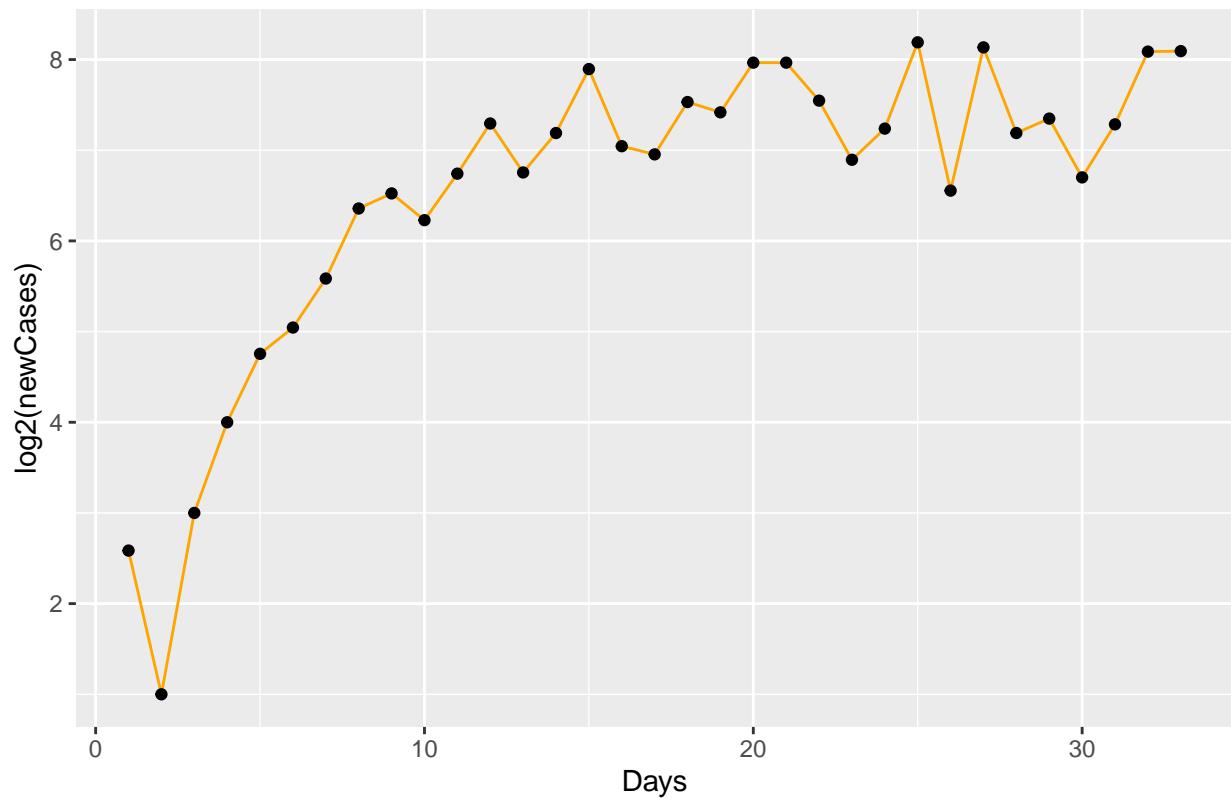
## Doubling Rate vs Growth Rate



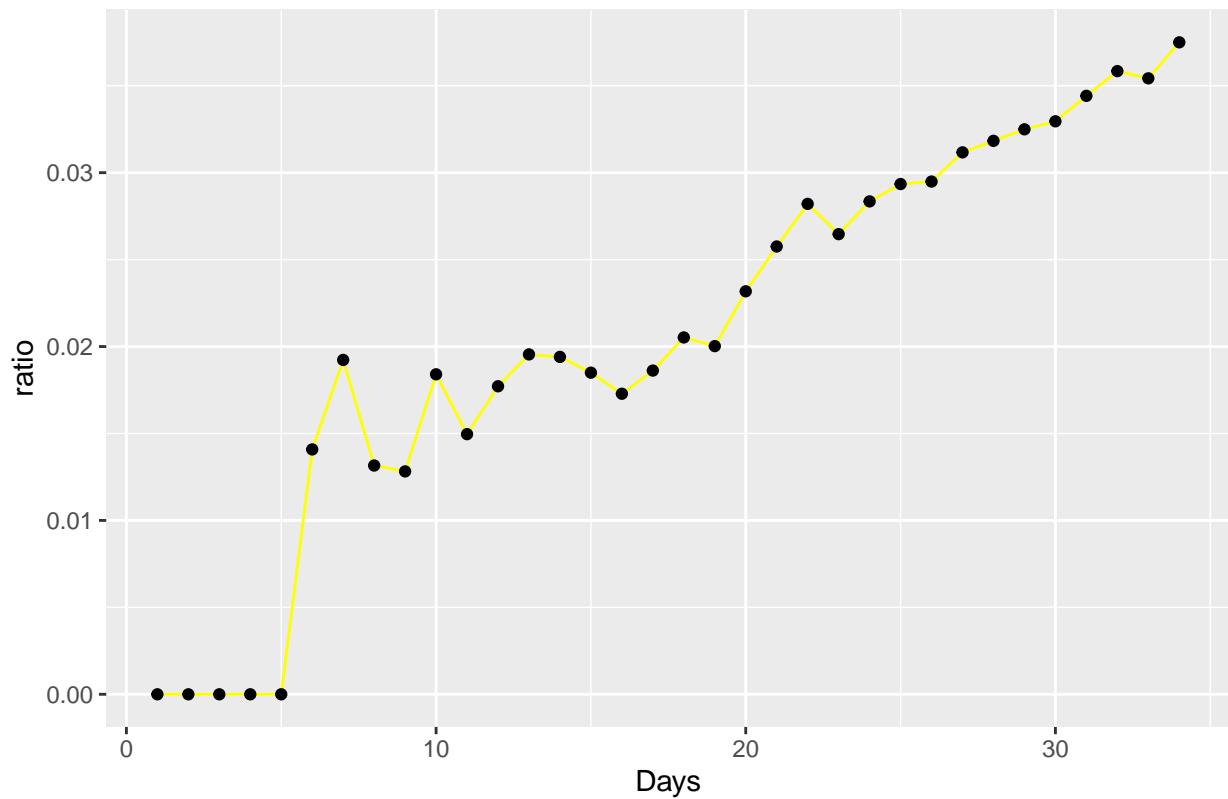
### Arizona: Daily Death Rate



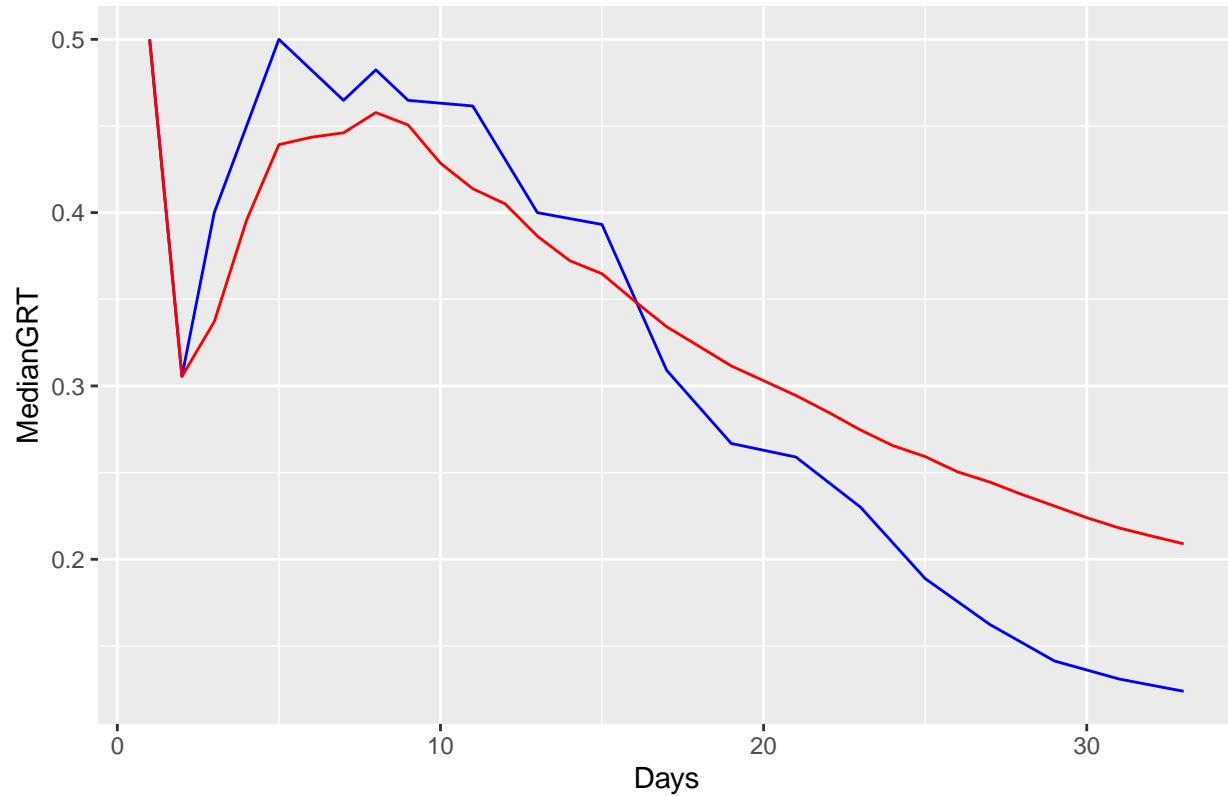
Arizona:newCases(Orange)



### Arizona: TotalDeaths/TotalCases



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

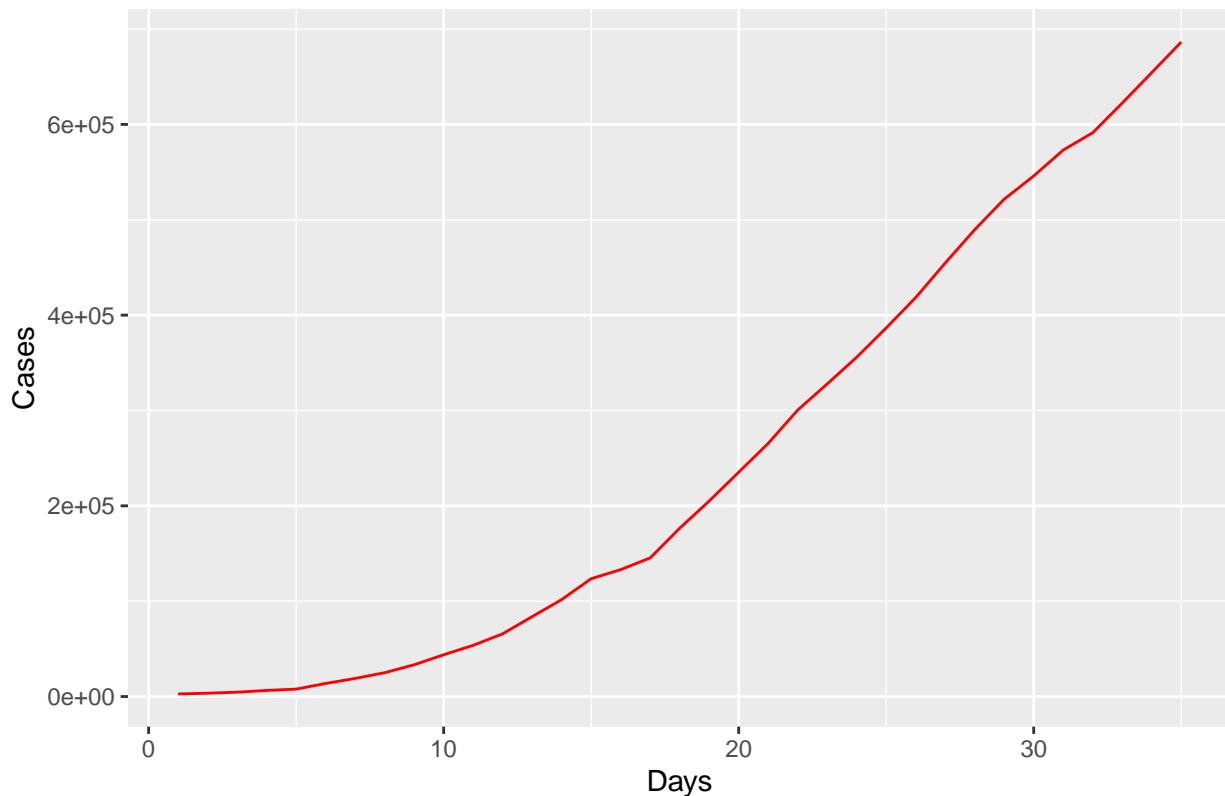


### Results:

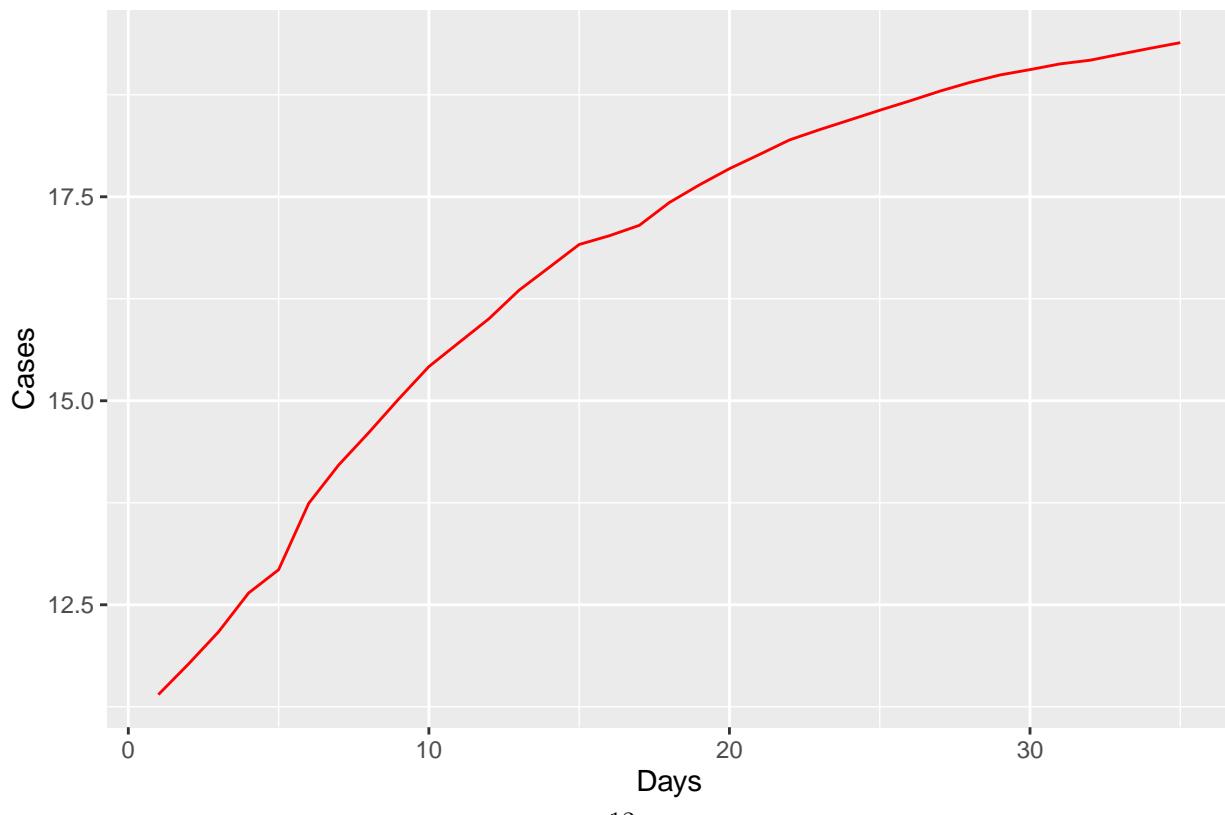
- Tomorrows predicted case number is between **4797.6025035** and **5448.5644659** cases.
- Current doubling rate is **11 days**
- Mean doubling rate, i.e number of cases doubles every **3 days**.
- Median doubling rate, i.e number of cases doubles every **6 days**.
- Latest Observed Growth Rate **6.4478035** percent.
- Mean Growth Rate: **20.8911574** percent.
- Median Growth Rate: **12.3823675** percent.
- Standard deviation: +/- **18.0558594**.

## US Corona Dashboard

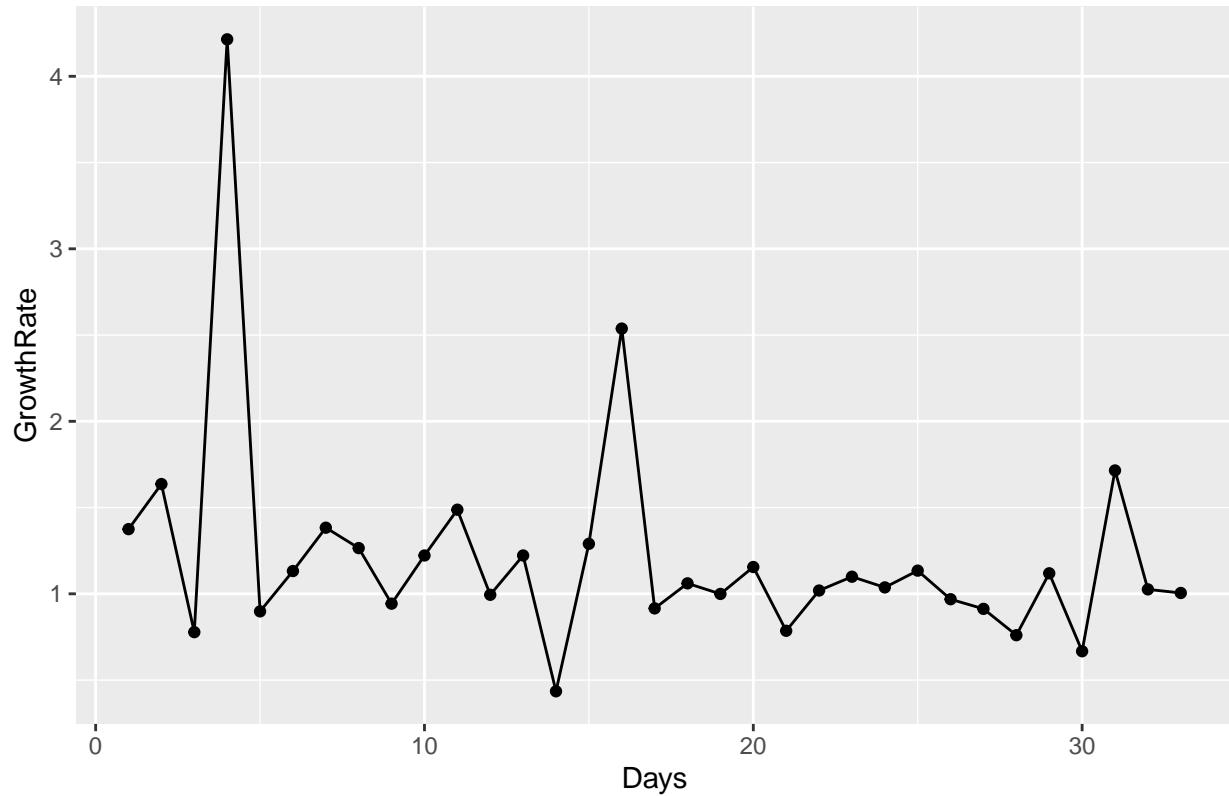
### US: Daily Cases



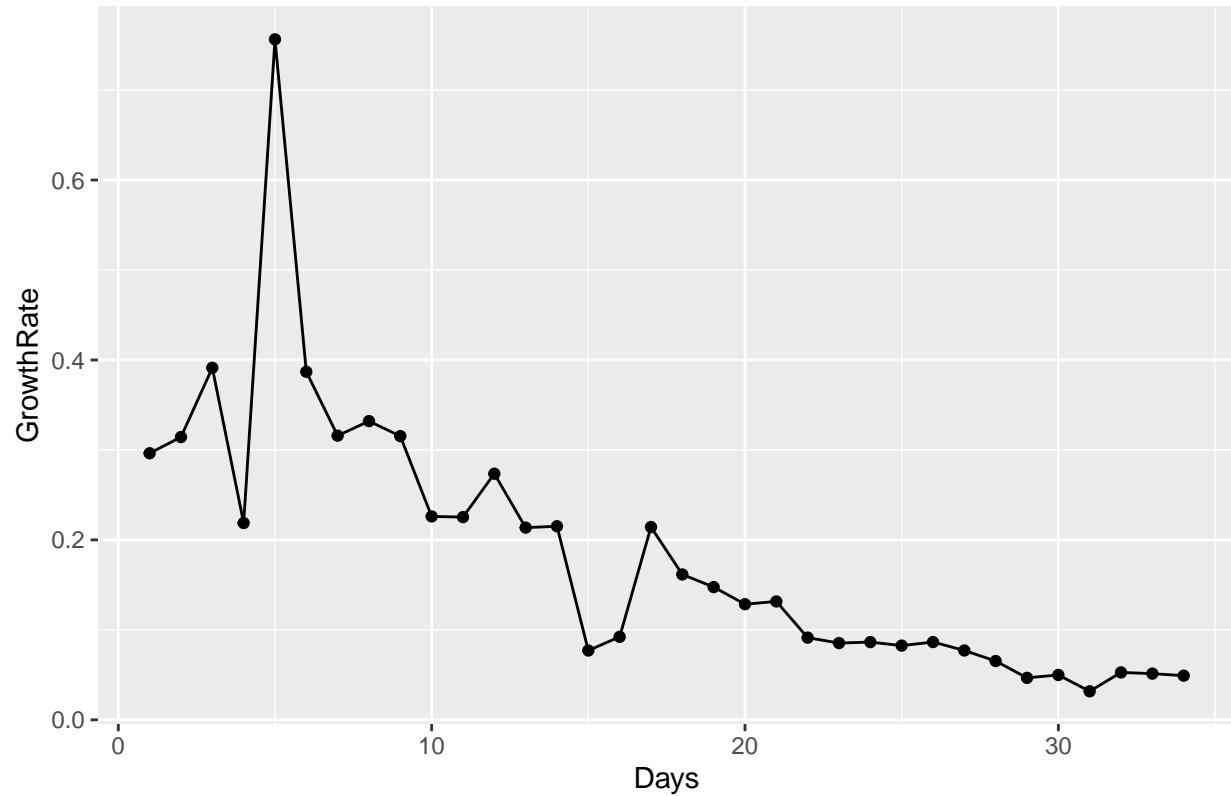
### US: Daily Cases



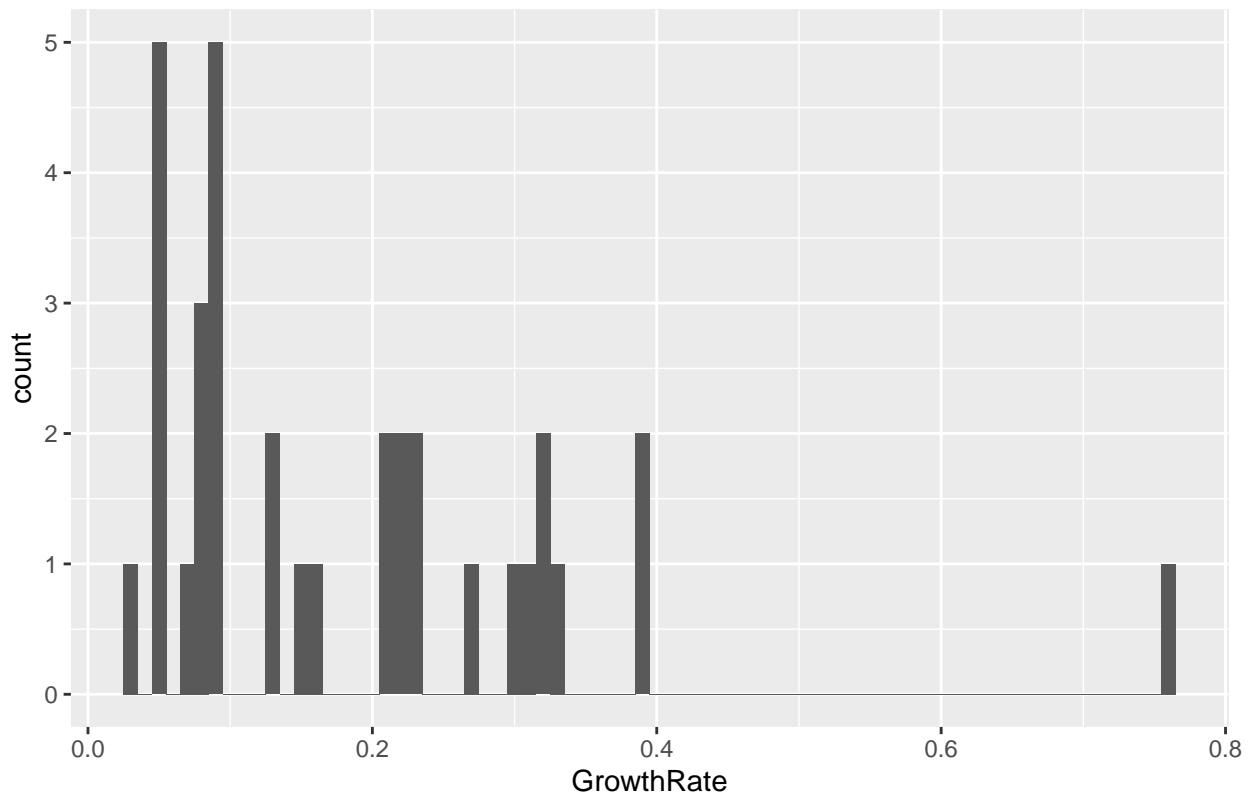
### US: Rate of change in Growth Rate



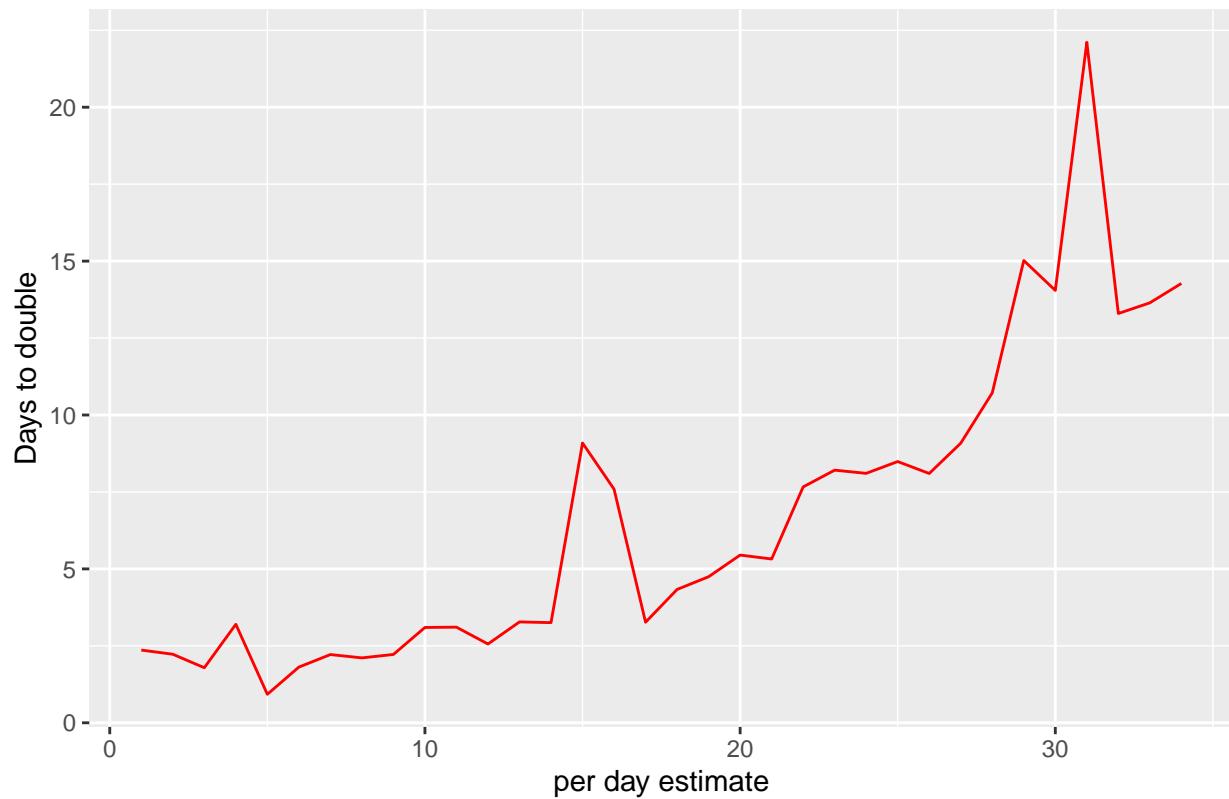
## US: Growth Rate



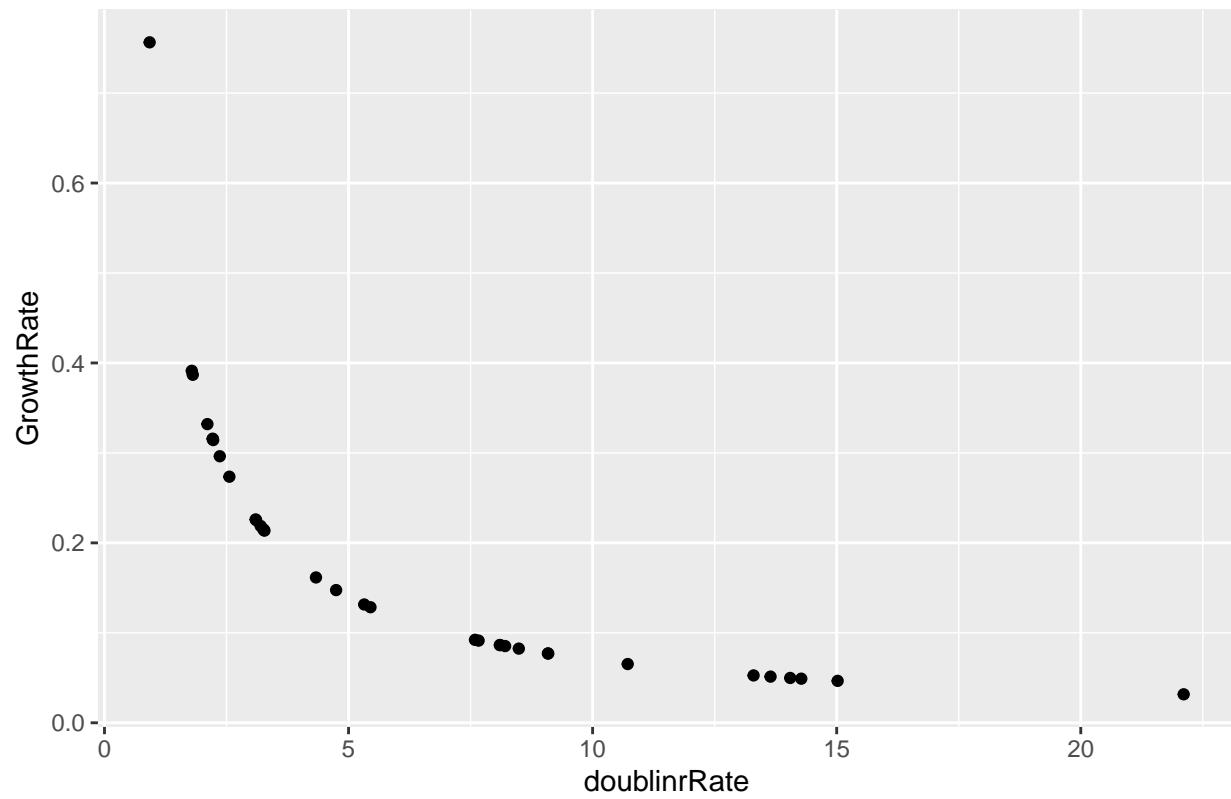
Histogram of GrowthRate



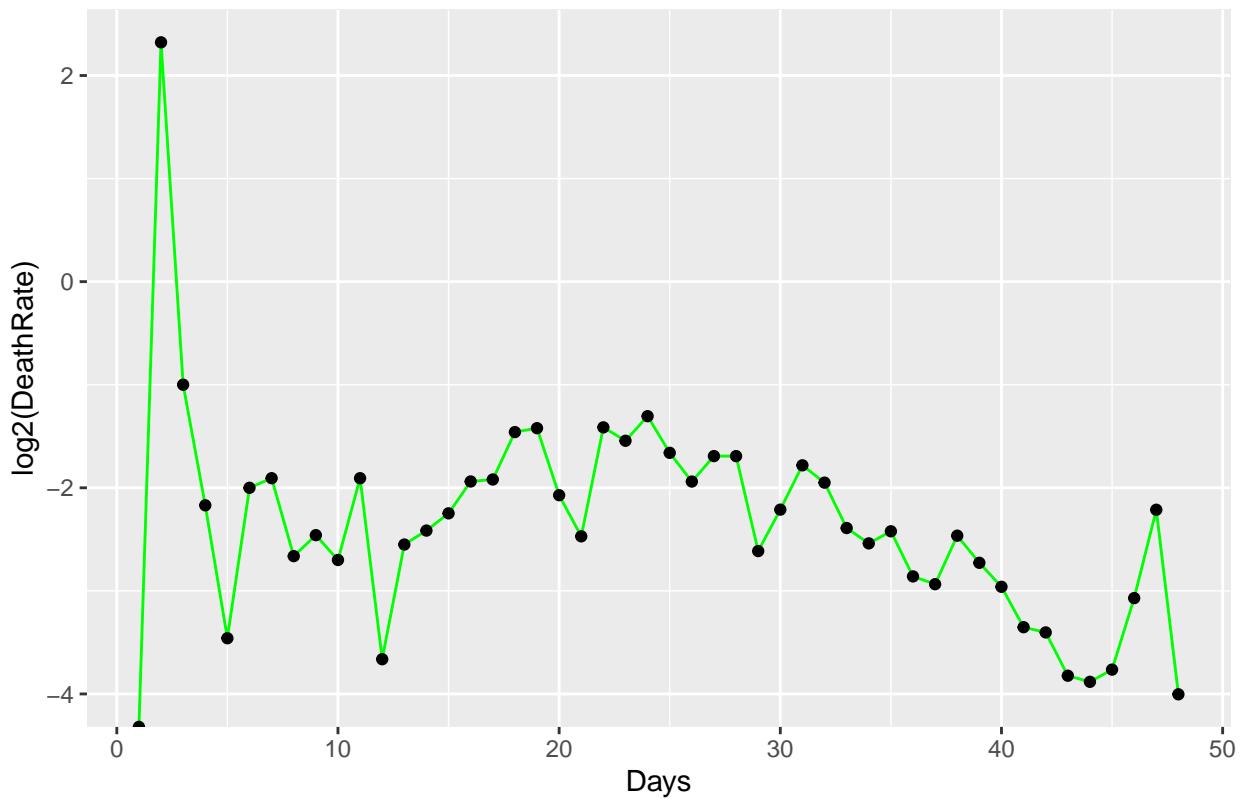
## Doubling Rate in days



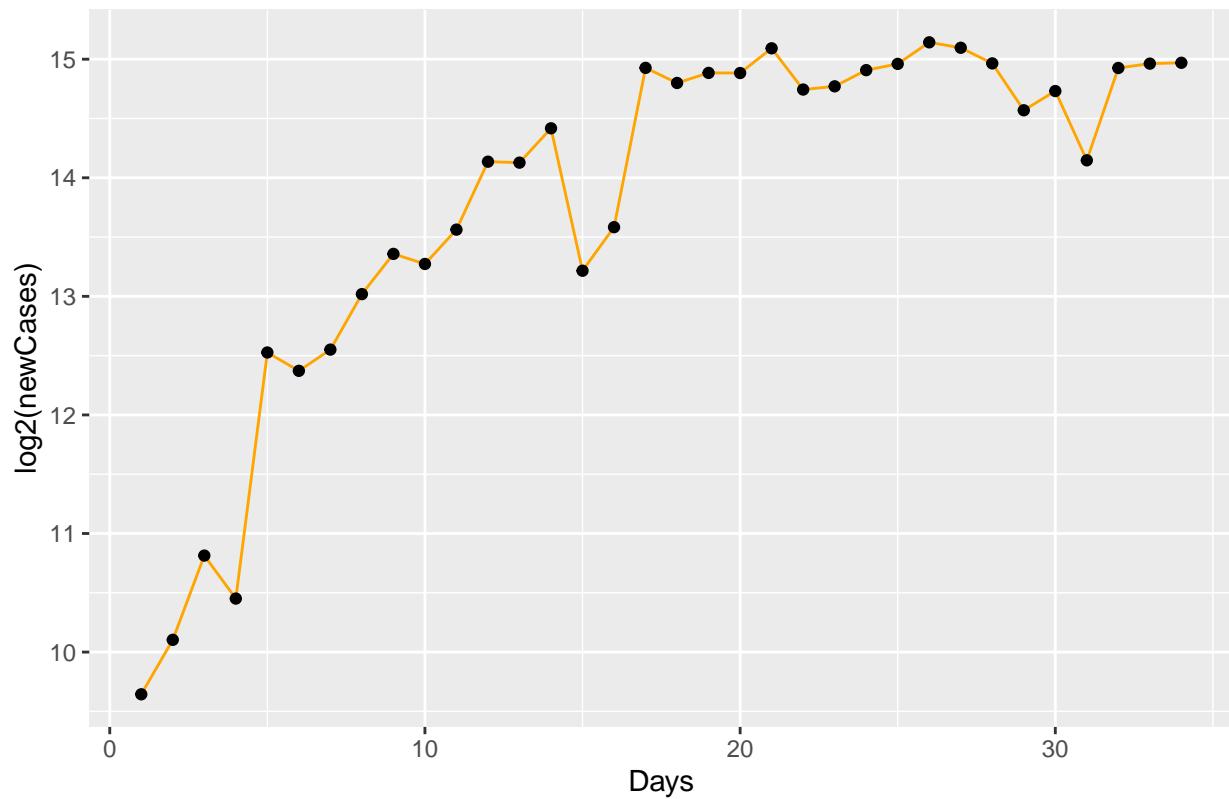
## Doubling Rate vs Growth Rate



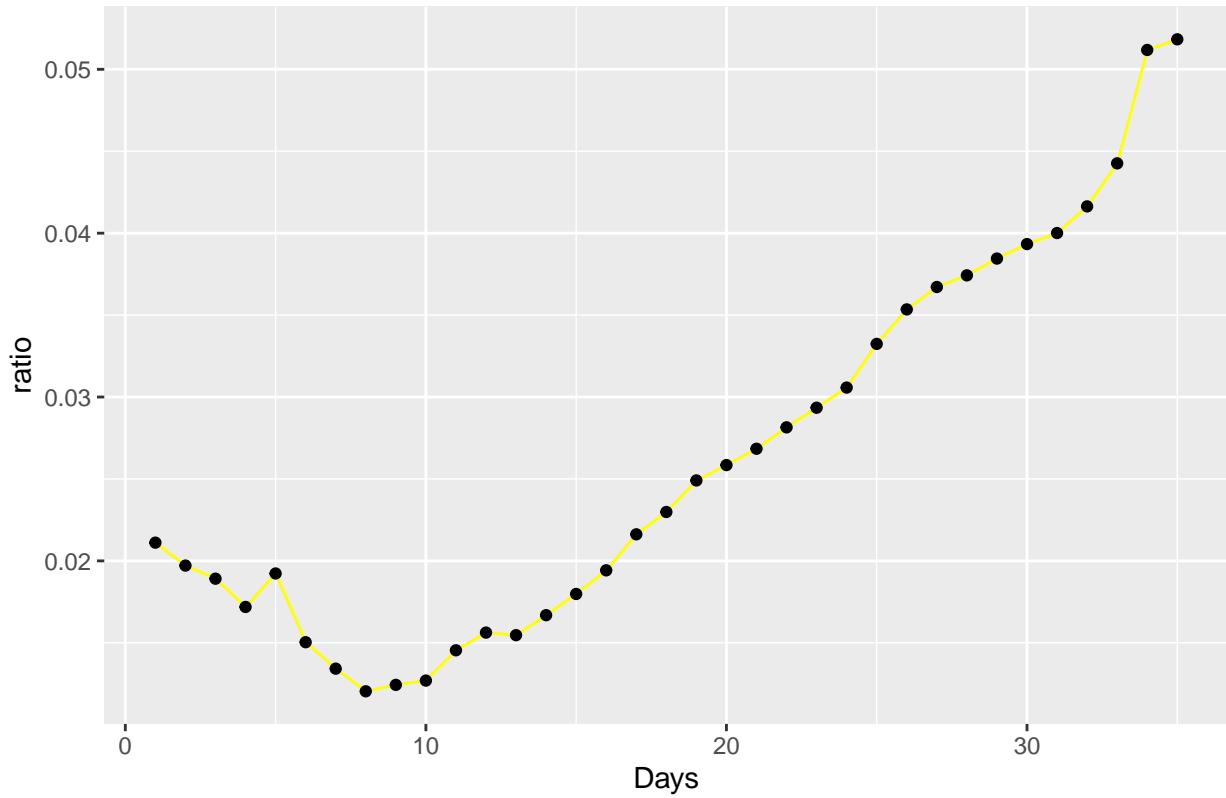
## US: Daily Death Rate



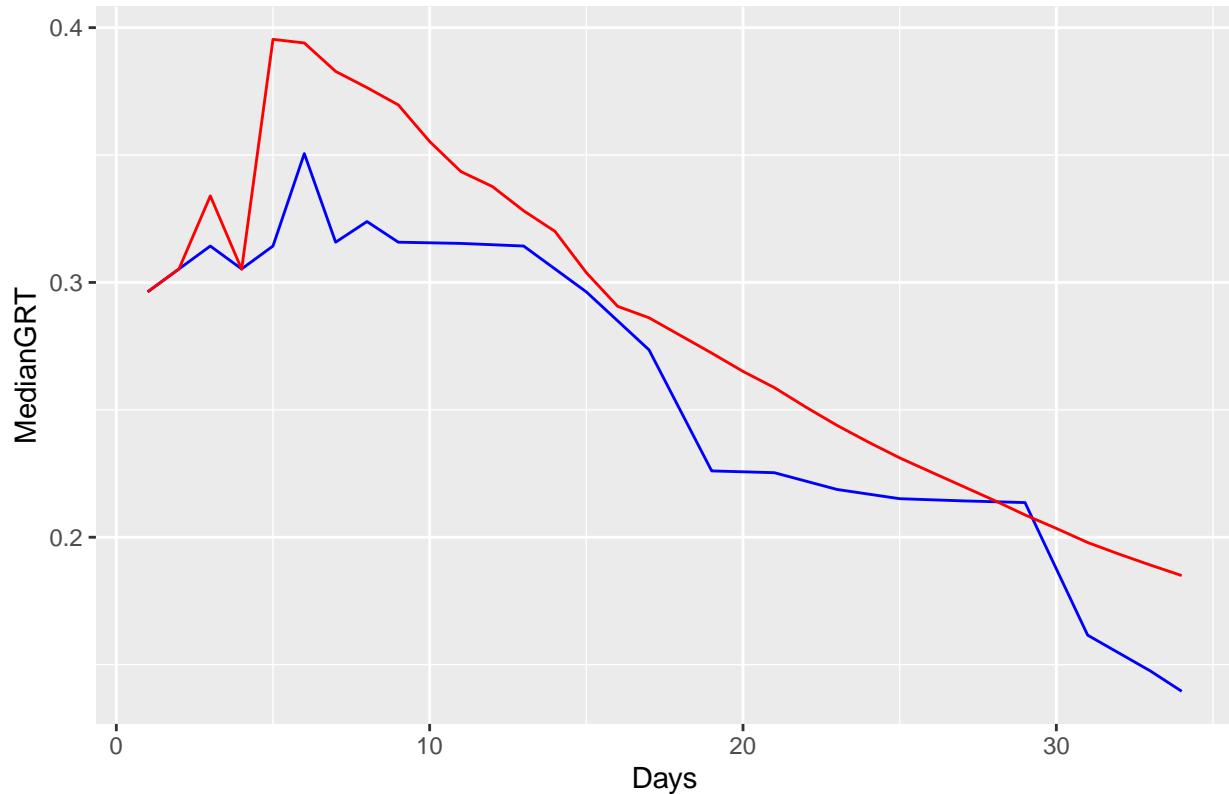
US:newCases(Orange)



### US: TotalDeaths/TotalCases



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

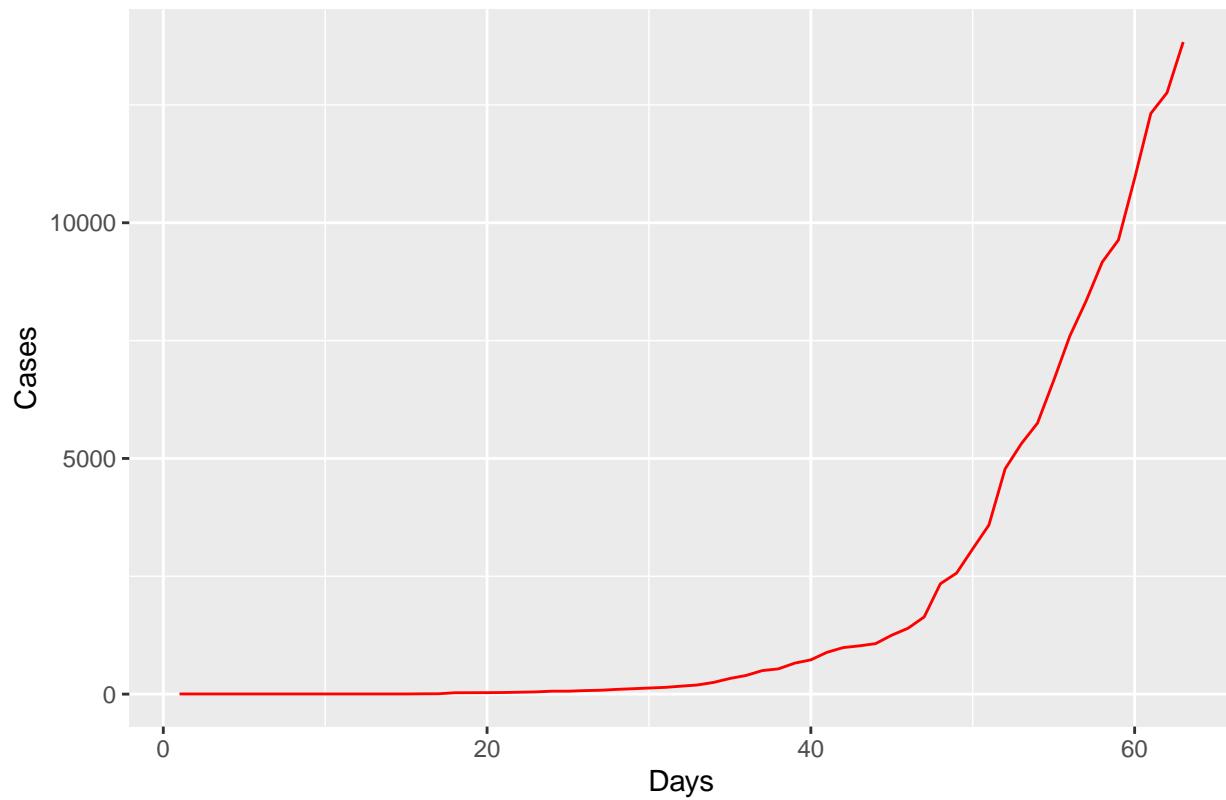


#### Results:

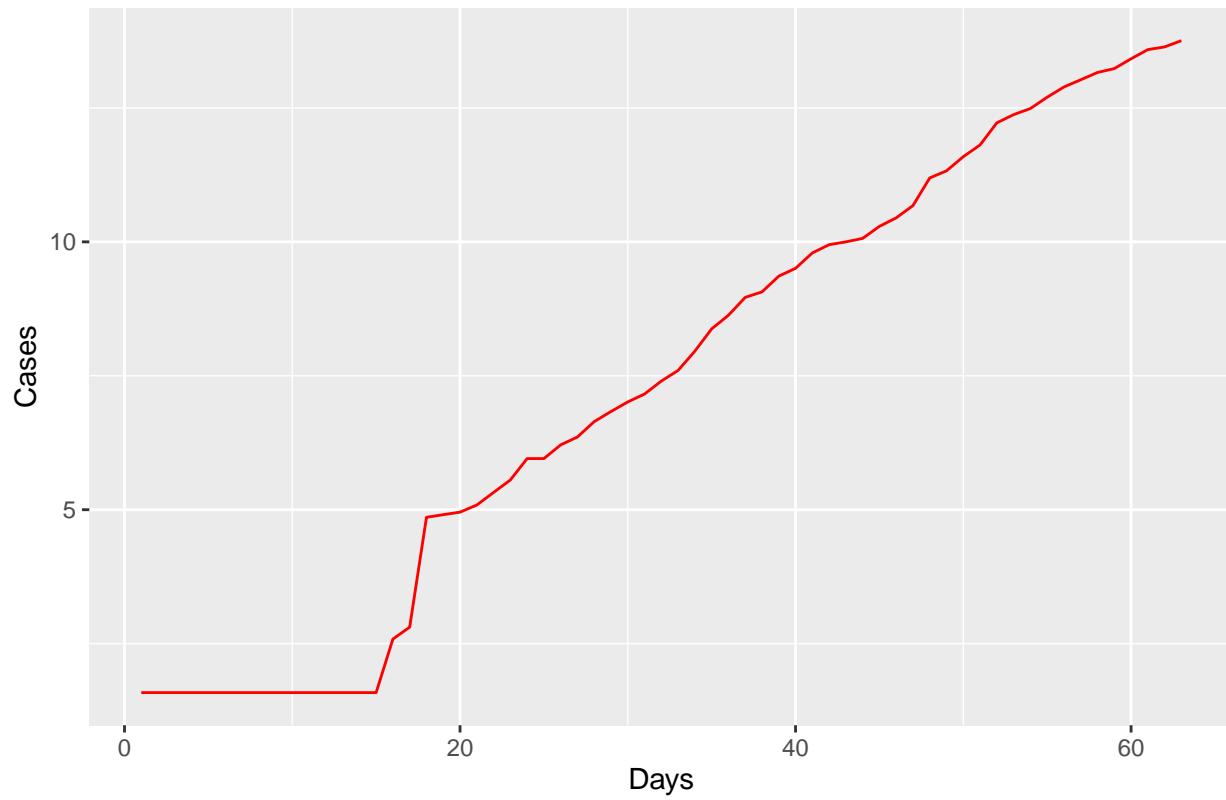
- Tomorrows predicted case number is between  $7.2009255 \times 10^5$  and  $8.1339187 \times 10^5$  cases.
- Current doubling rate is **14 days**
- Mean doubling rate, i.e number of cases doubles every **4 days**.
- Median doubling rate, i.e number of cases doubles every **5 days**.
- Latest Observed Growth Rate **4.9038501** percent.
- Mean Growth Rate: **18.495795** percent.
- Median Growth Rate: **13.9530664** percent.
- Standard deviation: +/- **14.8450099**.

## India Corona Dashboard

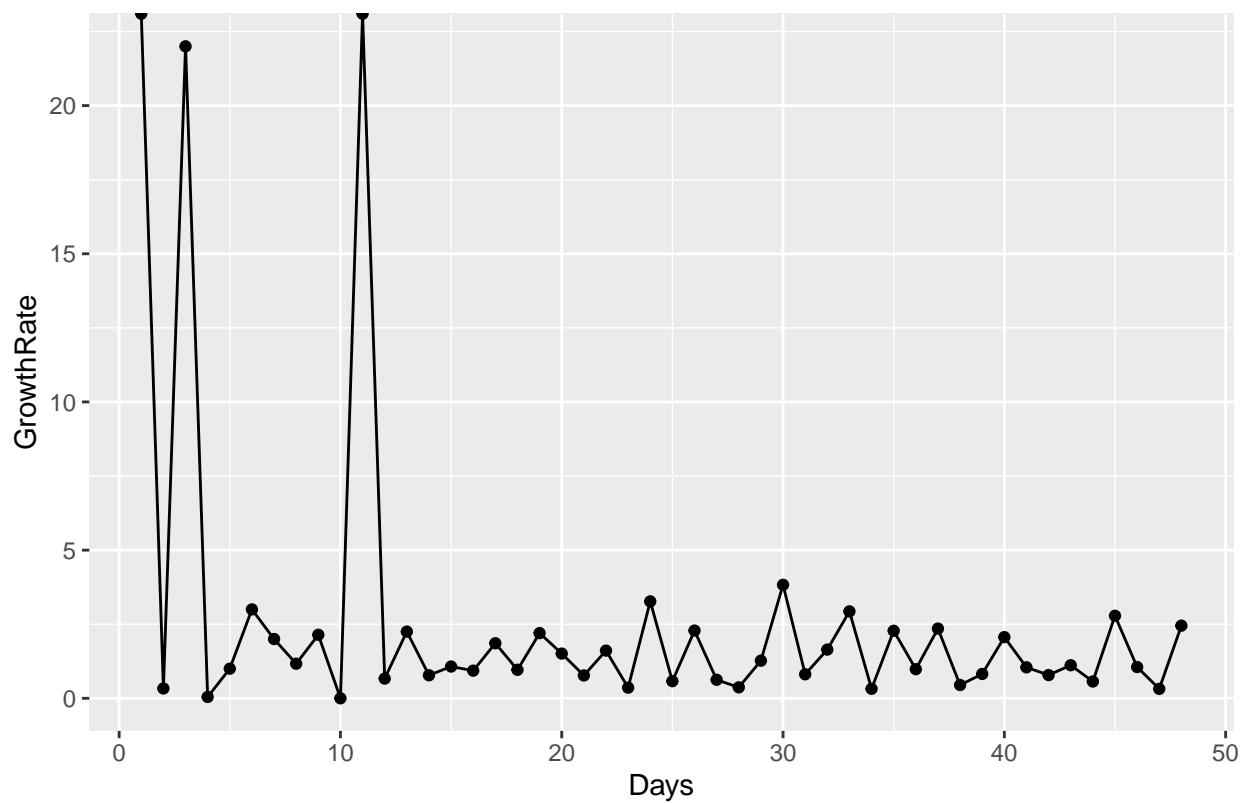
### India: Daily Cases



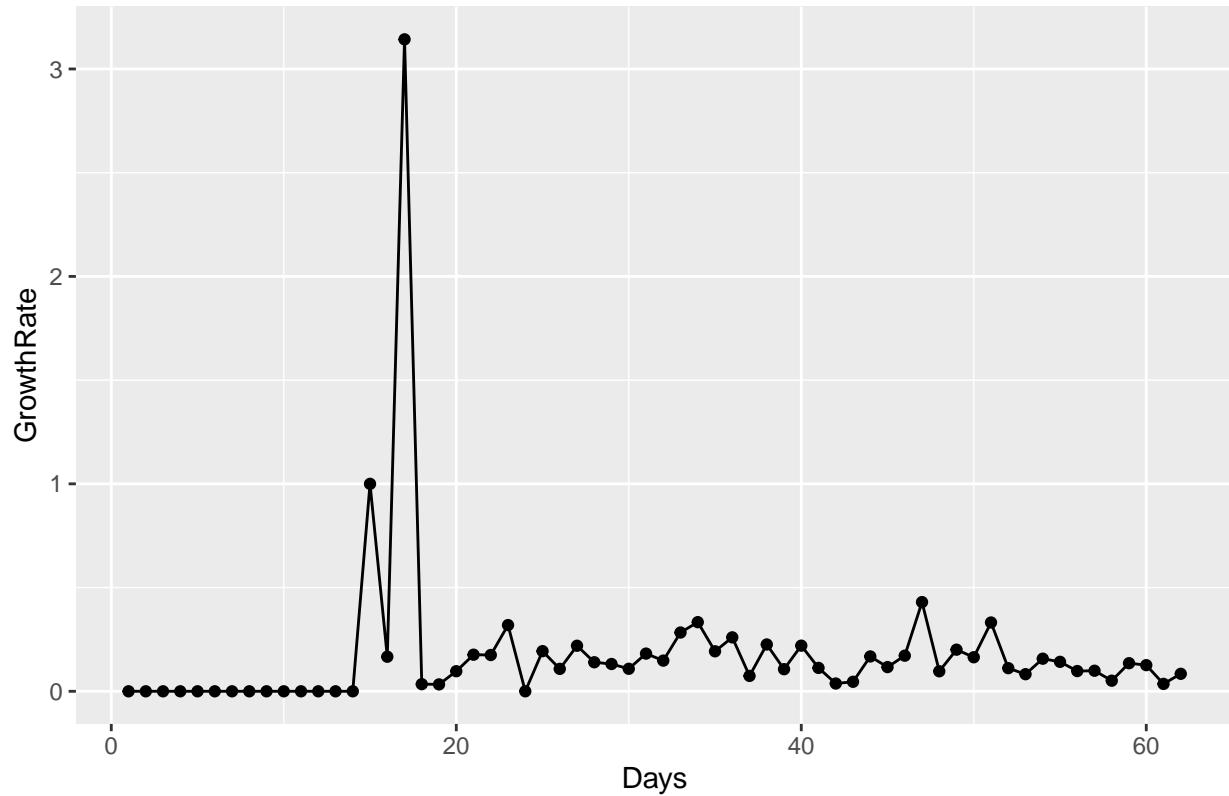
### India: Daily Cases



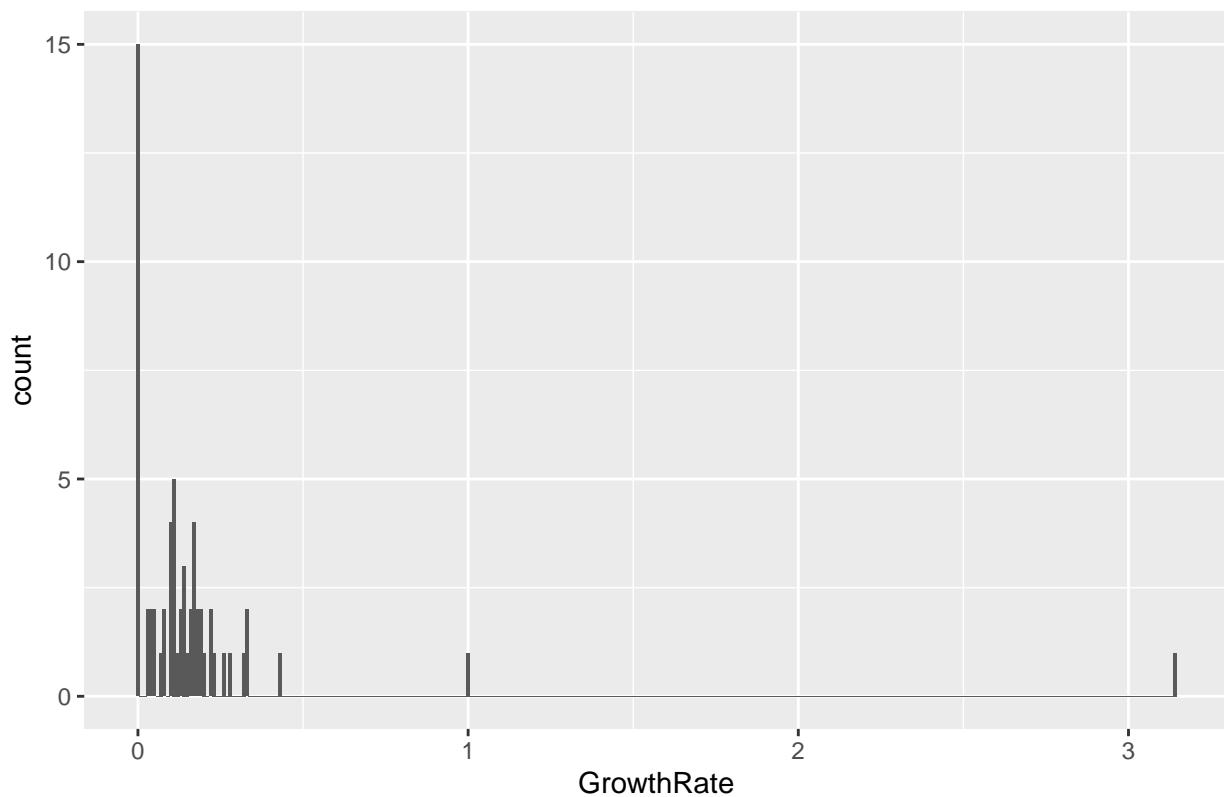
### US: Rate of change in Growth Rate



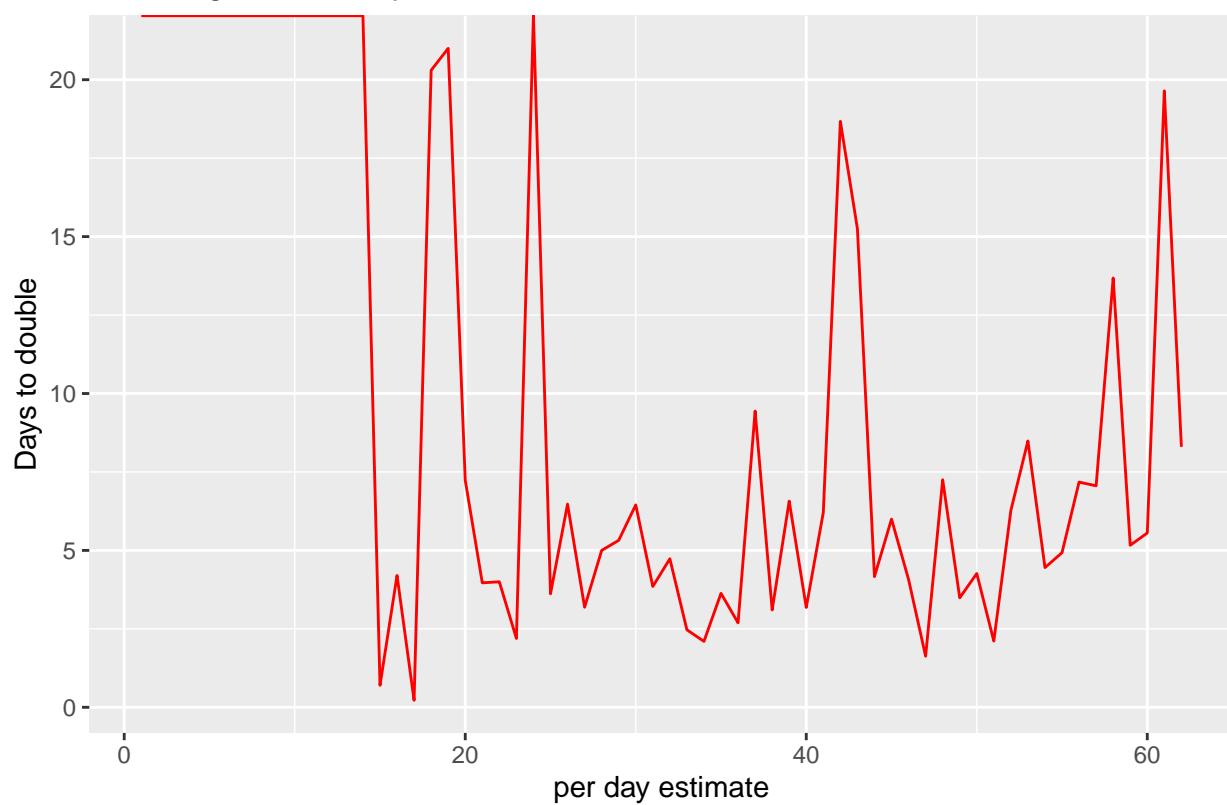
## India: Growth Rate



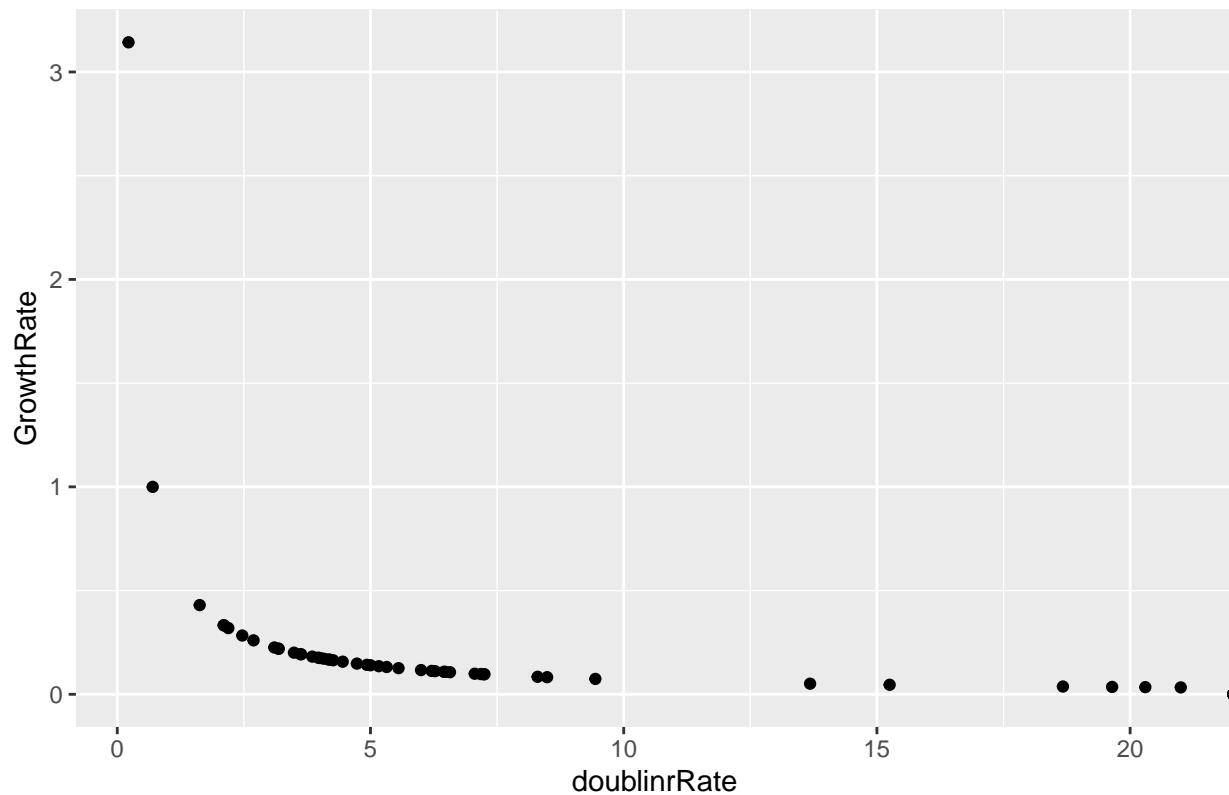
Histogram of GrowthRate



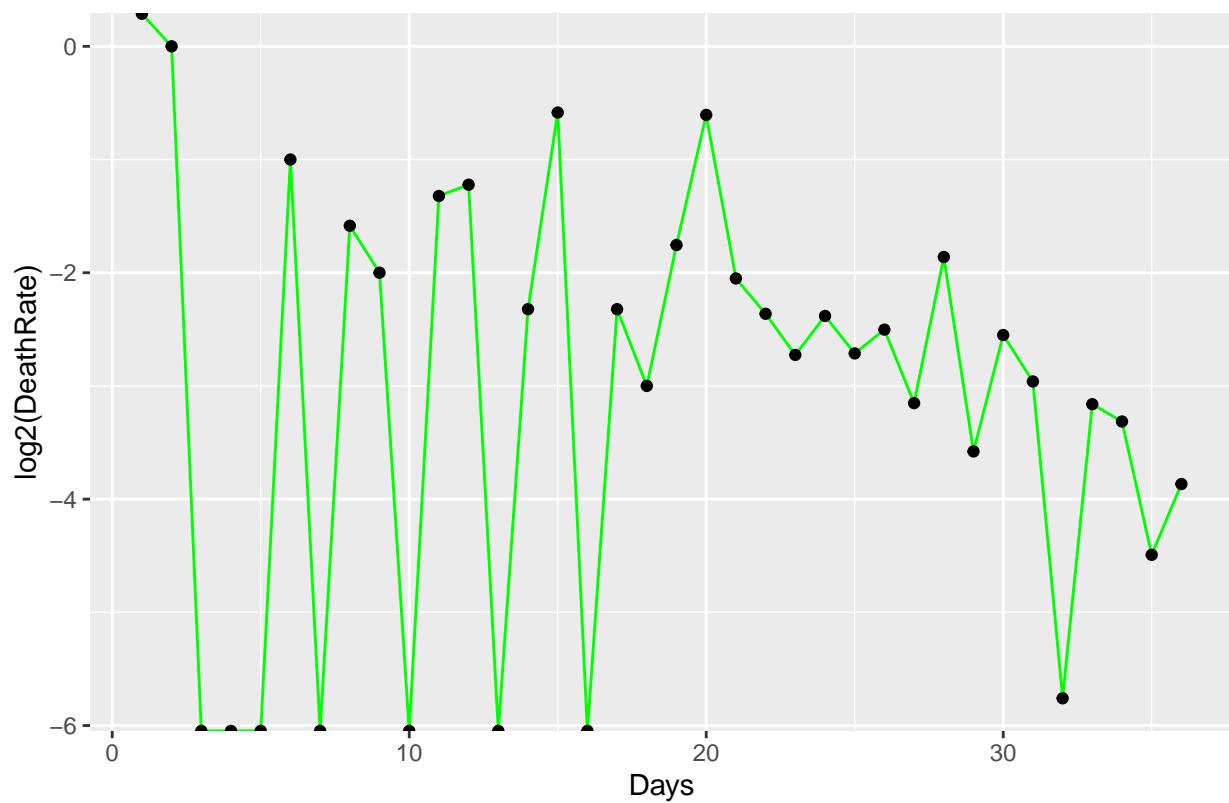
### Doubling Rate in days



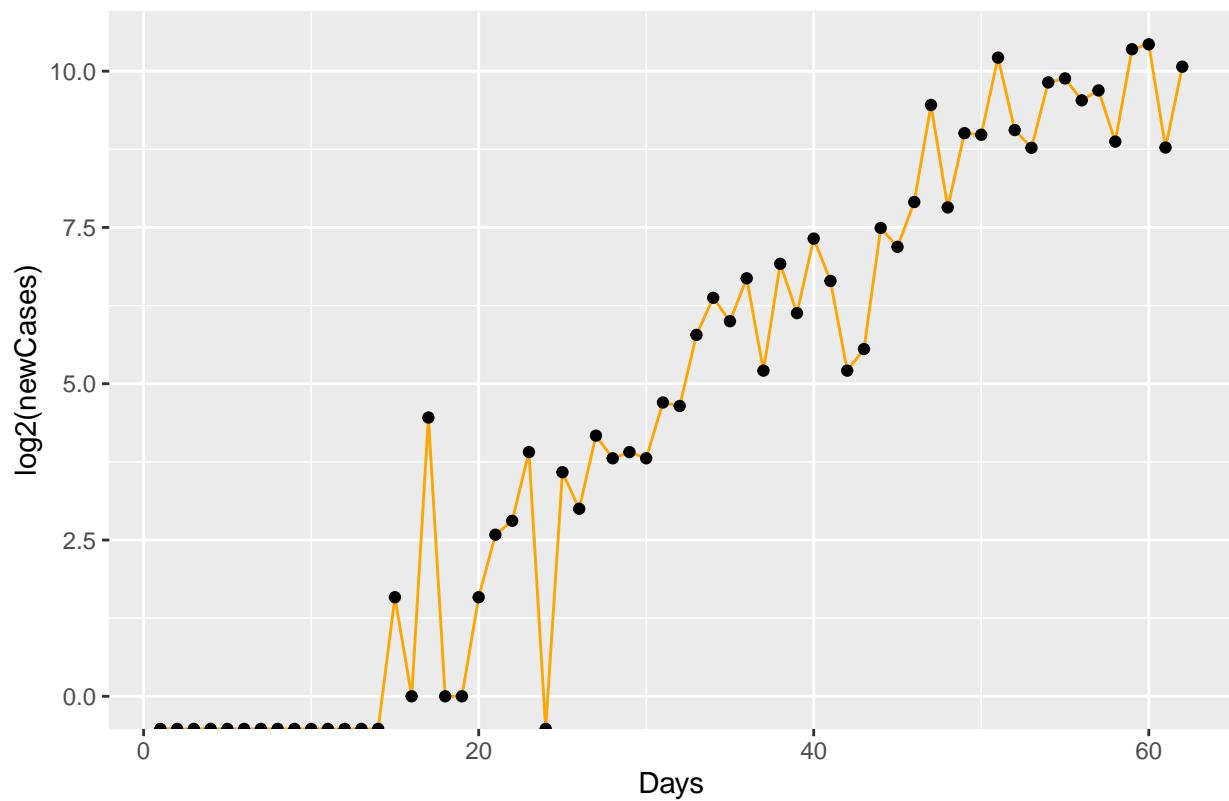
Doubling Rate vs Growth Rate



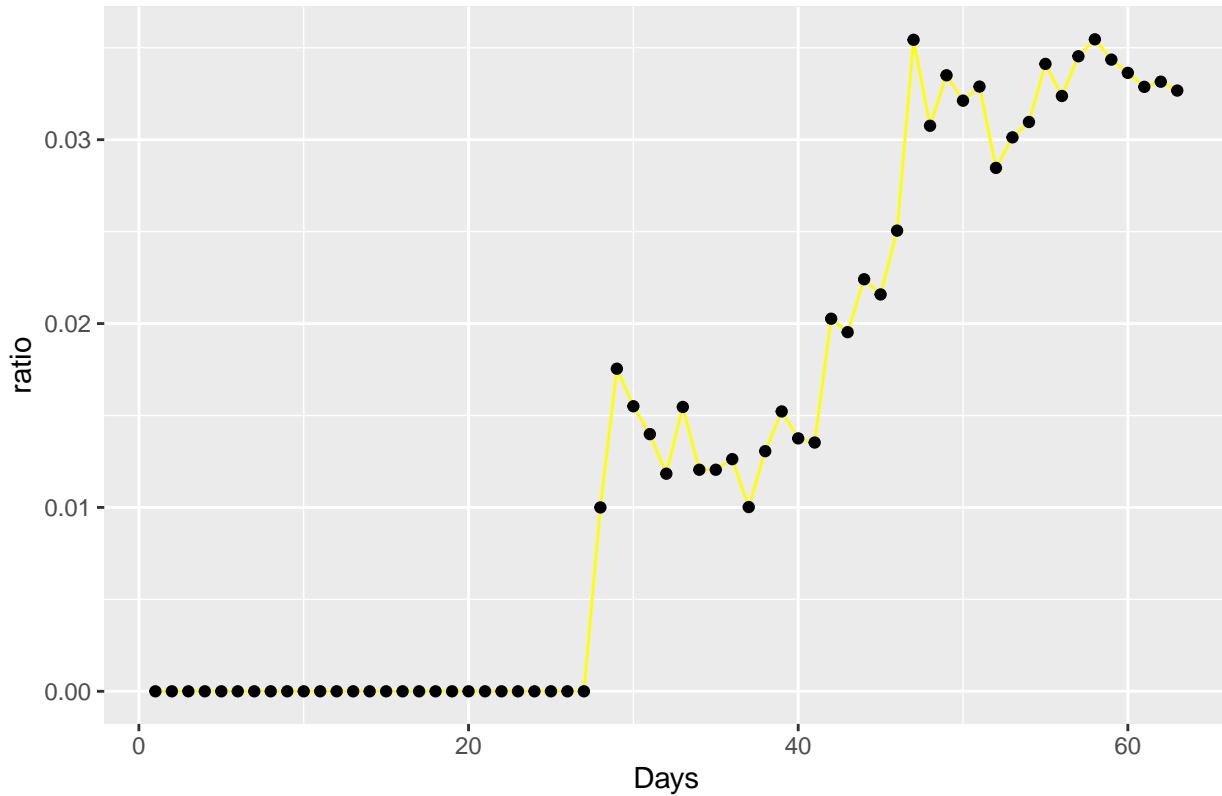
### India: Daily Death Rate



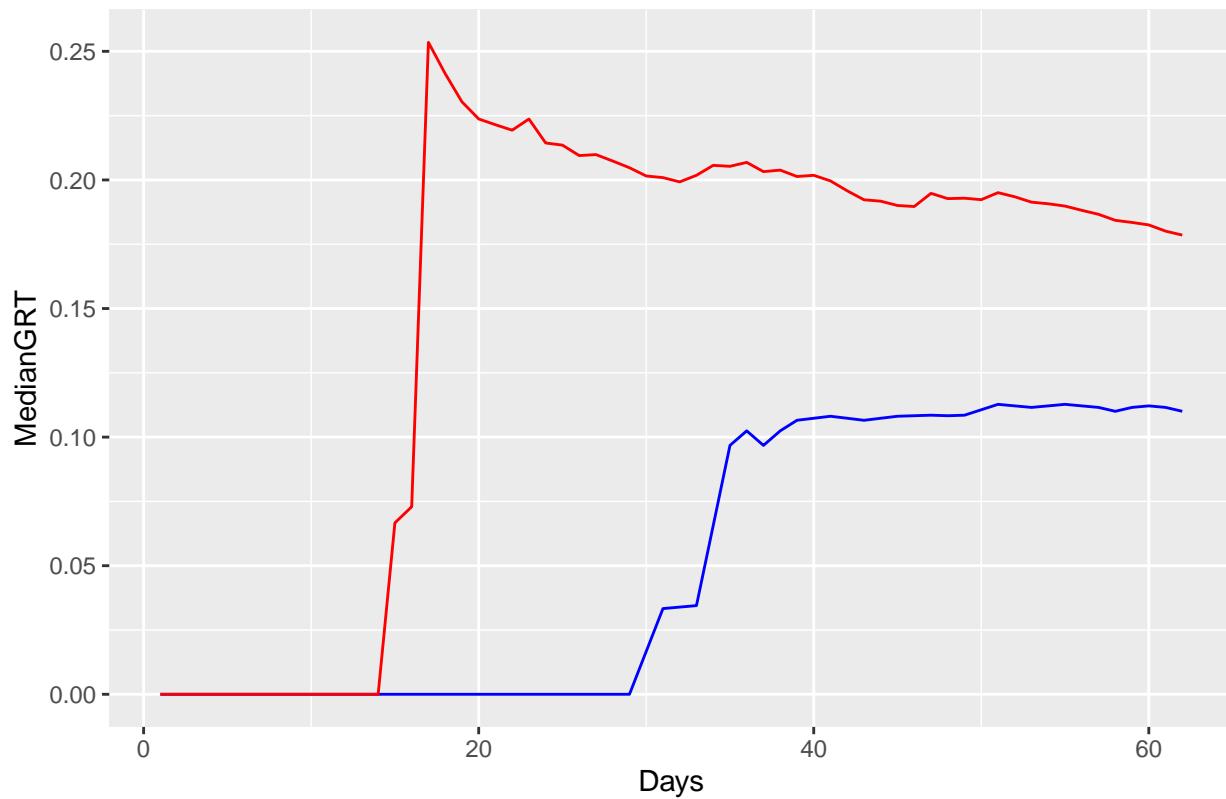
India:newCases(Orange)



### India: TotalDeaths/TotalCases



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



#### Results:

- Tomorrows predicted case number is between  $1.5001742 \times 10^4$  and  $1.6305322 \times 10^4$  cases.
- Current doubling rate is **8 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 **8.4332628** percent.
- Mean Growth Rate: **17.855597** percent.
- Median Growth Rate: **11.0040041** percent.
- Standard deviation: +/- **41.1021479**.