

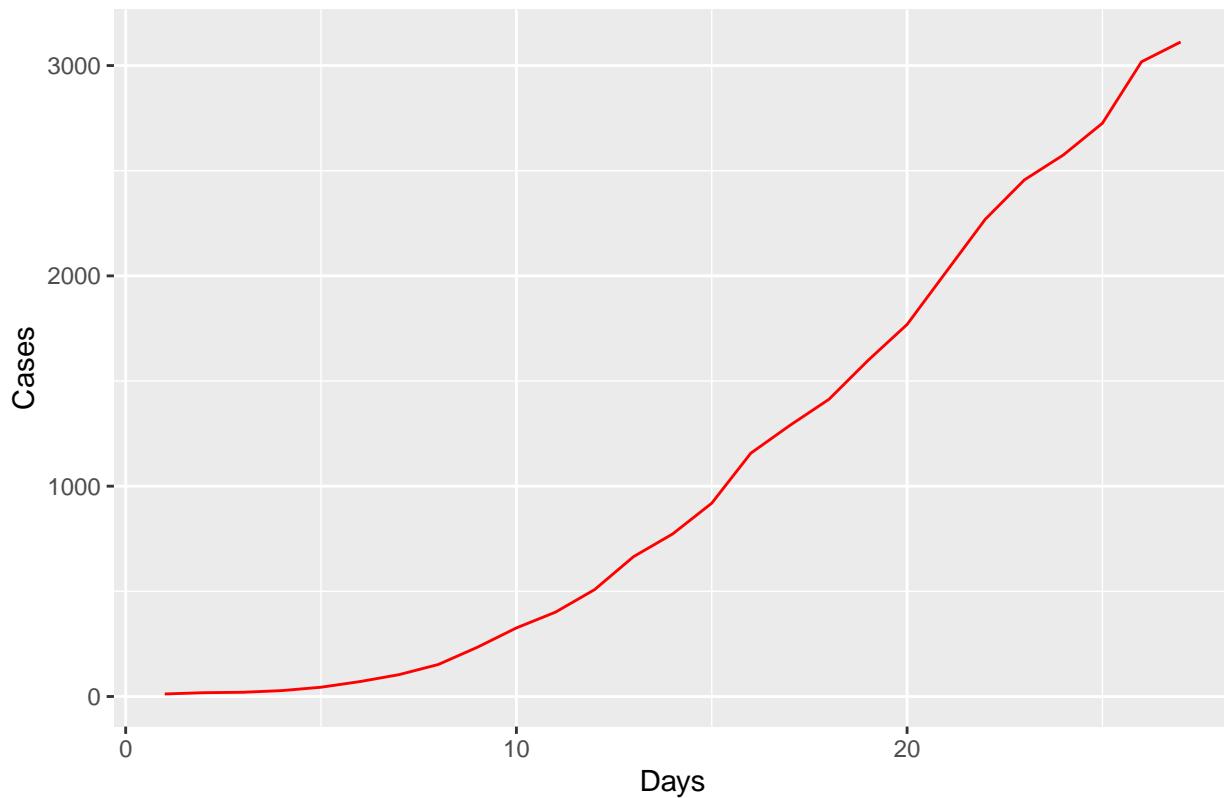
# Arizona/US/India Corona Trends- 10th April 2020 with tomorrow's prediction

Whitchurch Muthumani

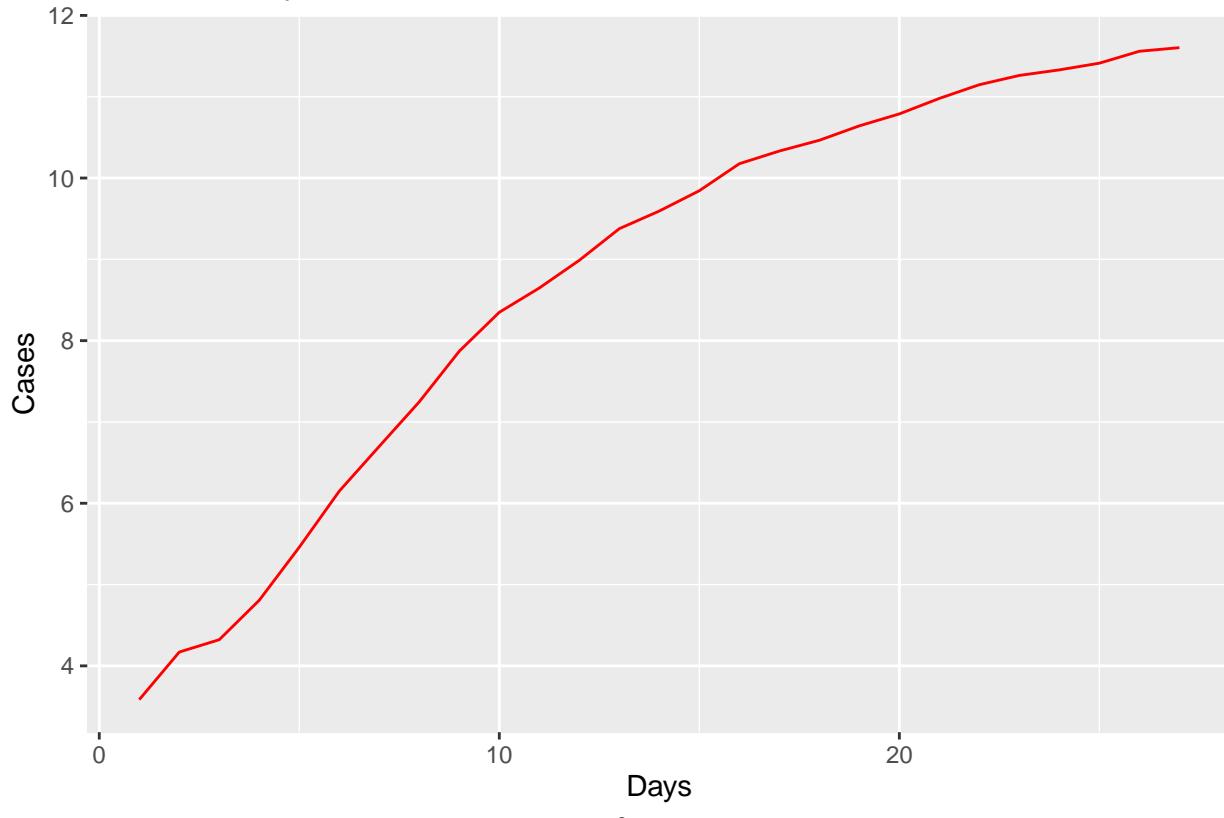
4/10/2020

## Arizona Corona Dashboard

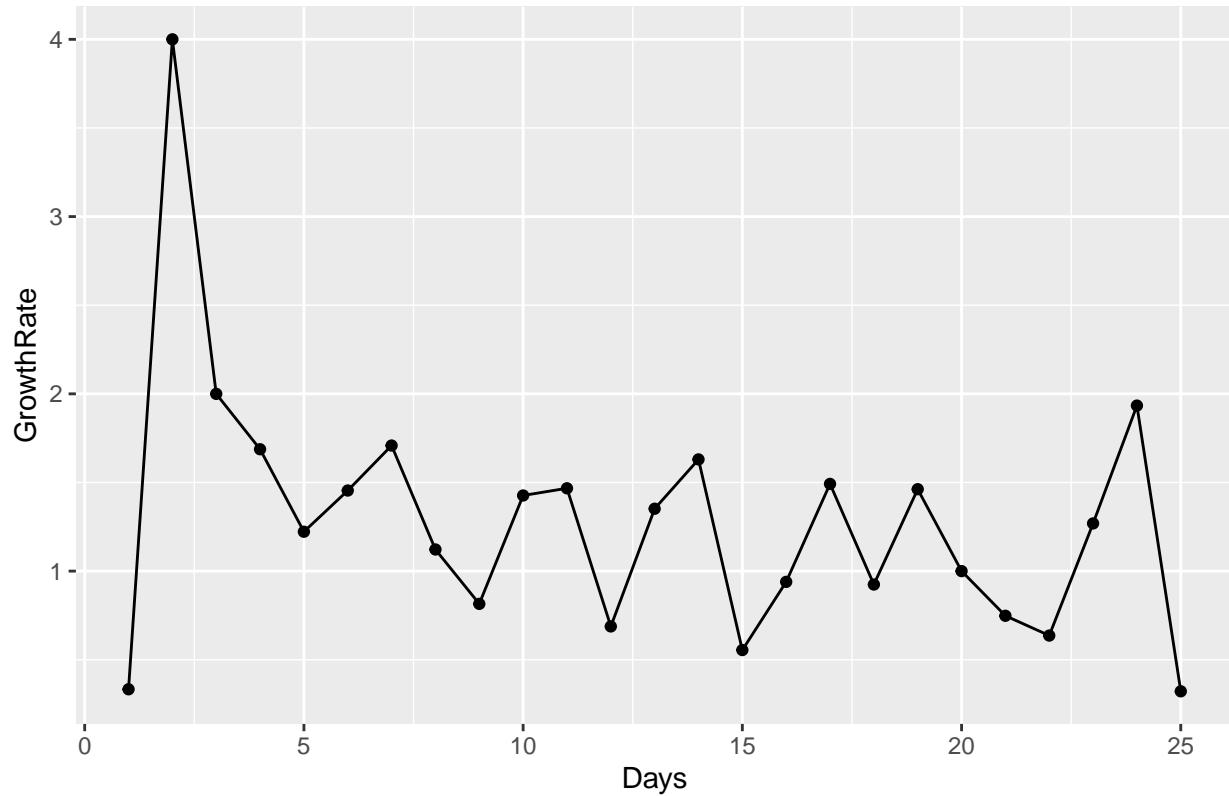
### Arizona: Daily Cases



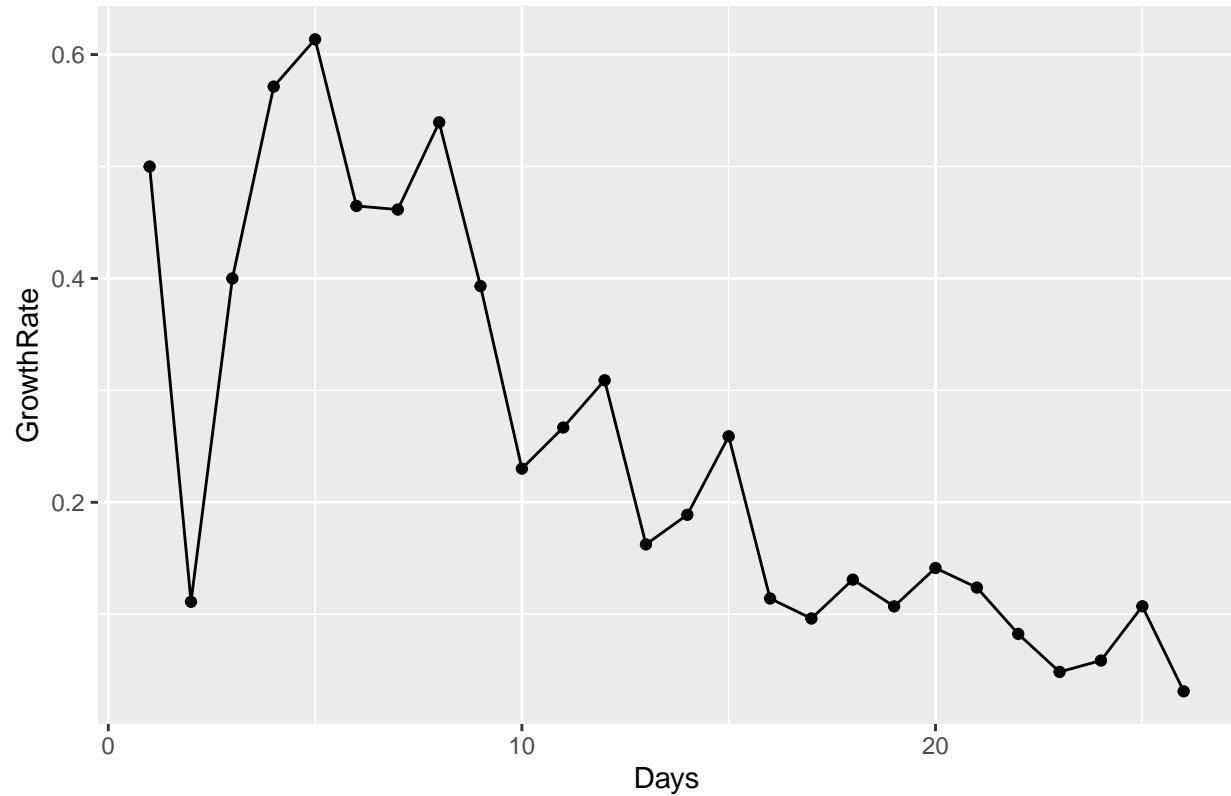
### Arizona: Daily Cases



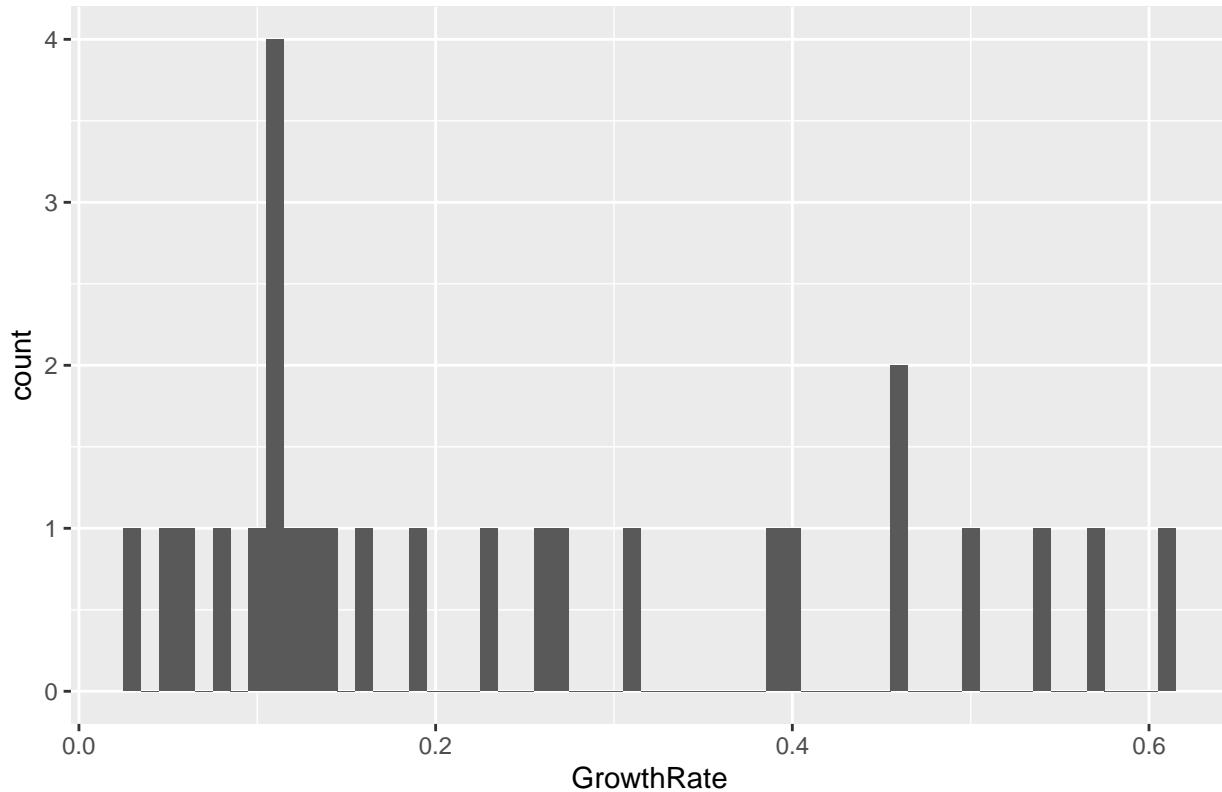
### Arizona: Rate of change in Growth Rate



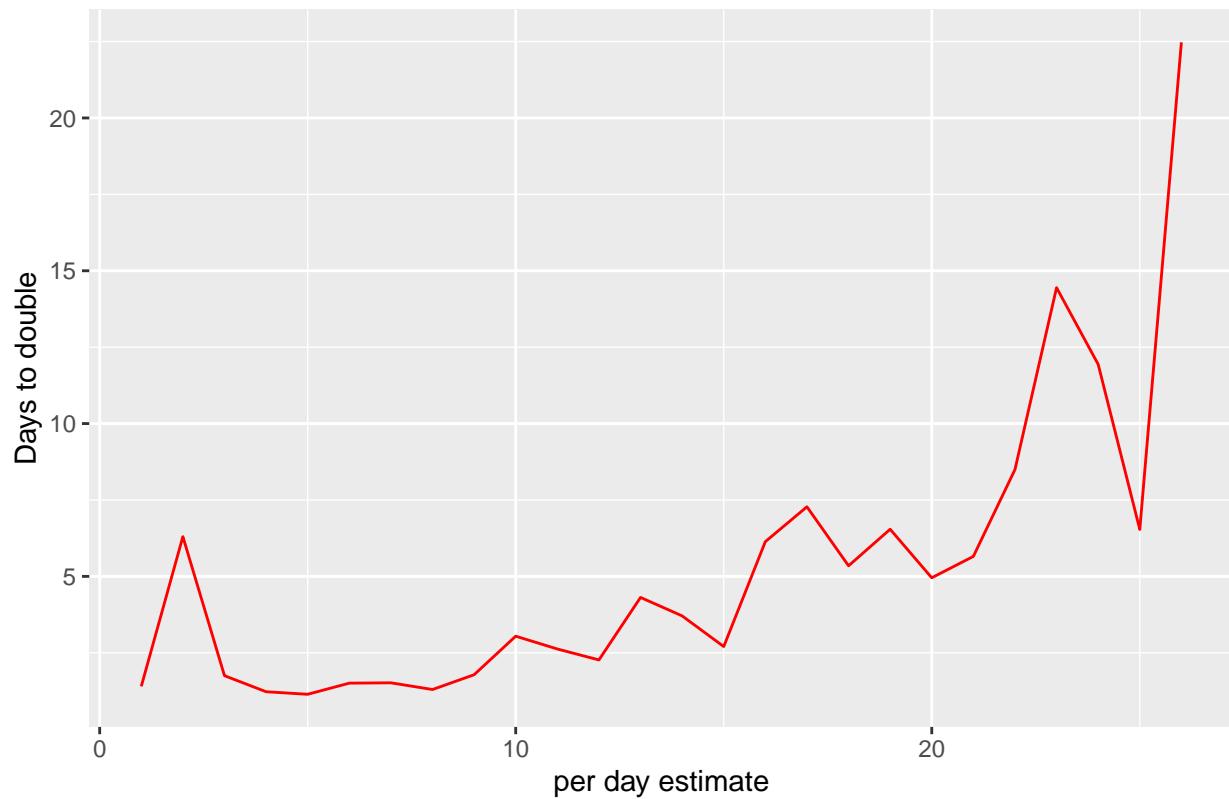
## Arizona: Growth Rate



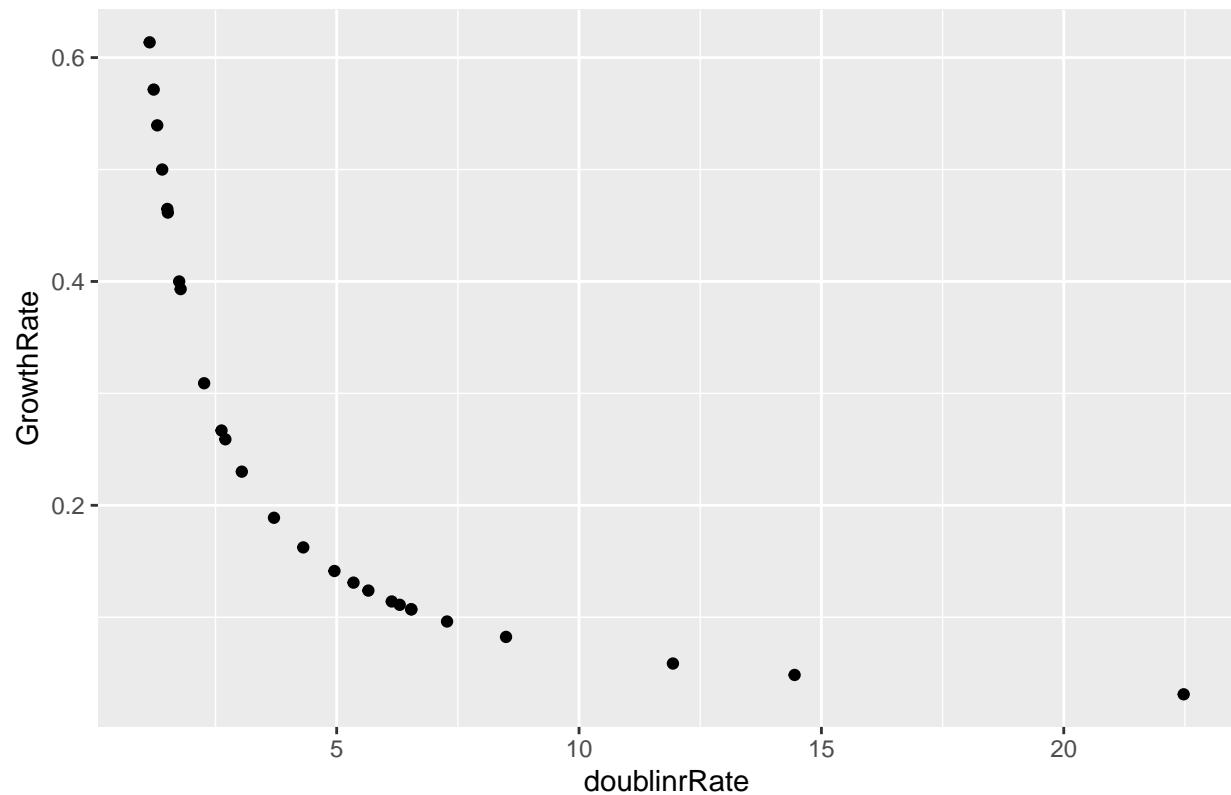
Histogram of GrowthRate



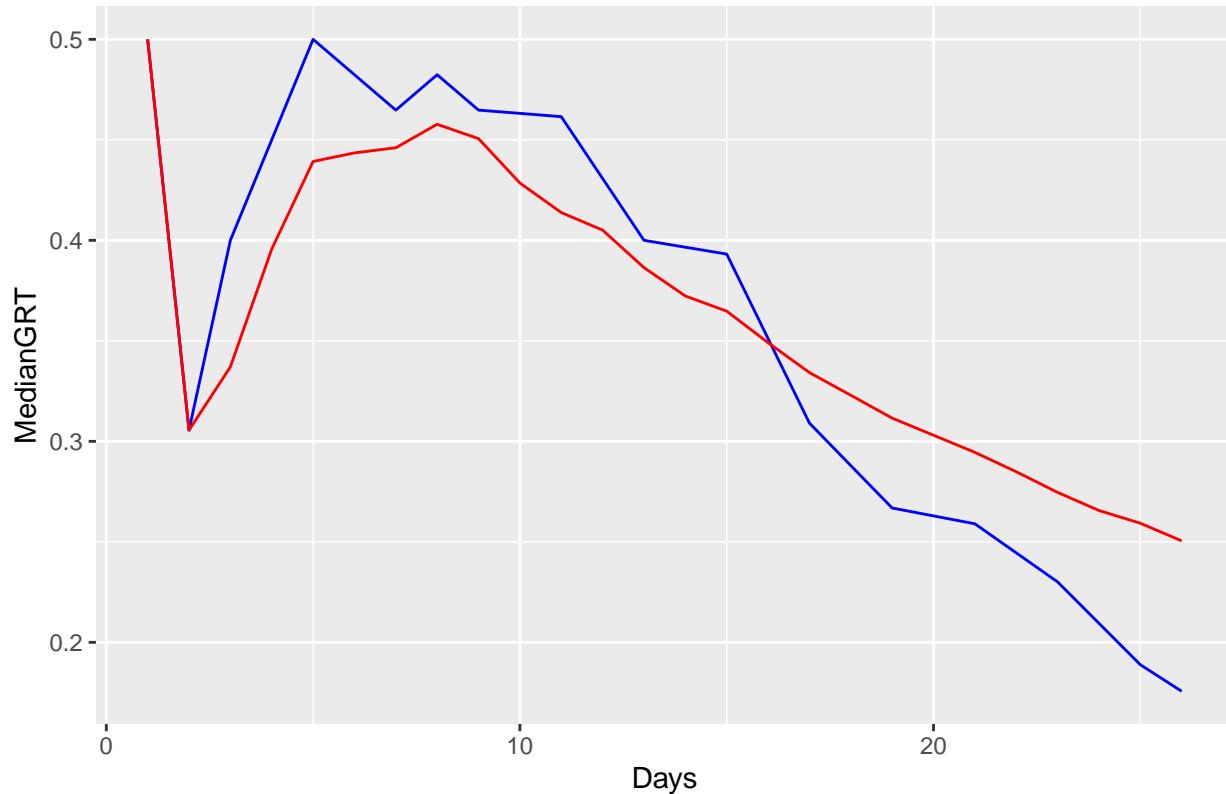
## Doubling Rate in days



## Doubling Rate vs Growth Rate



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

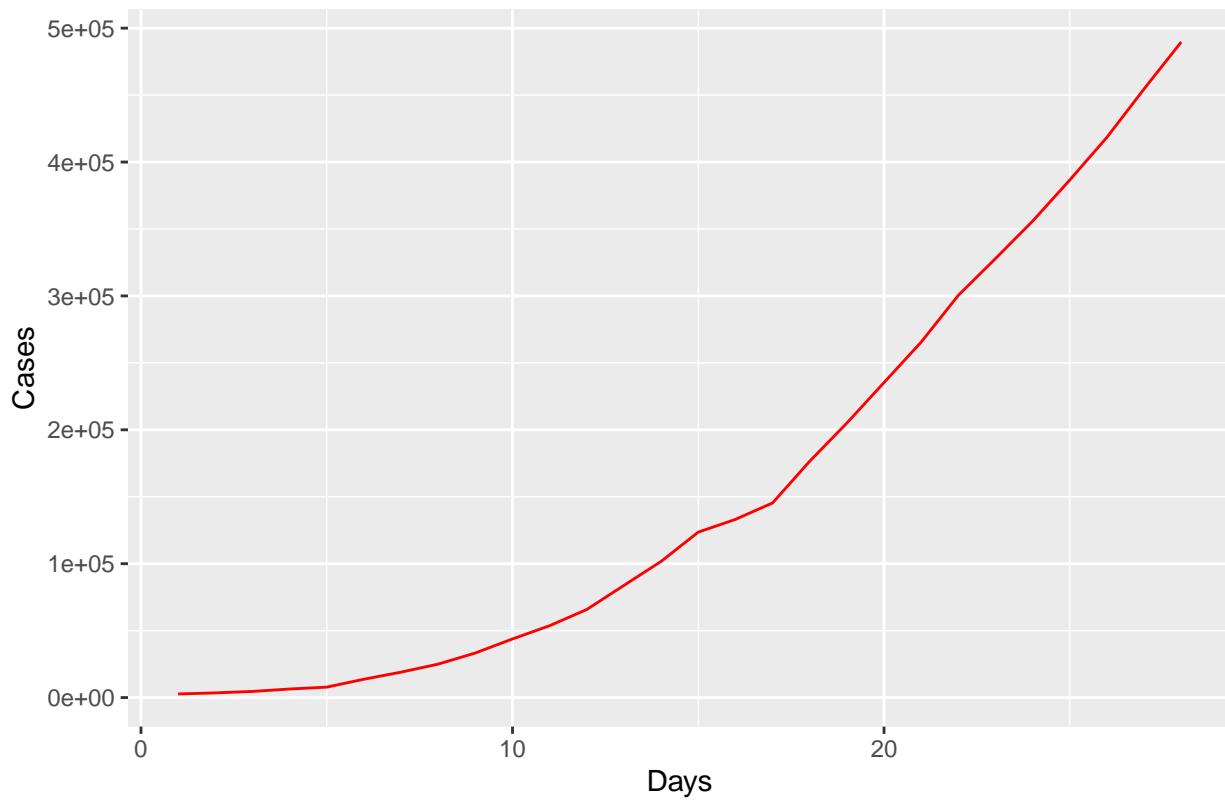


### Results:

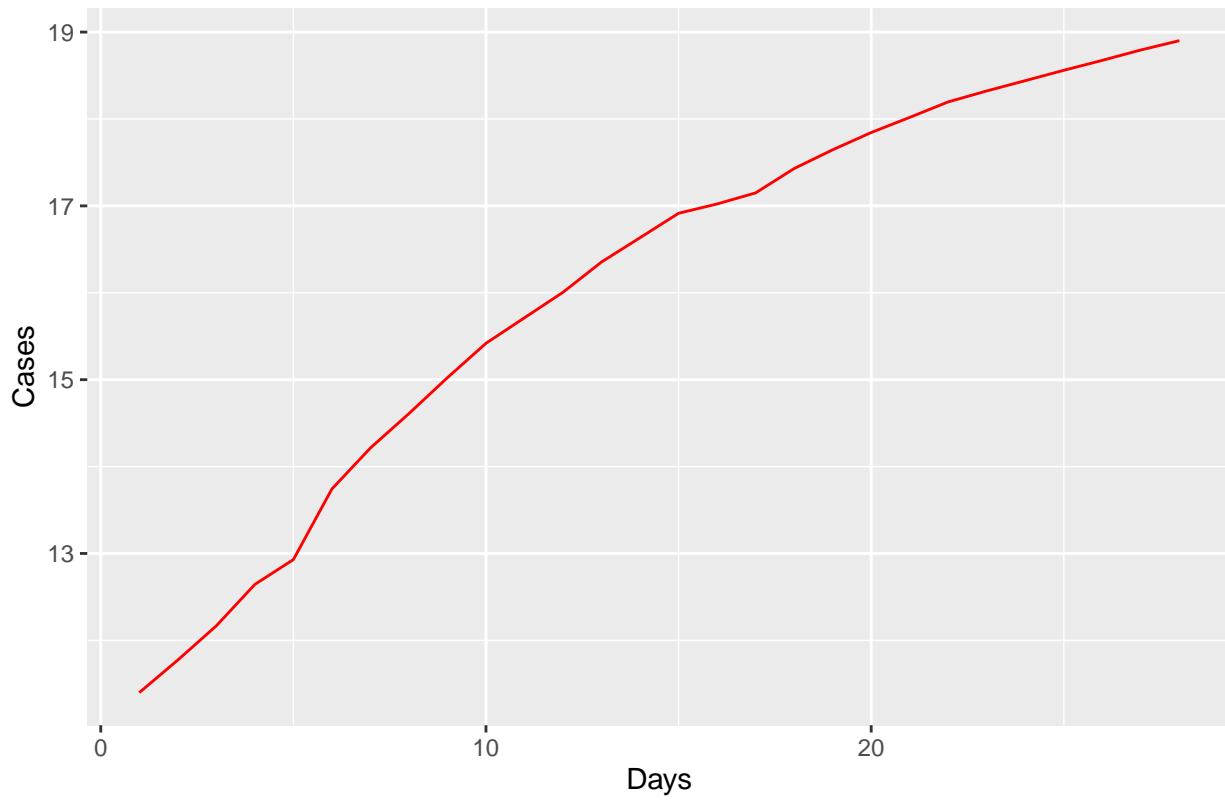
- Tomorrows predicted case number is between **3208.9277667** and **3891.4946317** cases.
- Current doubling rate is **22 days**
- Mean doubling rate, i.e number of cases doubles every **3 days**.
- Median doubling rate, i.e number of cases doubles every **4 days**.
- Latest Observed Growth Rate **3.1146455** percent.
- Mean Growth Rate: **25.048028** percent.
- Median Growth Rate: **17.5640265** percent.
- Standard deviation: +/- **18.2075026**.

## US Corona Dashboard

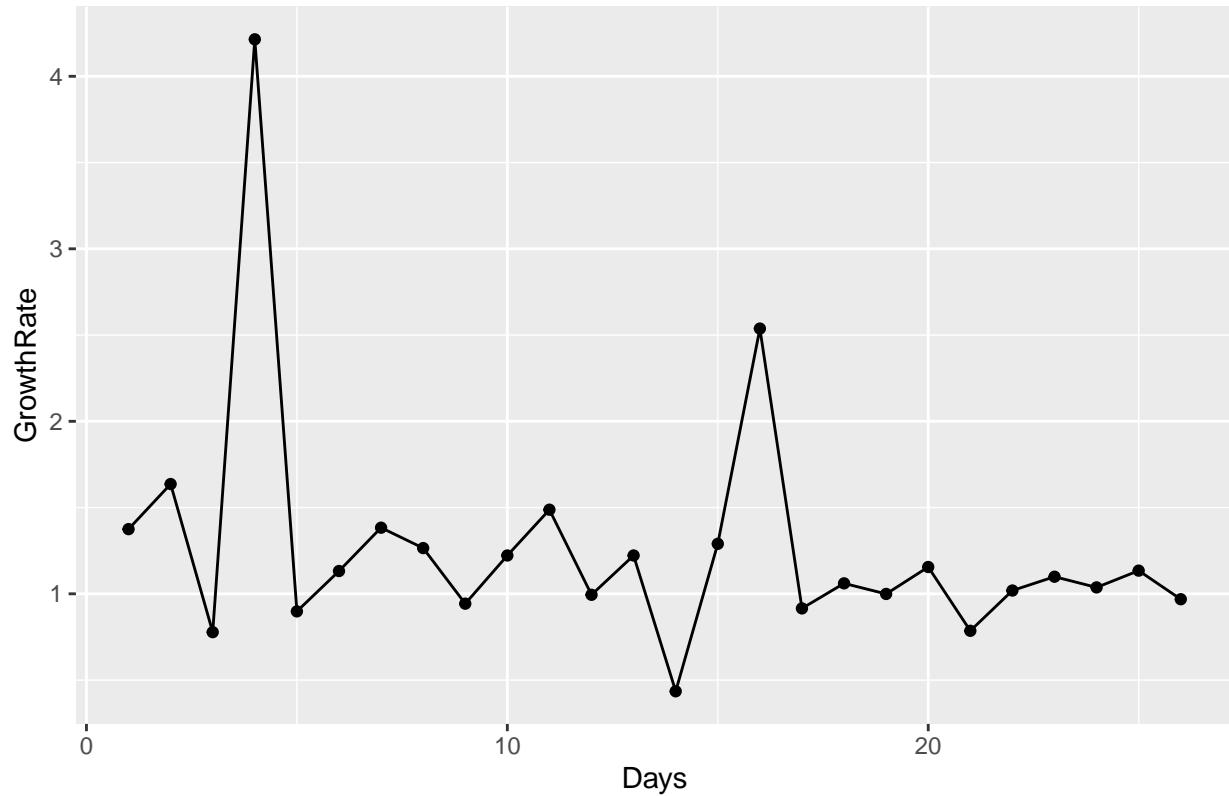
### US: Daily Cases



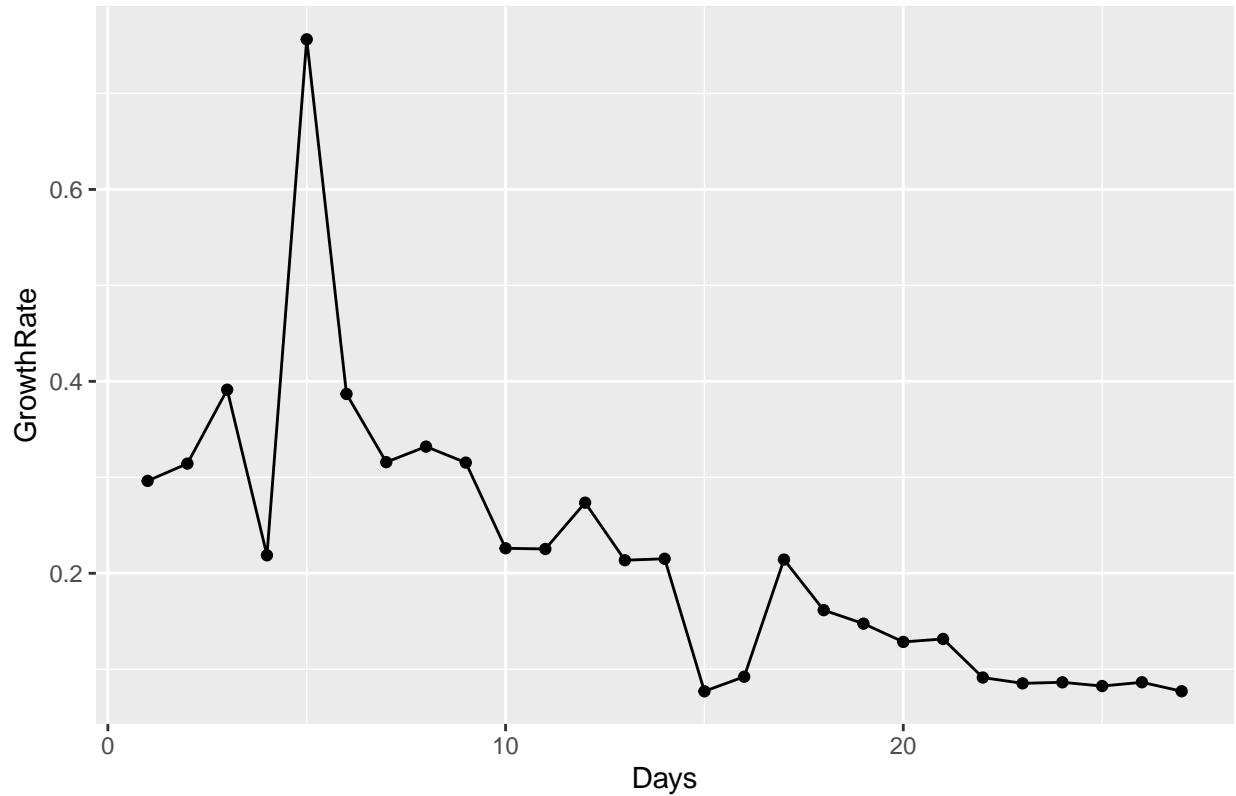
### US: Daily Cases



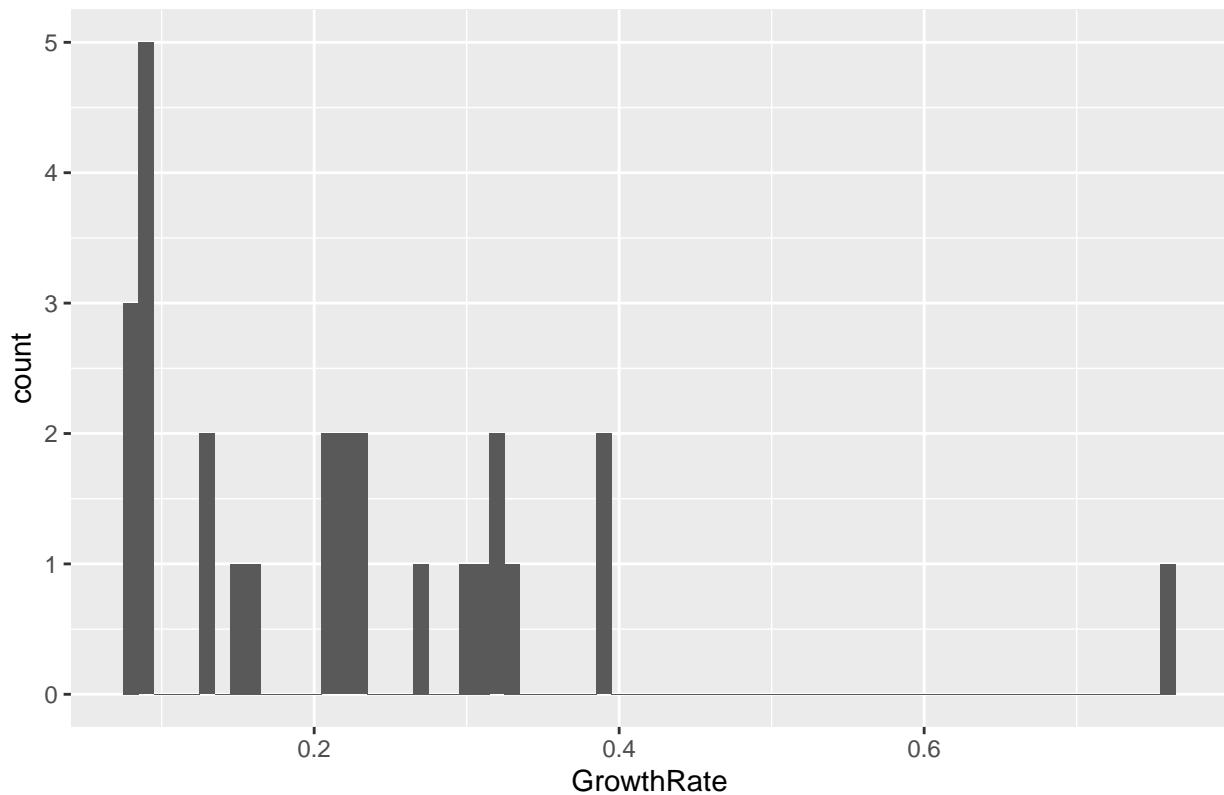
### US: Rate of change in Growth Rate



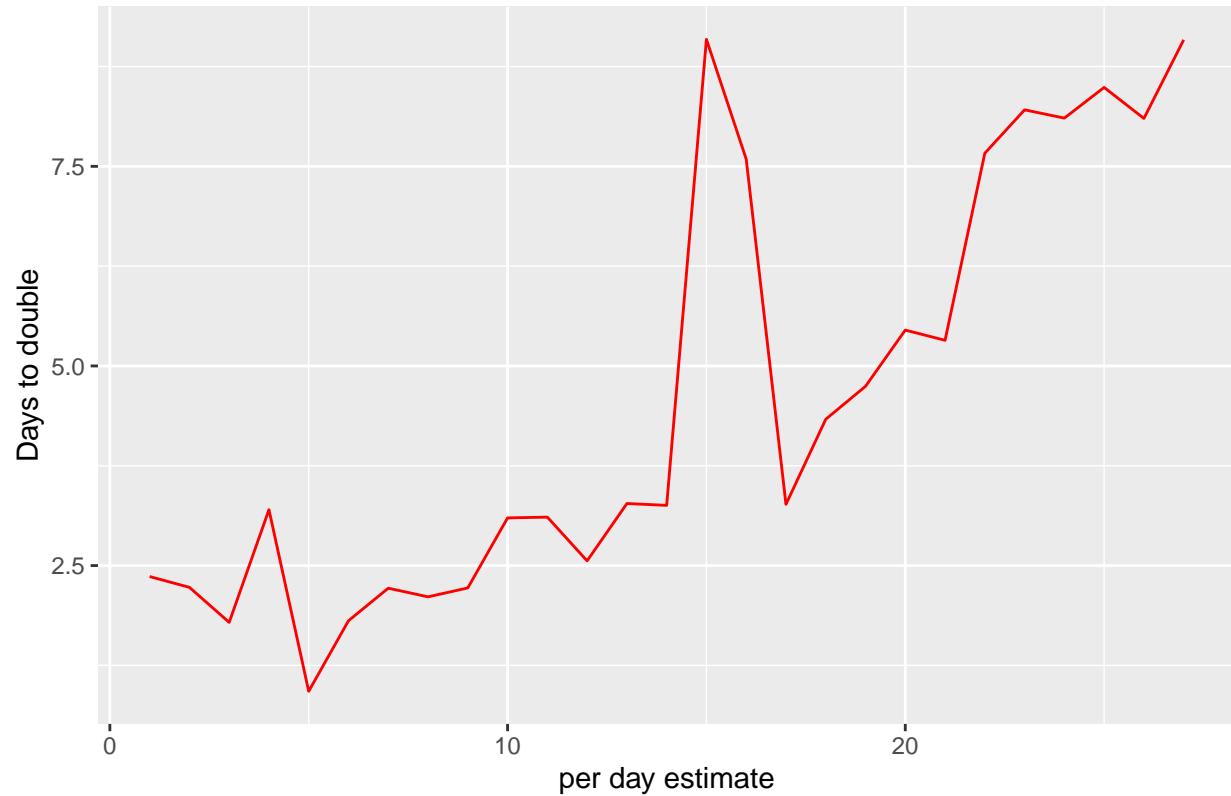
## US: Growth Rate



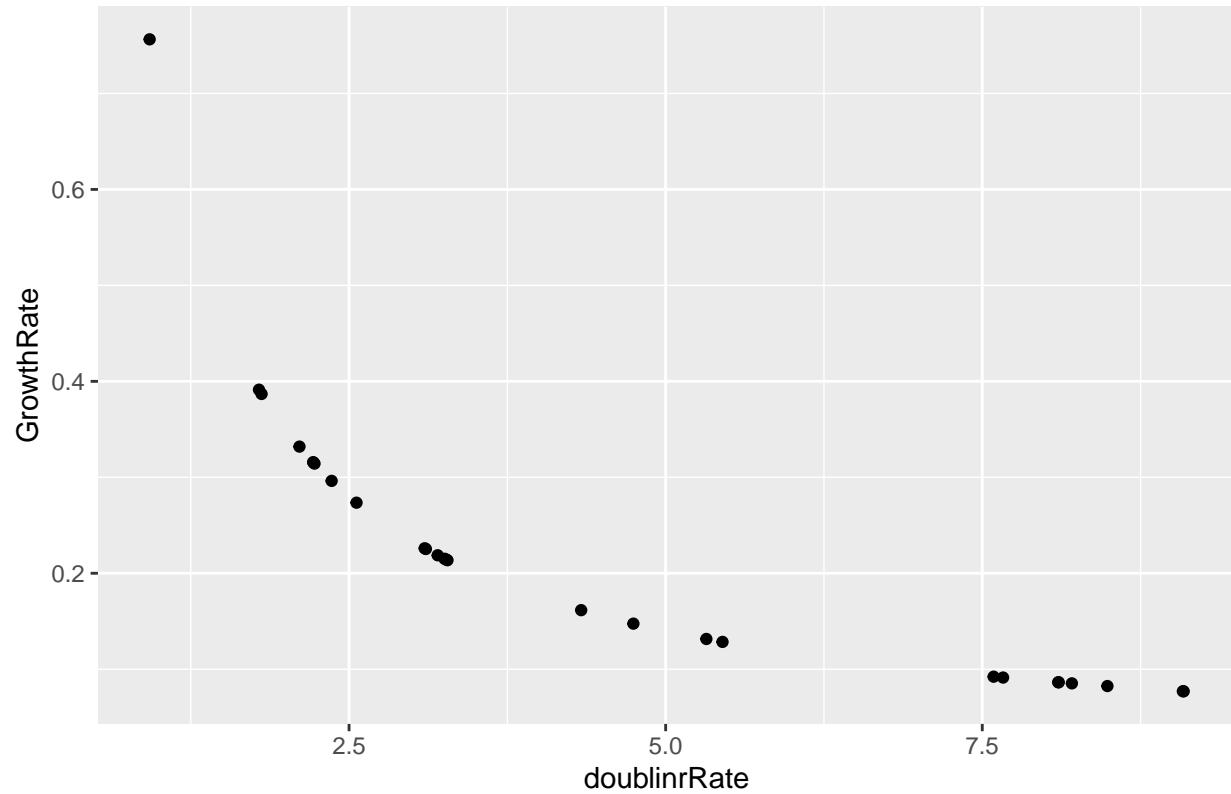
Histogram of GrowthRate



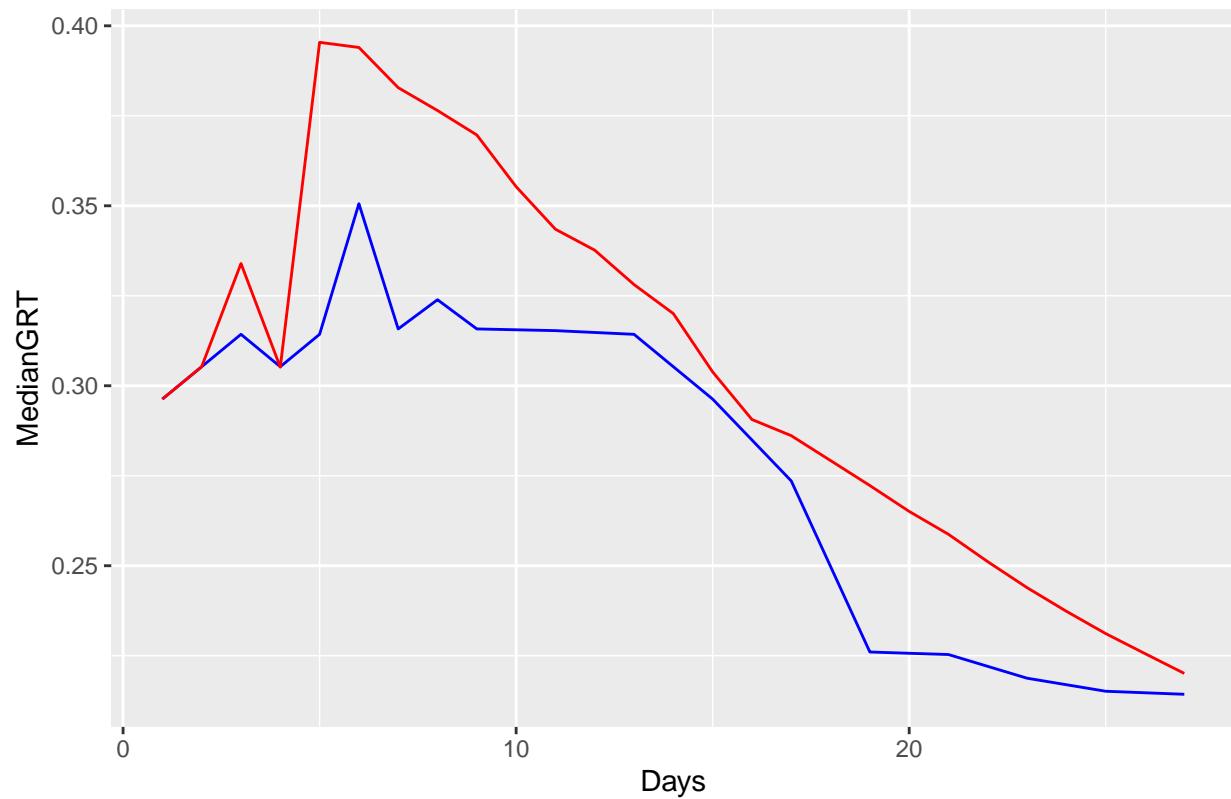
## Doubling Rate in days



## Doubling Rate vs Growth Rate



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

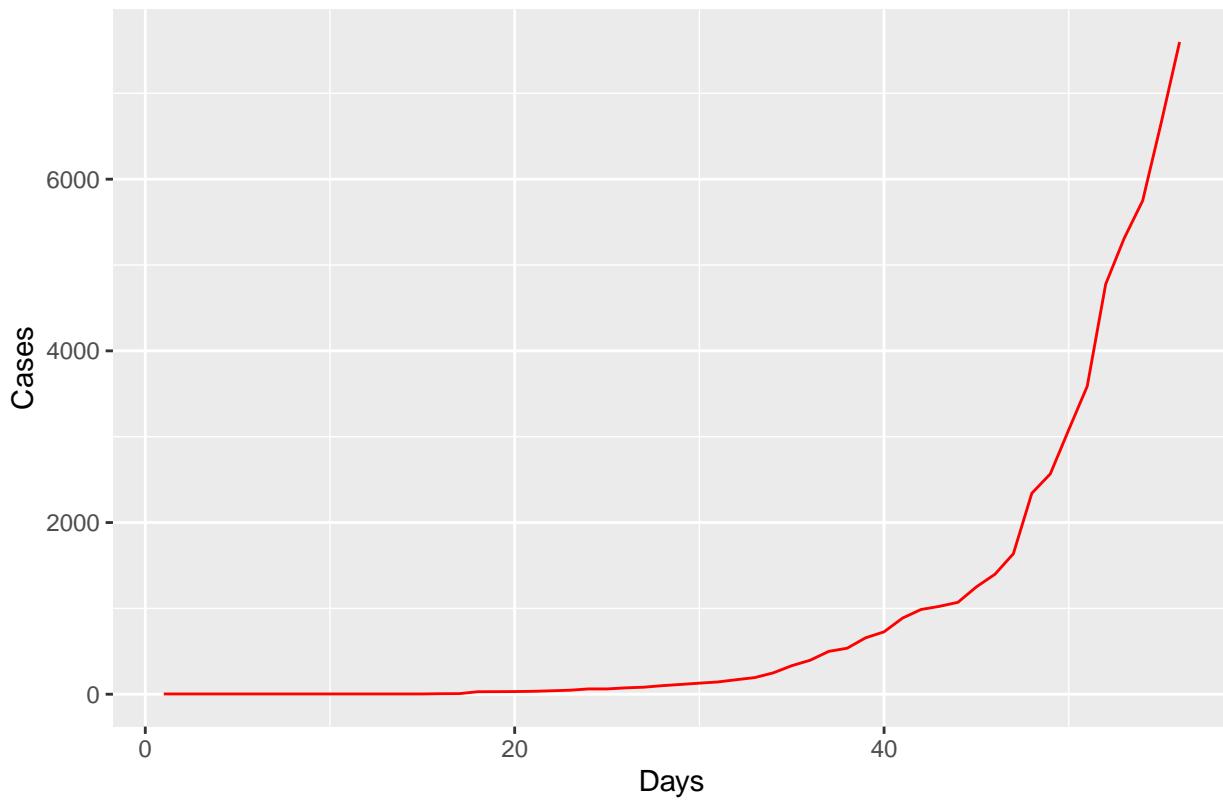


#### Results:

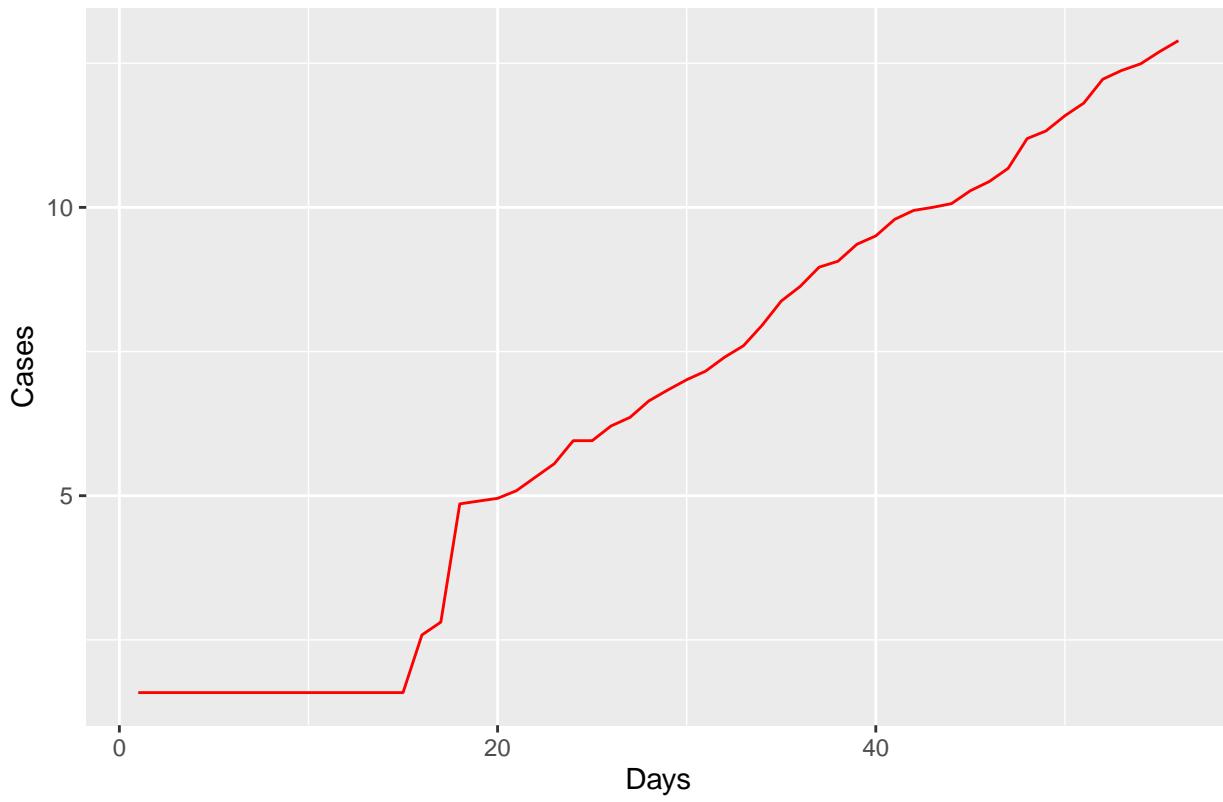
- Tomorrows predicted case number is between  $5.2737636 \times 10^5$  and  $5.9740768 \times 10^5$  cases.
- Current doubling rate is **9 days**
- Mean doubling rate, i.e number of cases doubles every **3 days**.
- Median doubling rate, i.e number of cases doubles every **3 days**.
- Latest Observed Growth Rate **7.705641** percent.
- Mean Growth Rate: **22.0080786** percent.
- Median Growth Rate: **21.4275396** percent.
- Standard deviation: +/- **14.7396091**.

## India Corona Dashboard

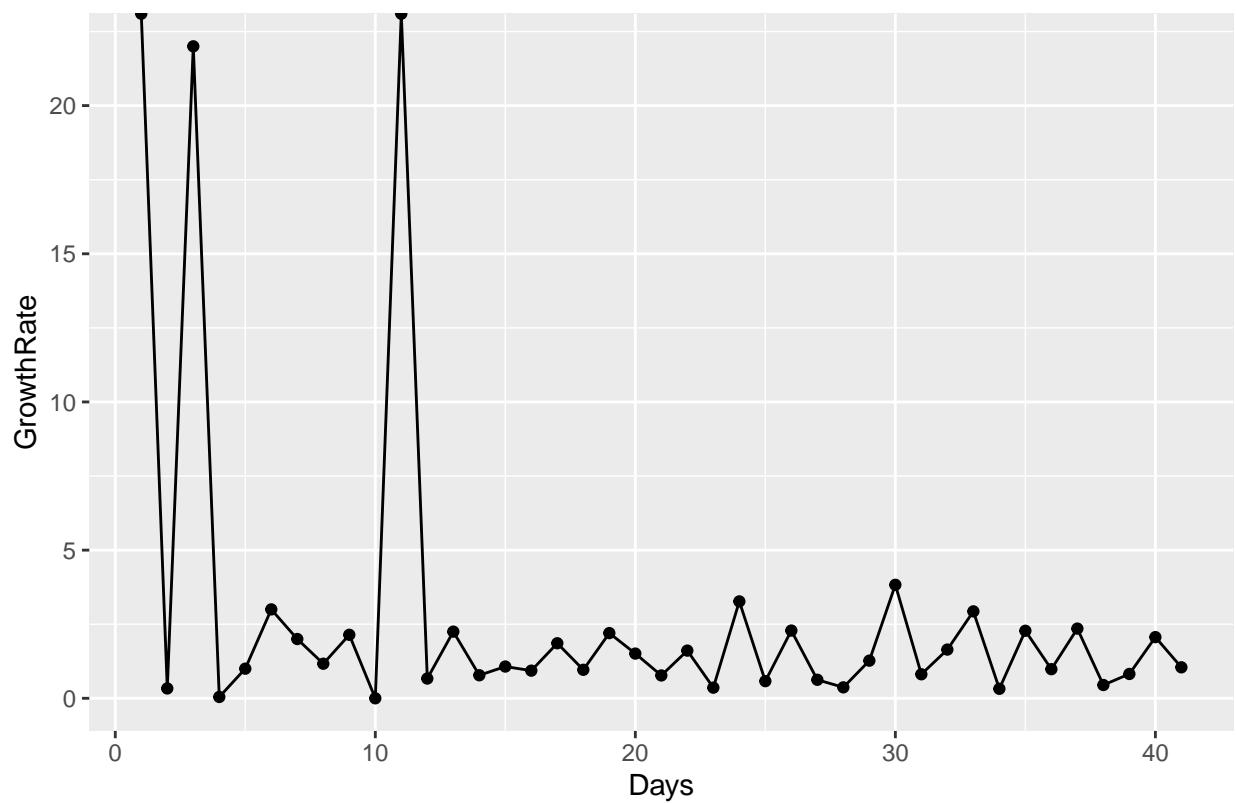
### India: Daily Cases



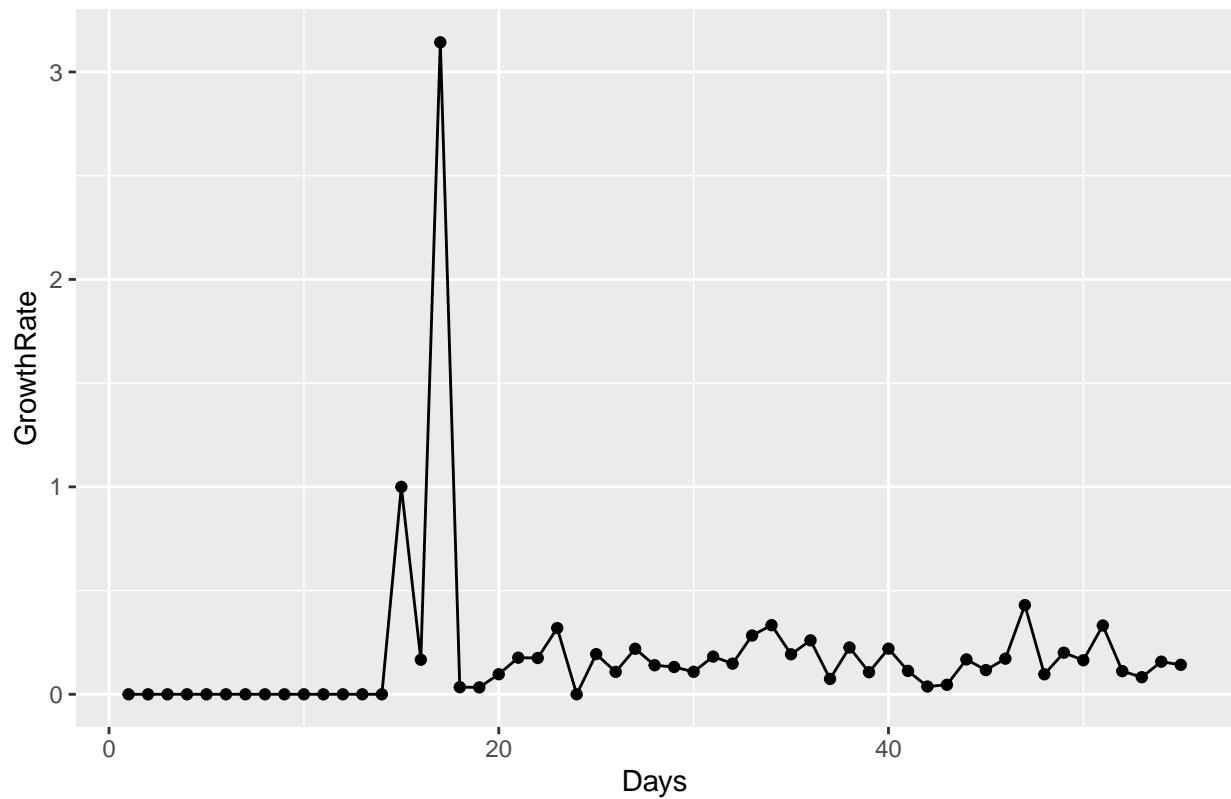
### India: Daily Cases



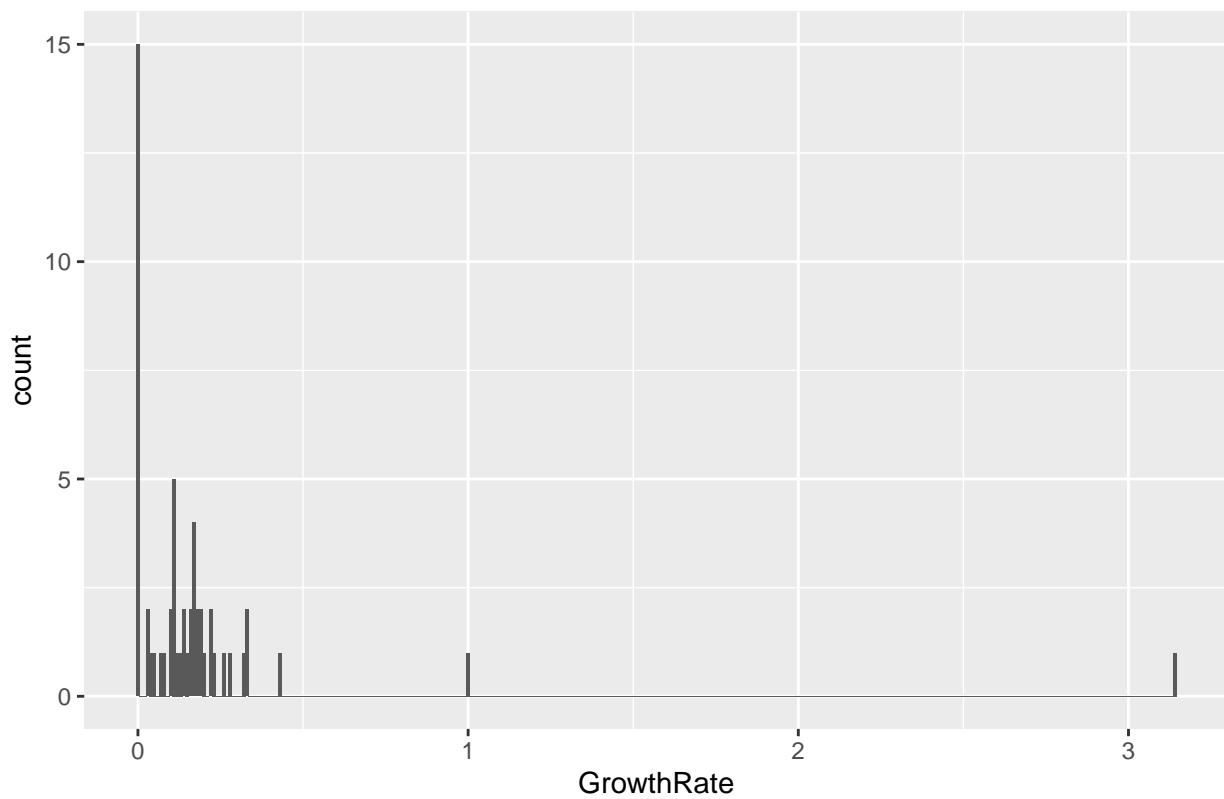
### US: Rate of change in Growth Rate

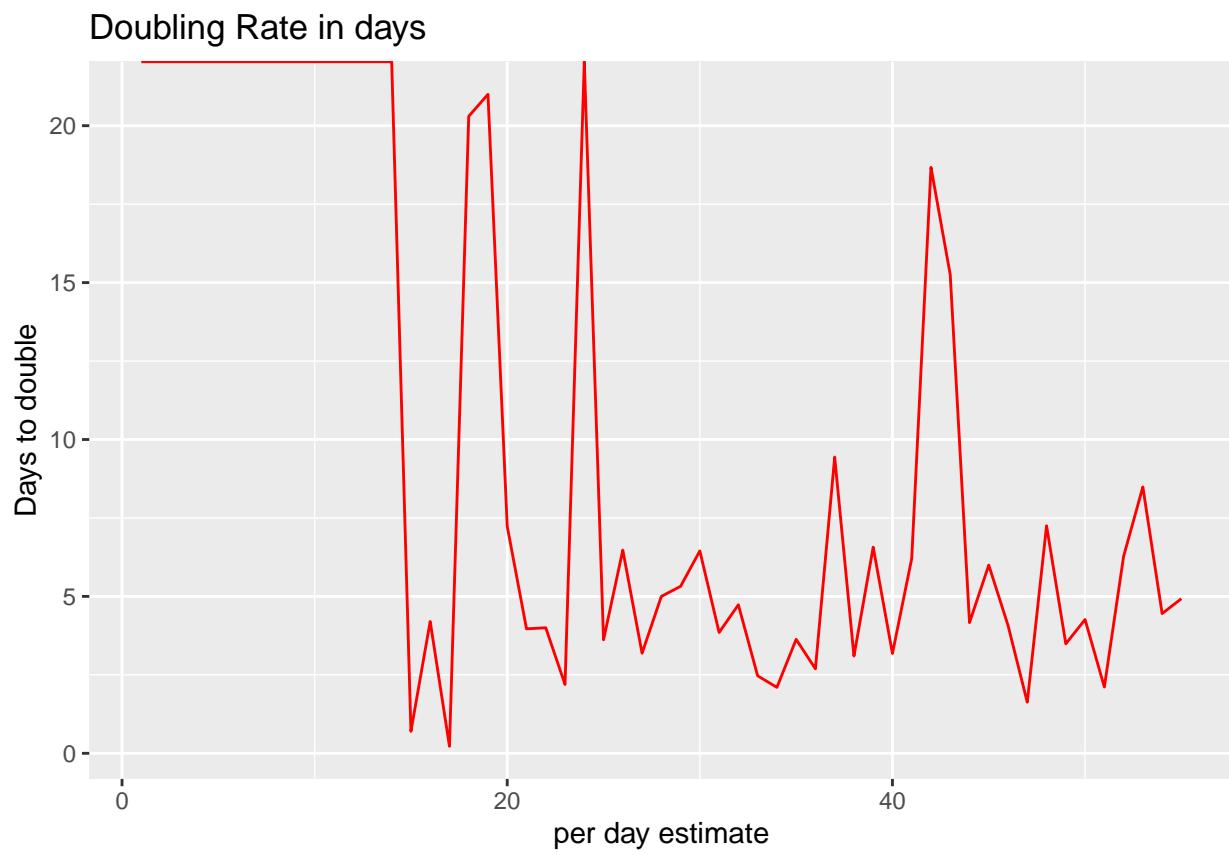


## India: Growth Rate

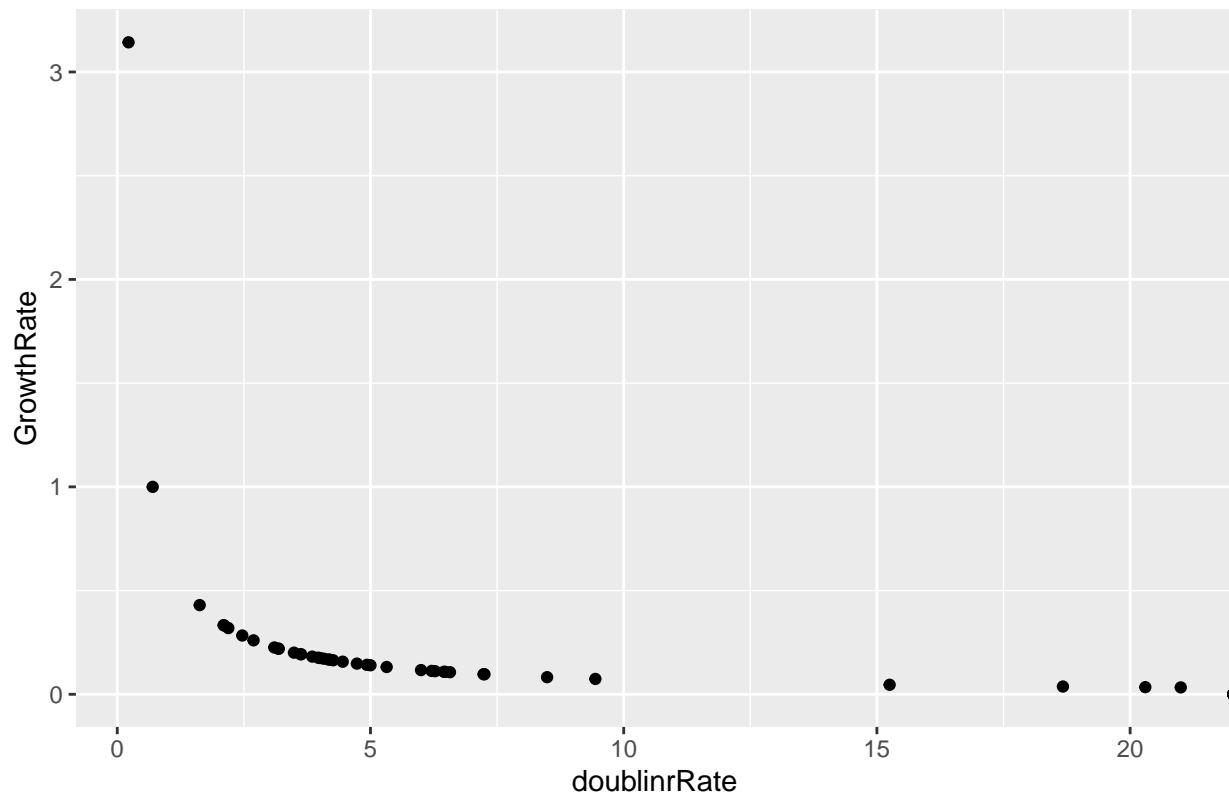


Histogram of GrowthRate

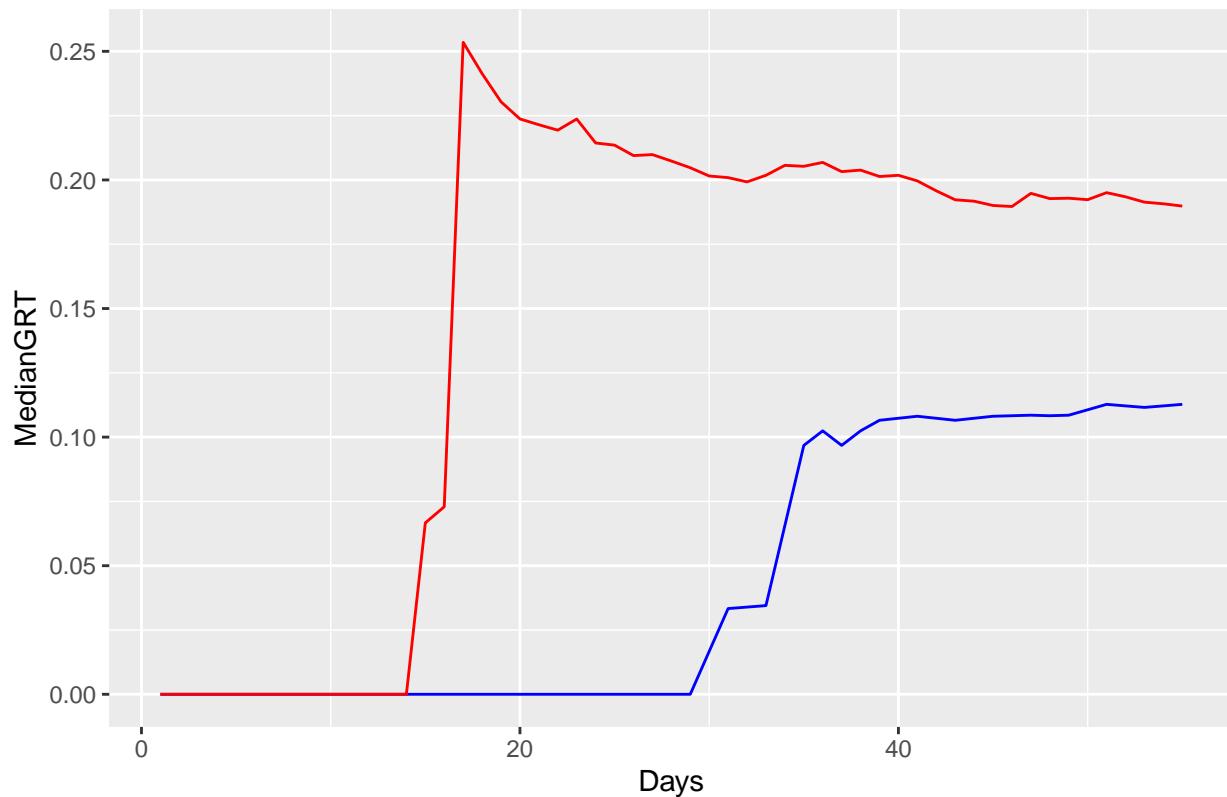




## Doubling Rate vs Growth Rate



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



#### Results:

- Tomorrows predicted case number is between **8677.2289193** and **9040.3838313** cases.
- Current doubling rate is **5 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 **14.2041184** percent.
- Mean Growth Rate: **18.9837303** percent.
- Median Growth Rate: **11.2739572** percent.
- Standard deviation: +/- **43.5363835**.