

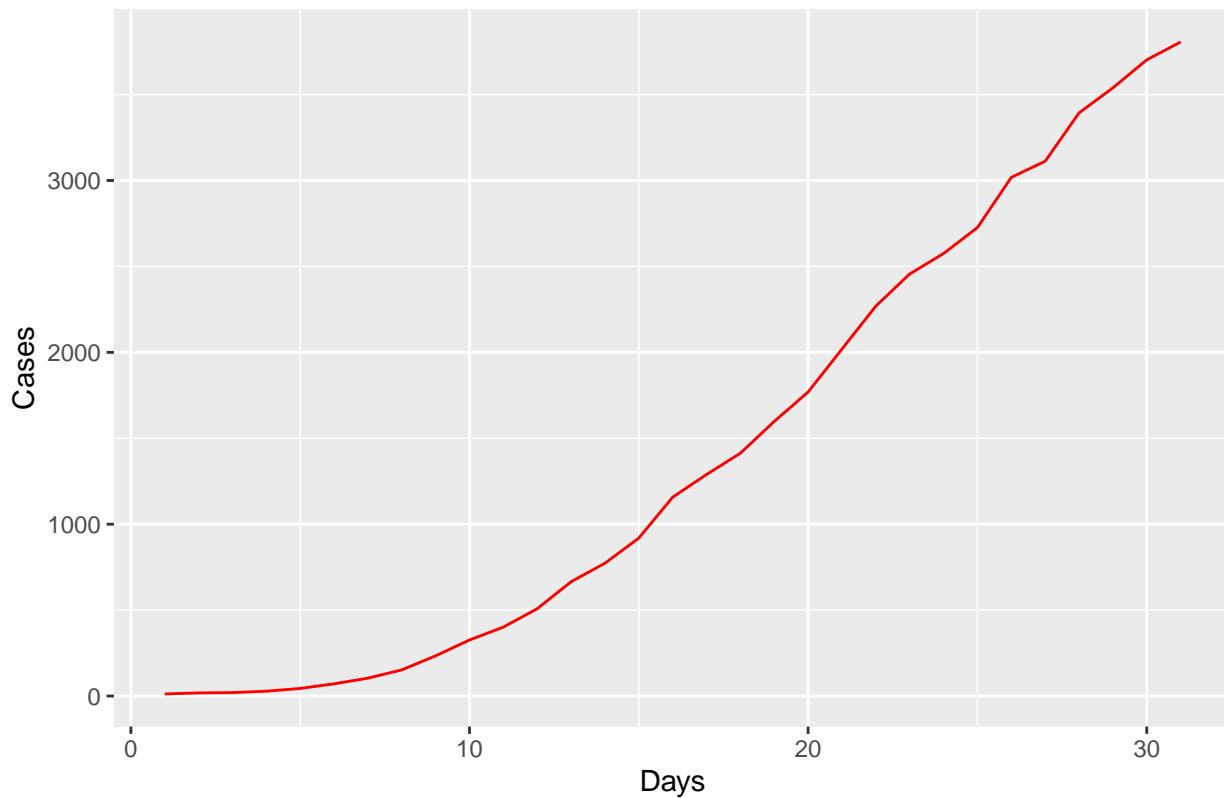
# Arizona/US/India Corona Trends- 14th April 2020 with tomorrow's prediction

Whitchurch Muthumani

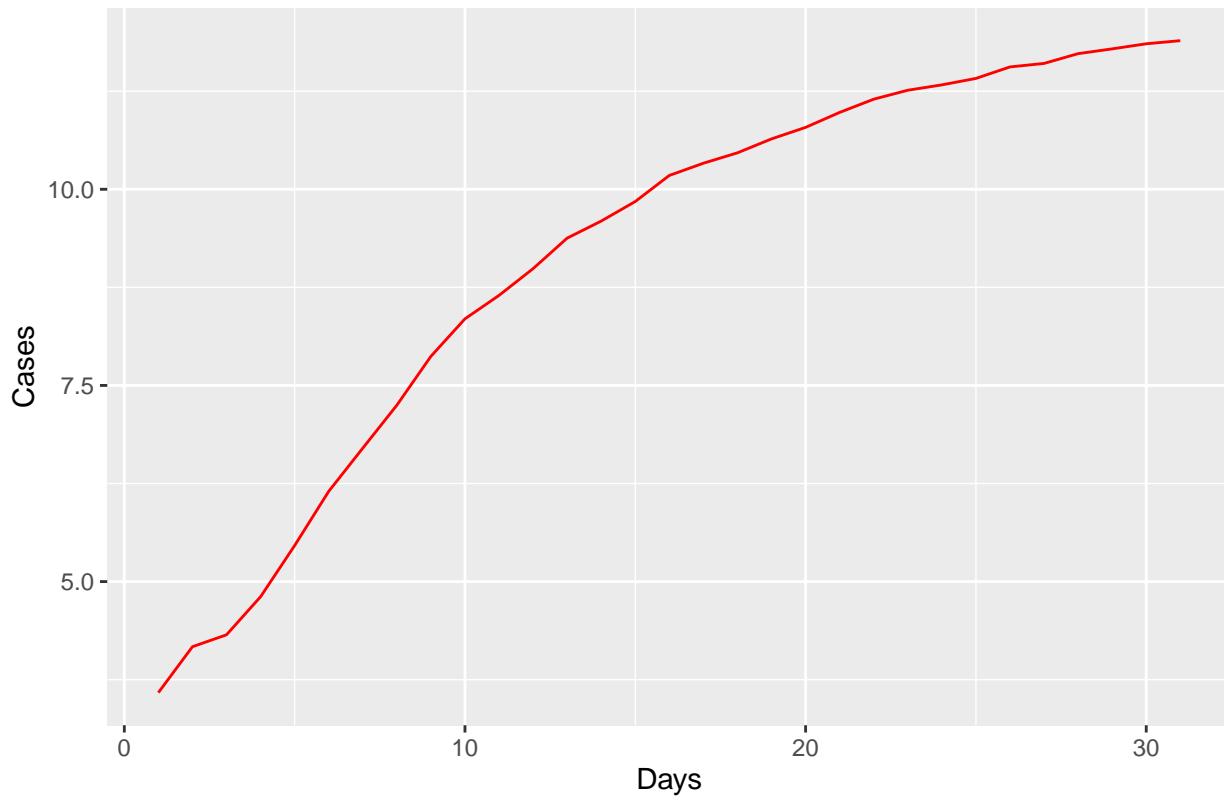
4/14/2020

## Arizona Corona Dashboard

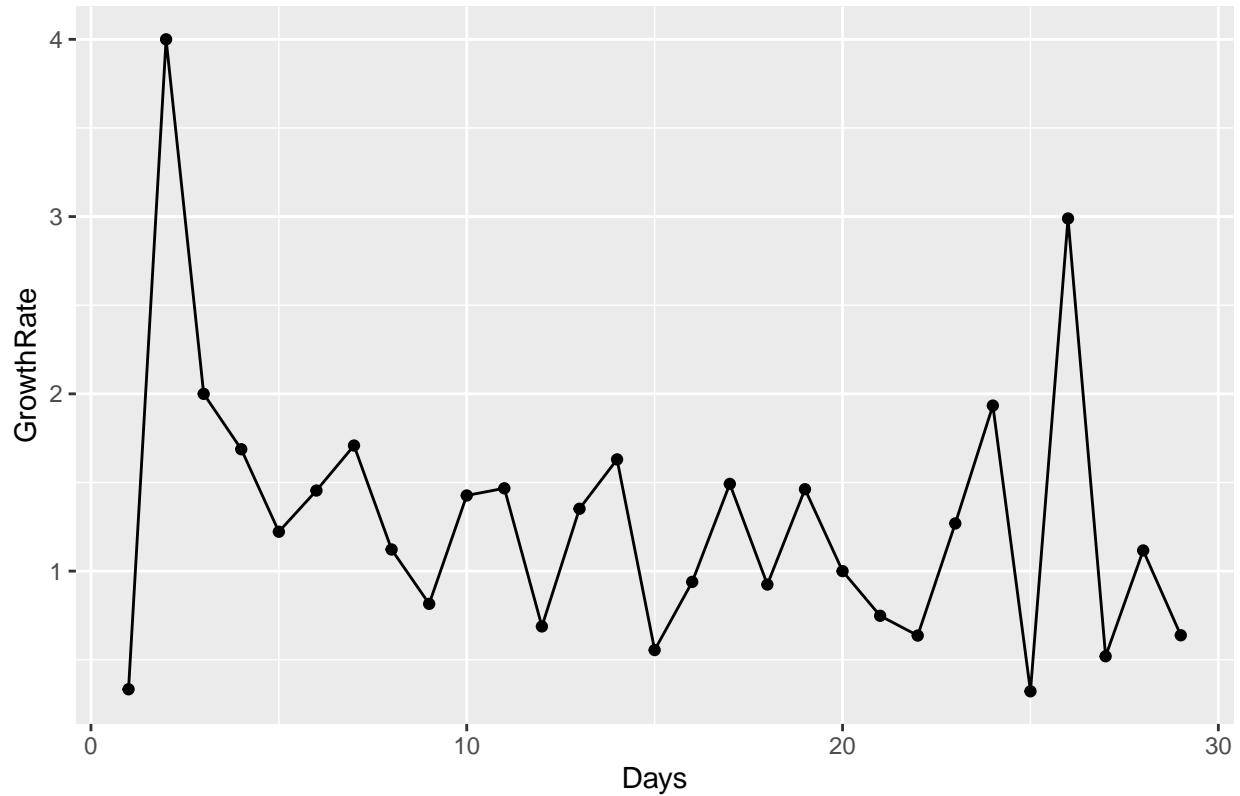
### Arizona: Daily Cases



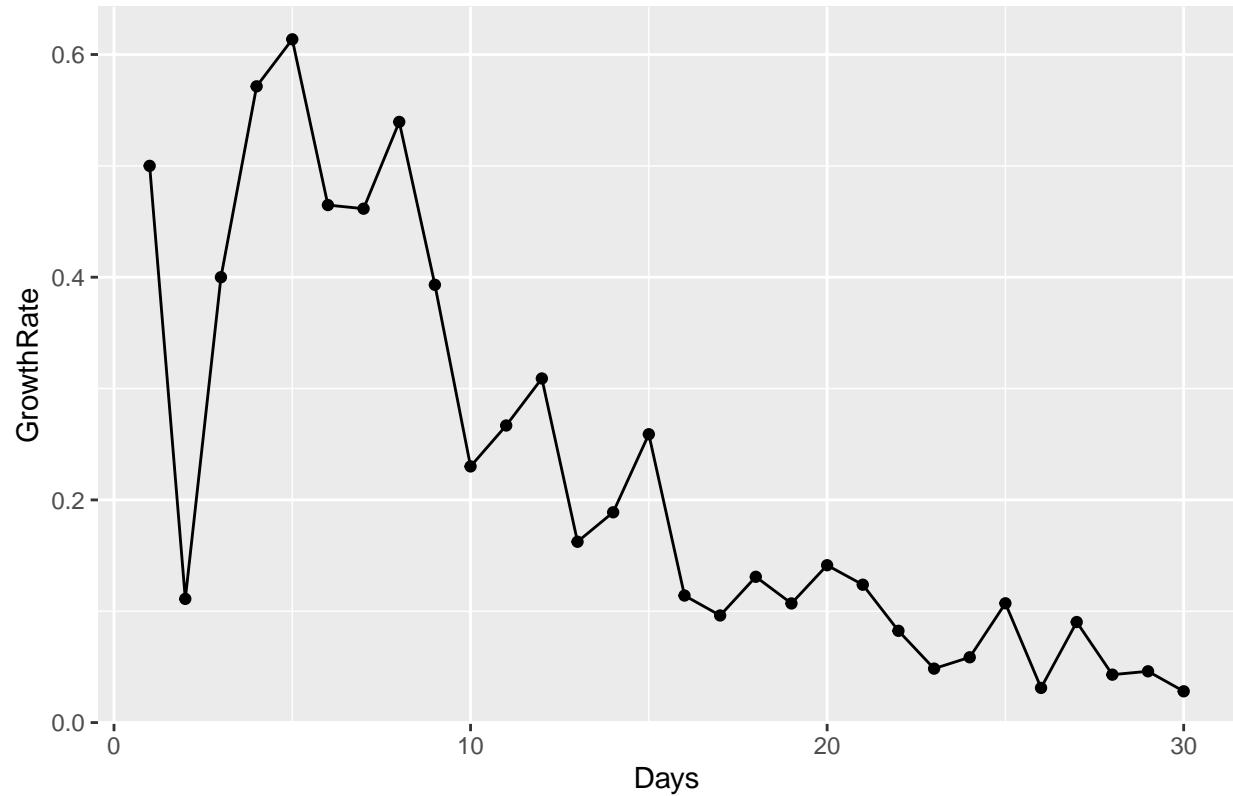
### Arizona: Daily Cases



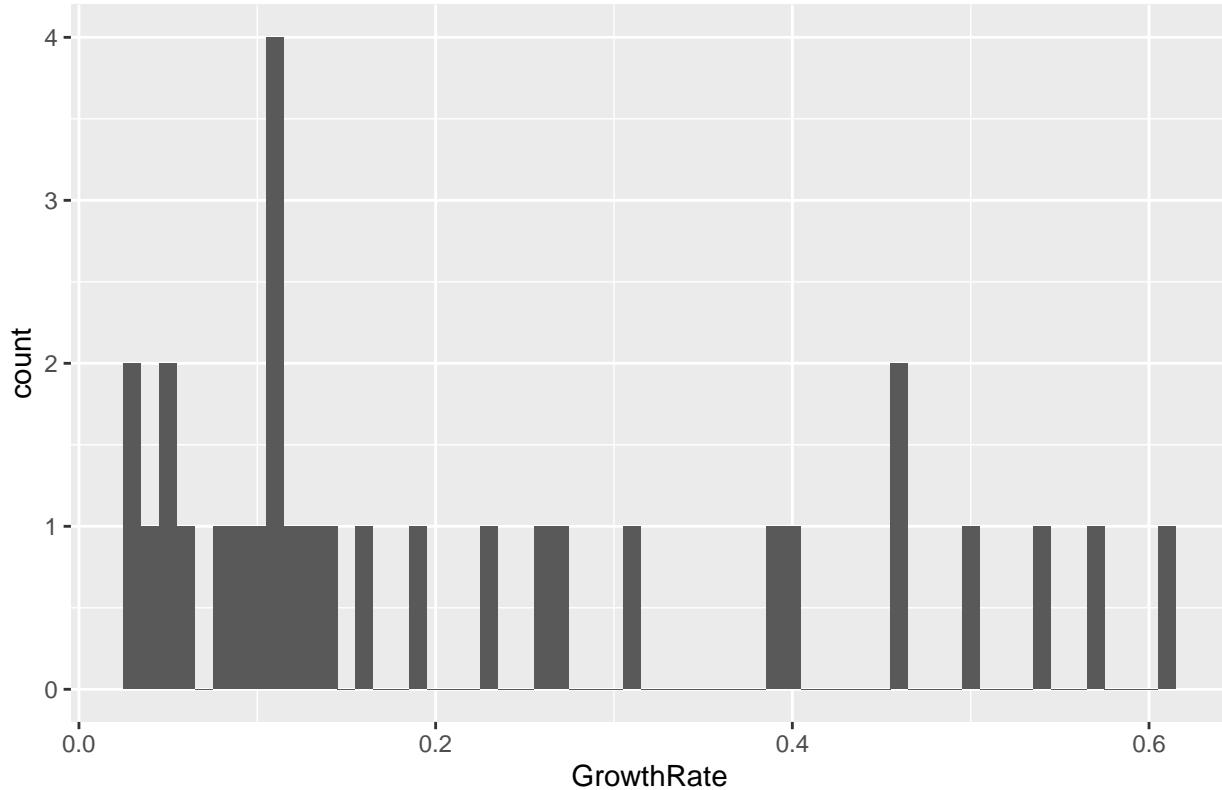
## Arizona: Rate of change in Growth Rate



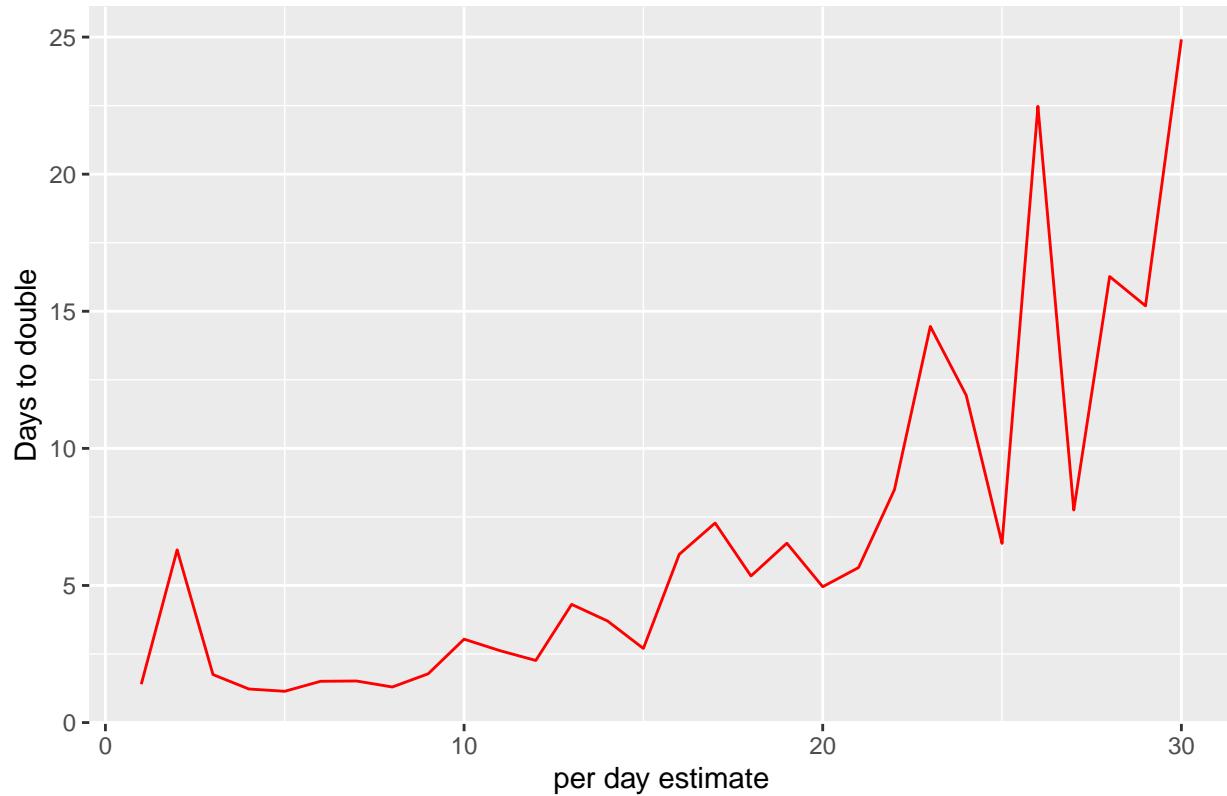
## Arizona: Growth Rate



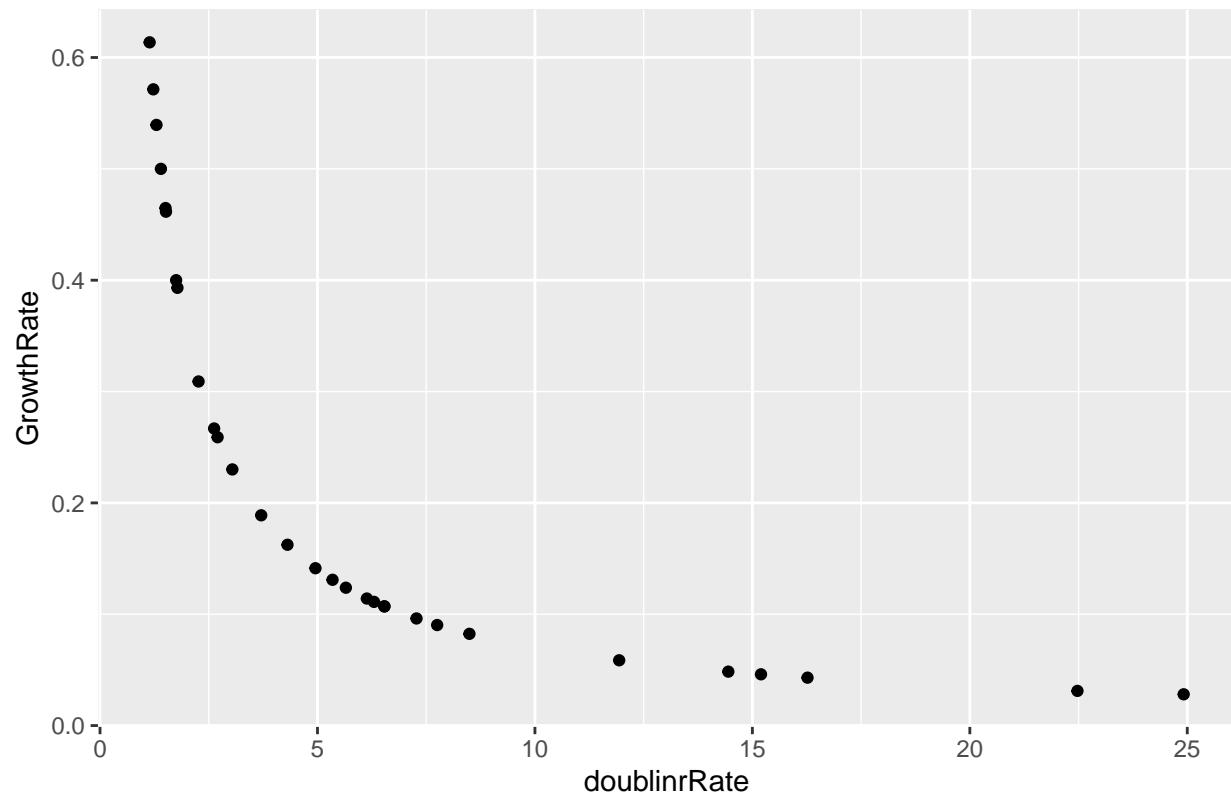
Histogram of GrowthRate



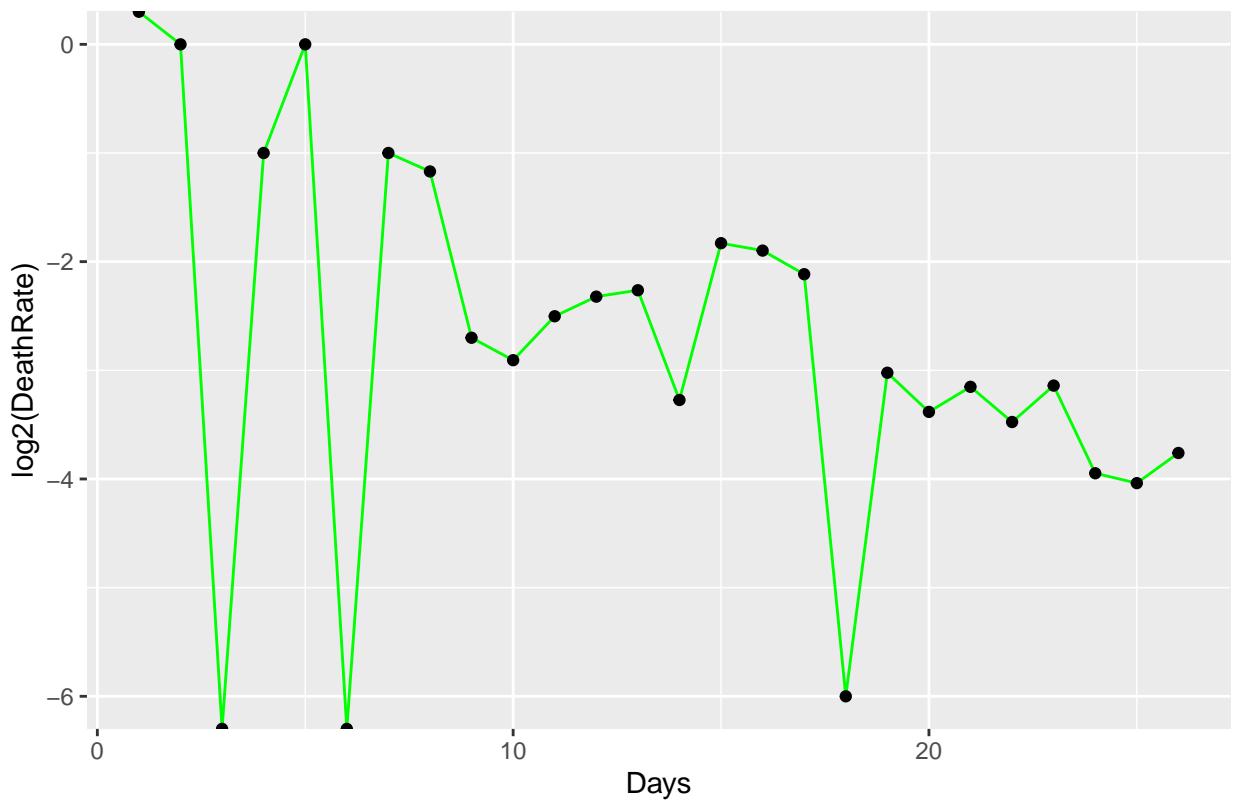
## Doubling Rate in days



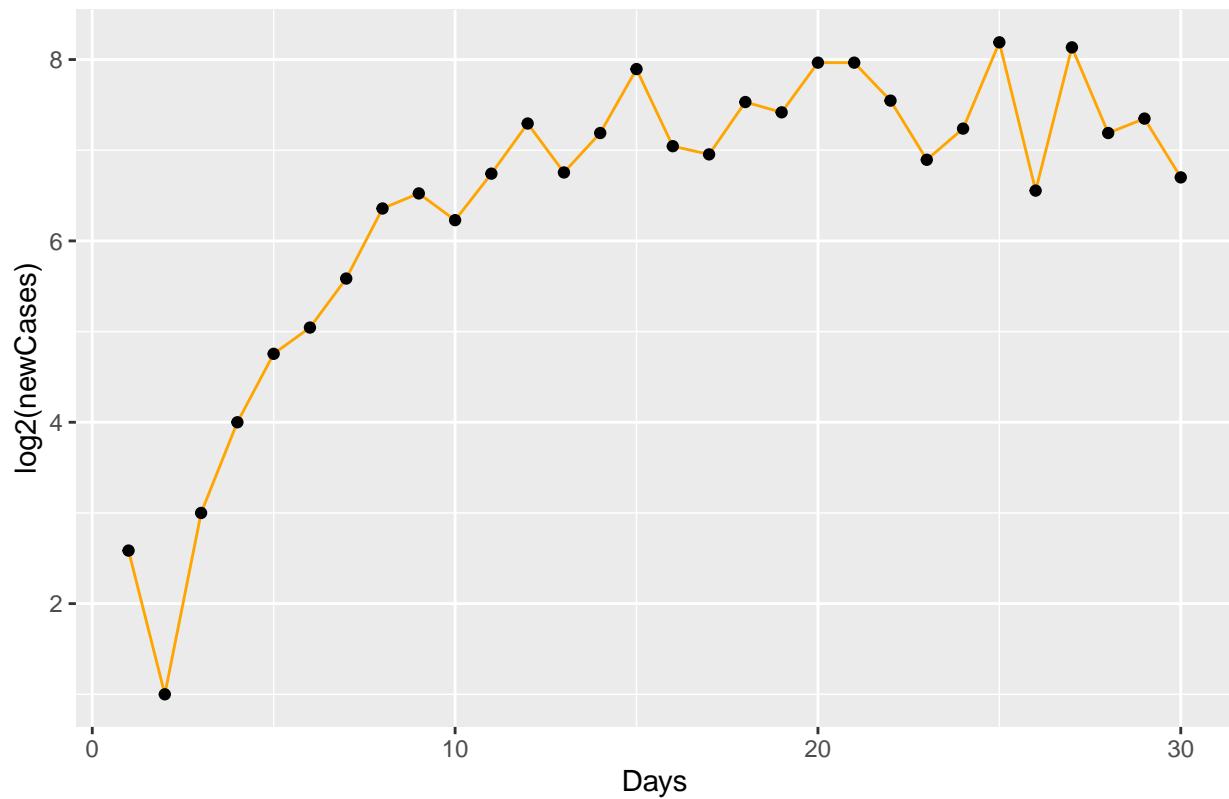
Doubling Rate vs Growth Rate



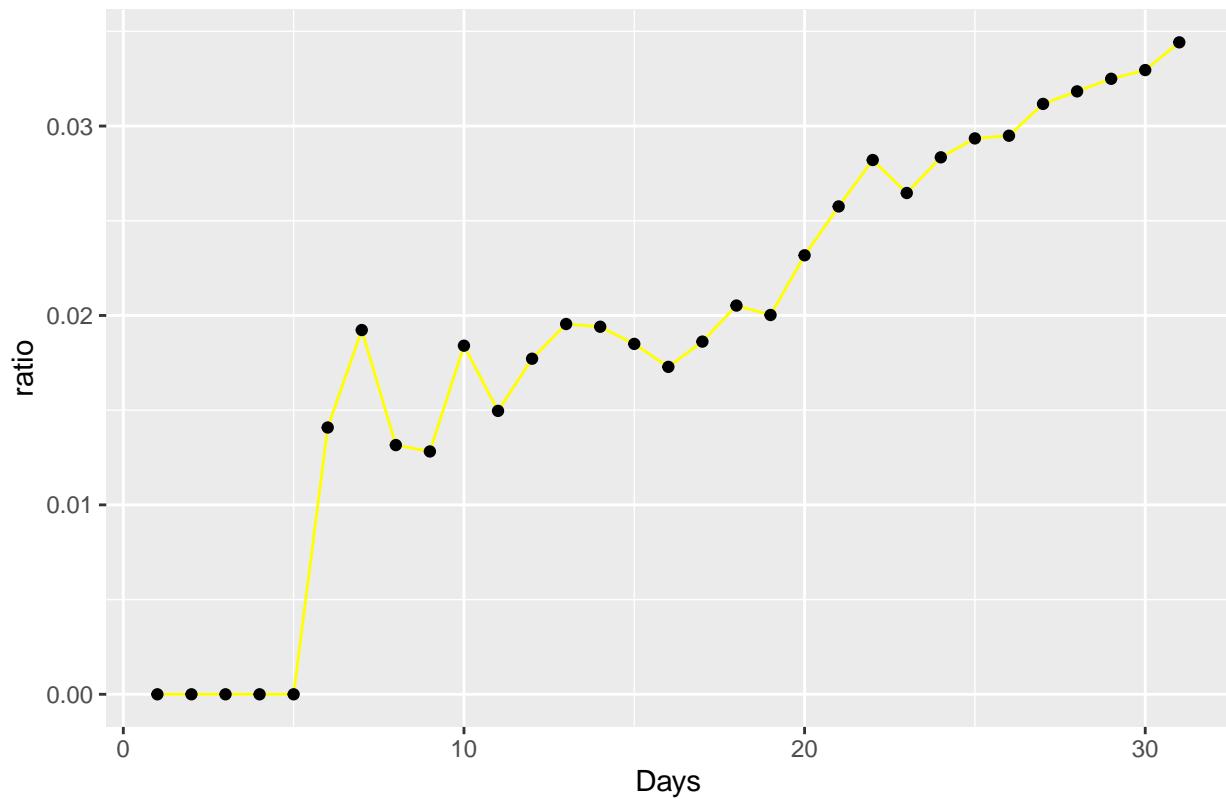
### Arizona: Daily Death Rate



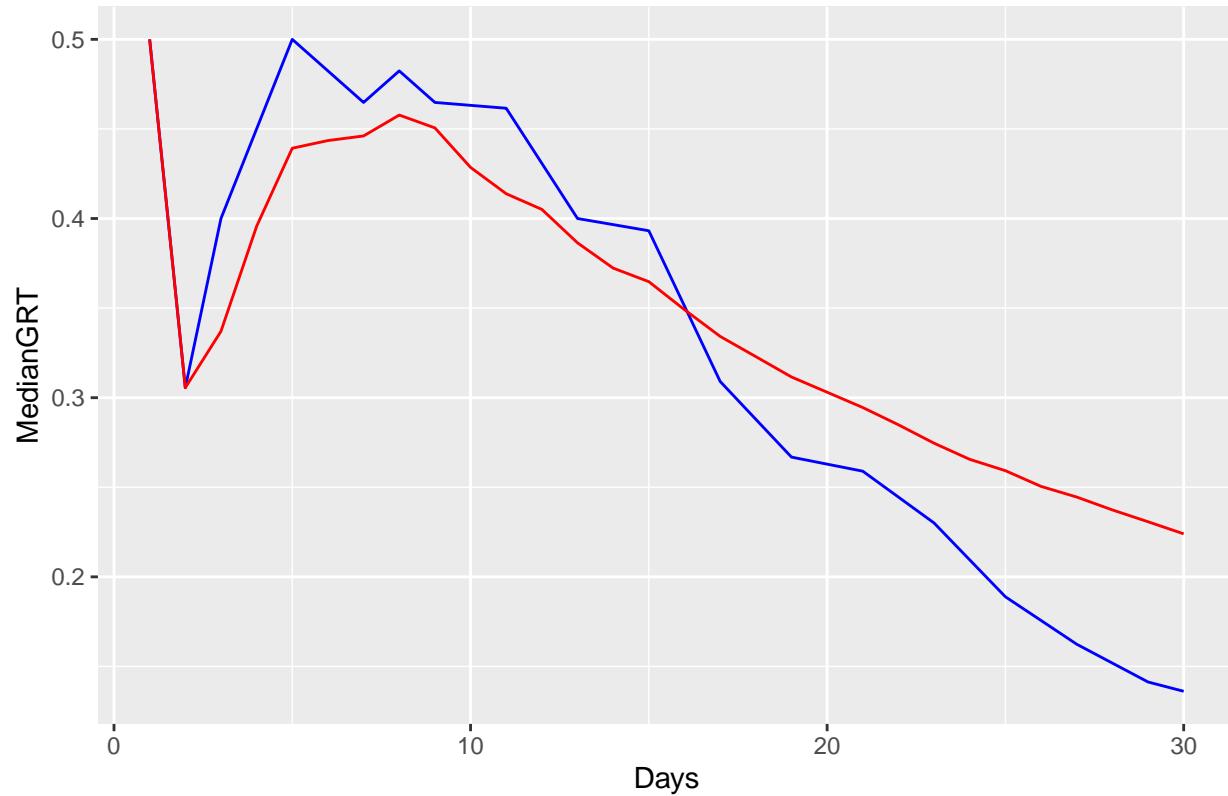
Arizona:newCases(Orange)



### Arizona: TotalDeaths/TotalCases



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

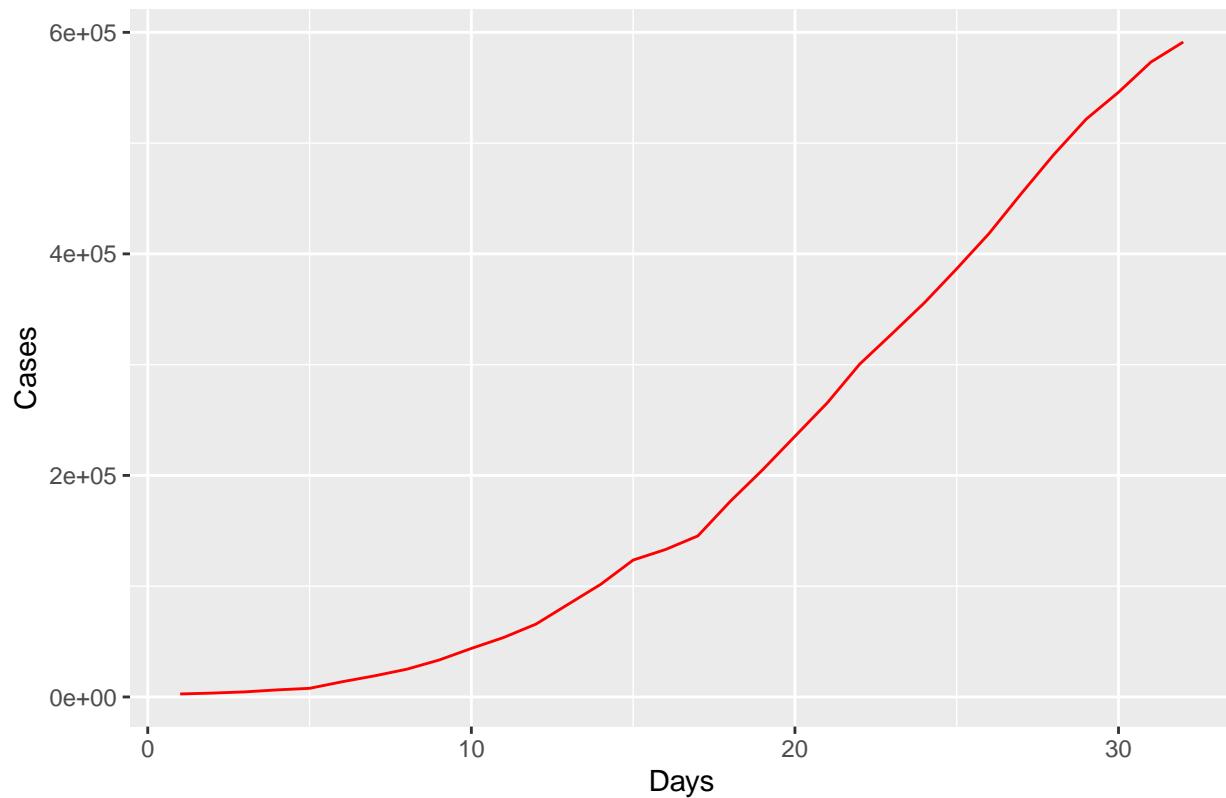


#### Results:

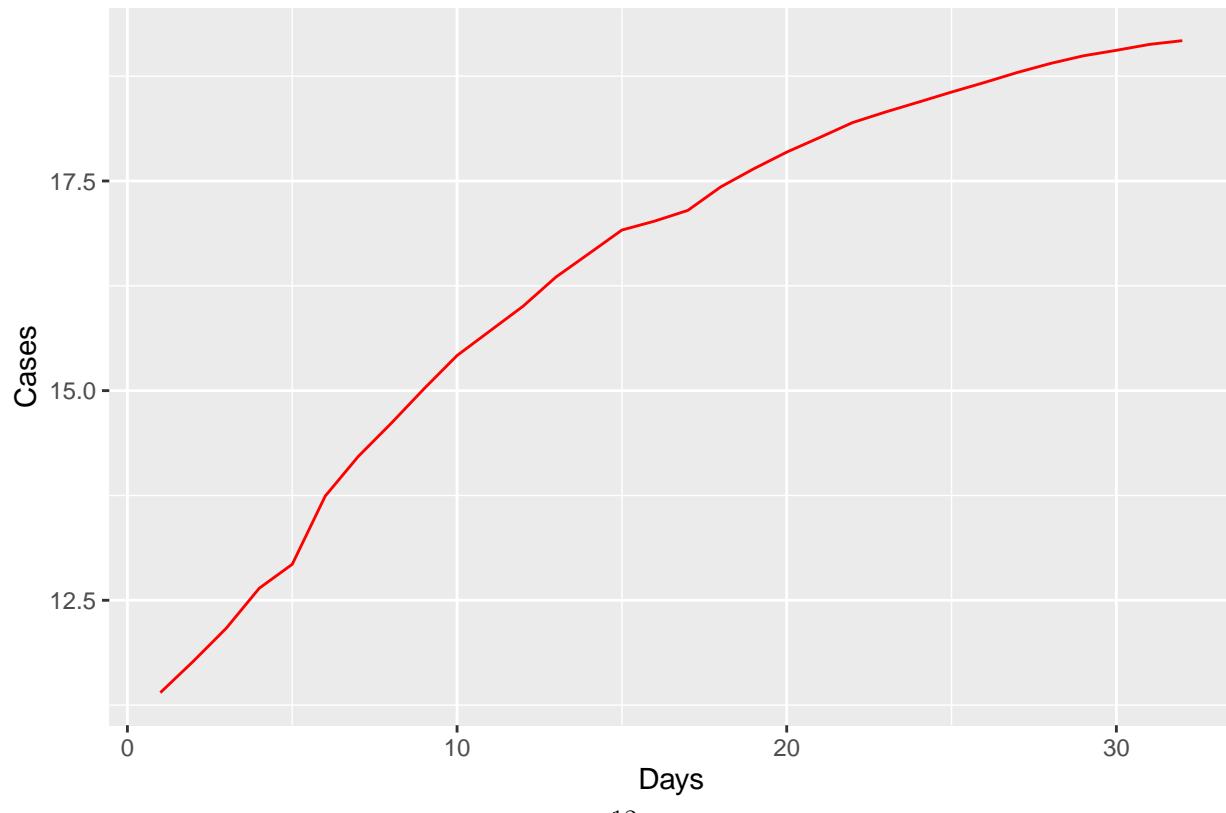
- Tomorrows predicted case number is between **3912.921664** and **4658.5394088** cases.
- Current doubling rate is **25 days**
- Mean doubling rate, i.e number of cases doubles every **3 days**.
- Median doubling rate, i.e number of cases doubles every **5 days**.
- Latest Observed Growth Rate **2.8092923** percent.
- Mean Growth Rate: **22.3998794** percent.
- Median Growth Rate: **13.6124943** percent.
- Standard deviation: +/- **18.2670248**.

## US Corona Dashboard

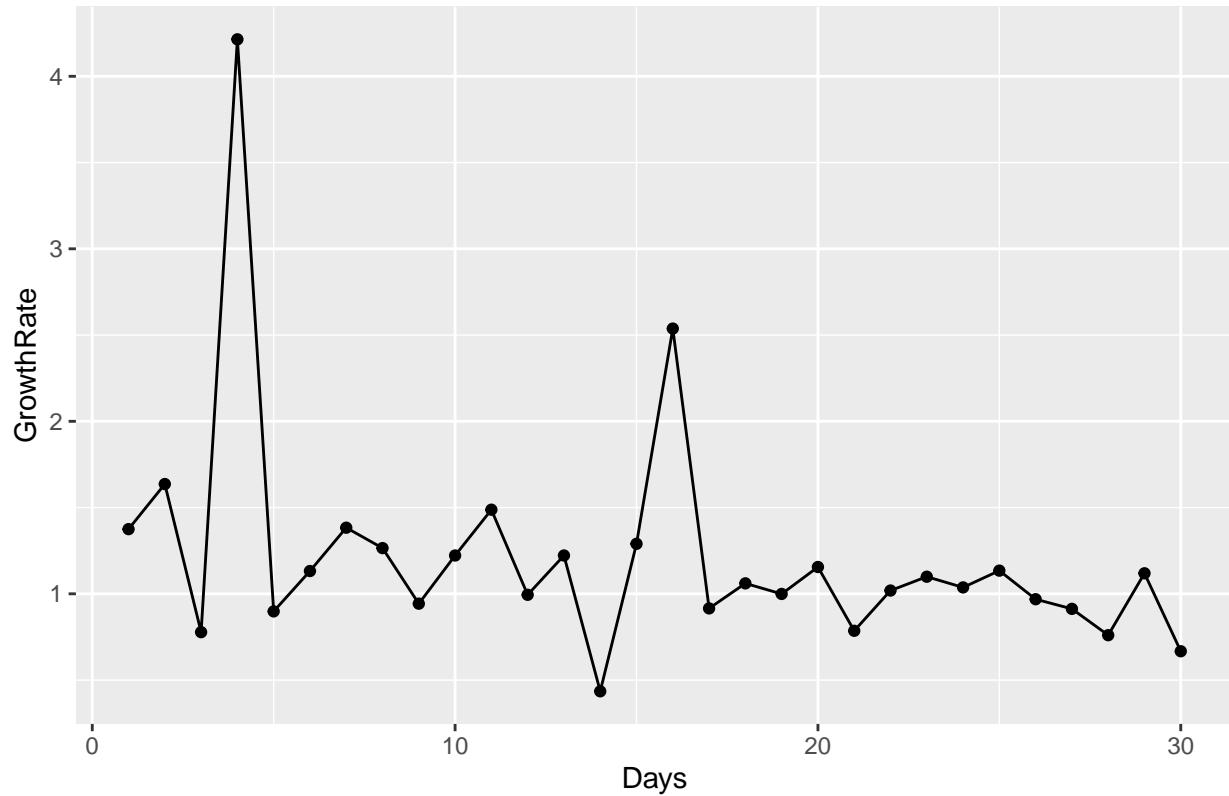
### US: Daily Cases



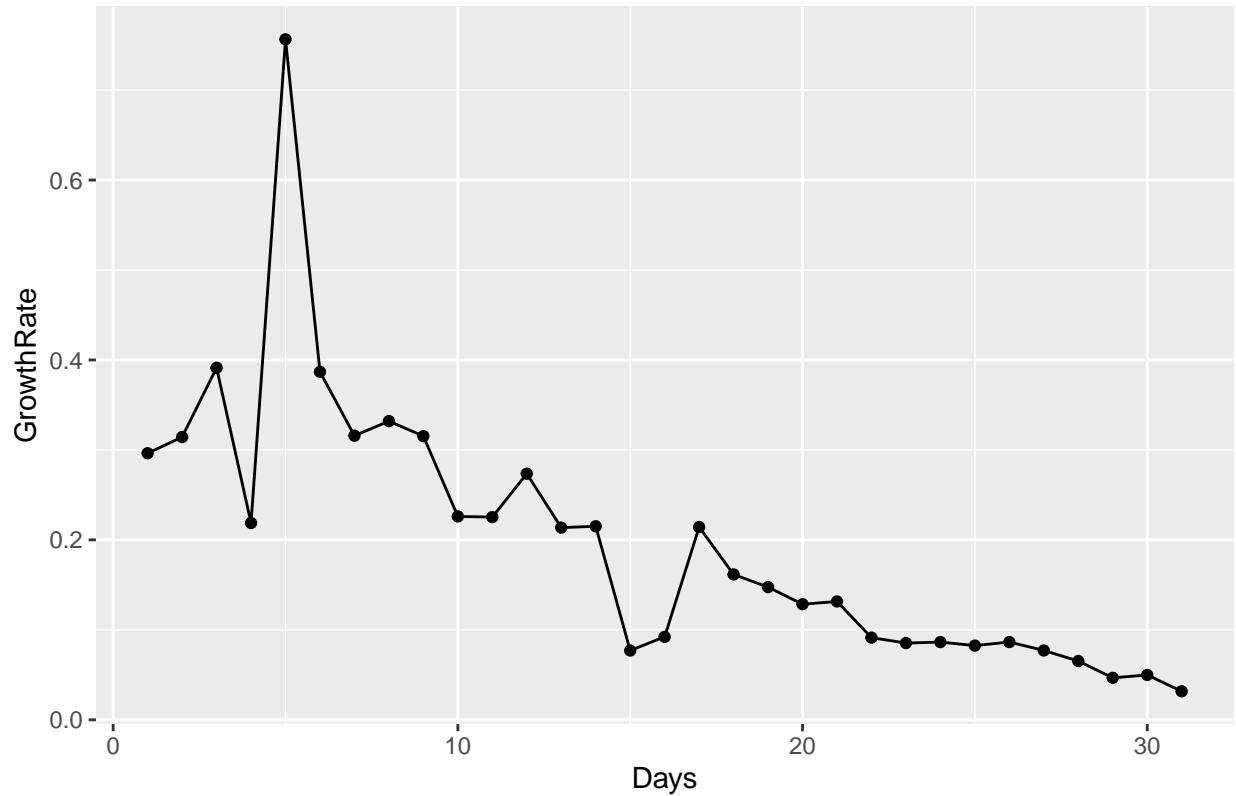
### US: Daily Cases



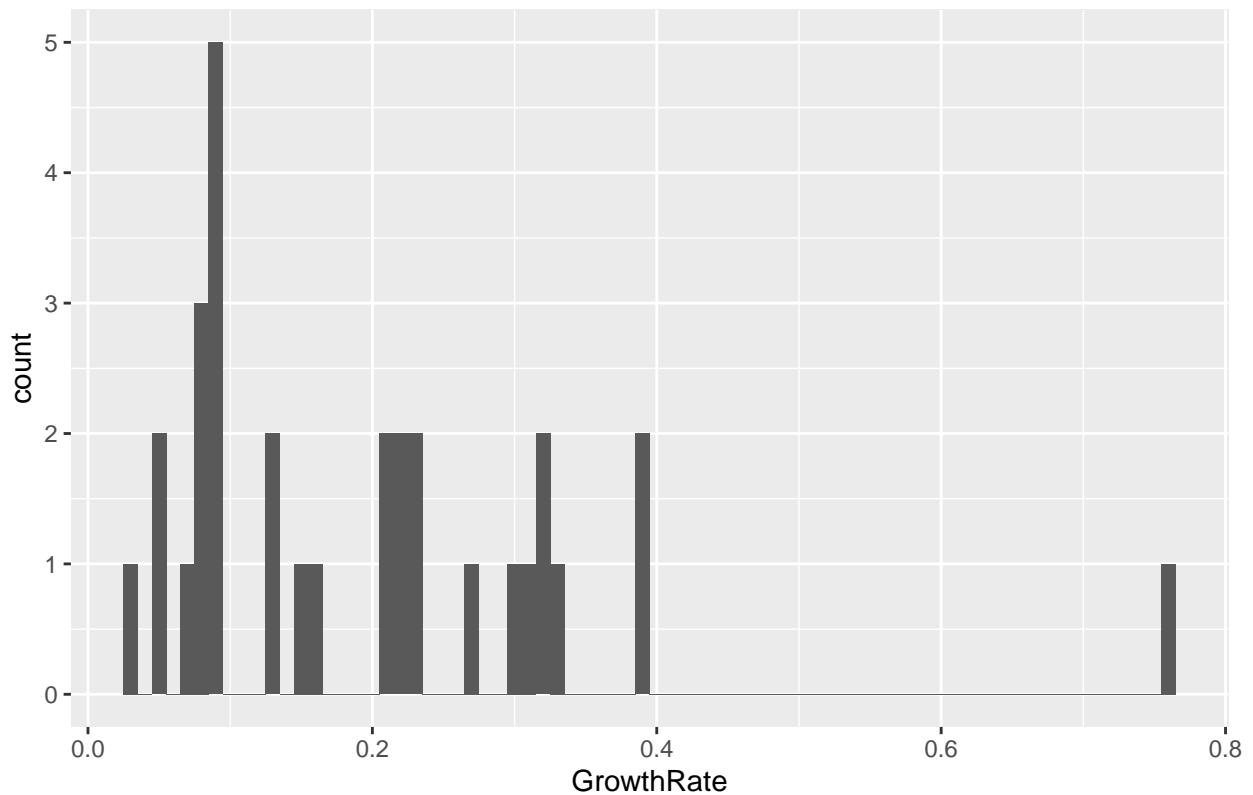
### US: Rate of change in Growth Rate



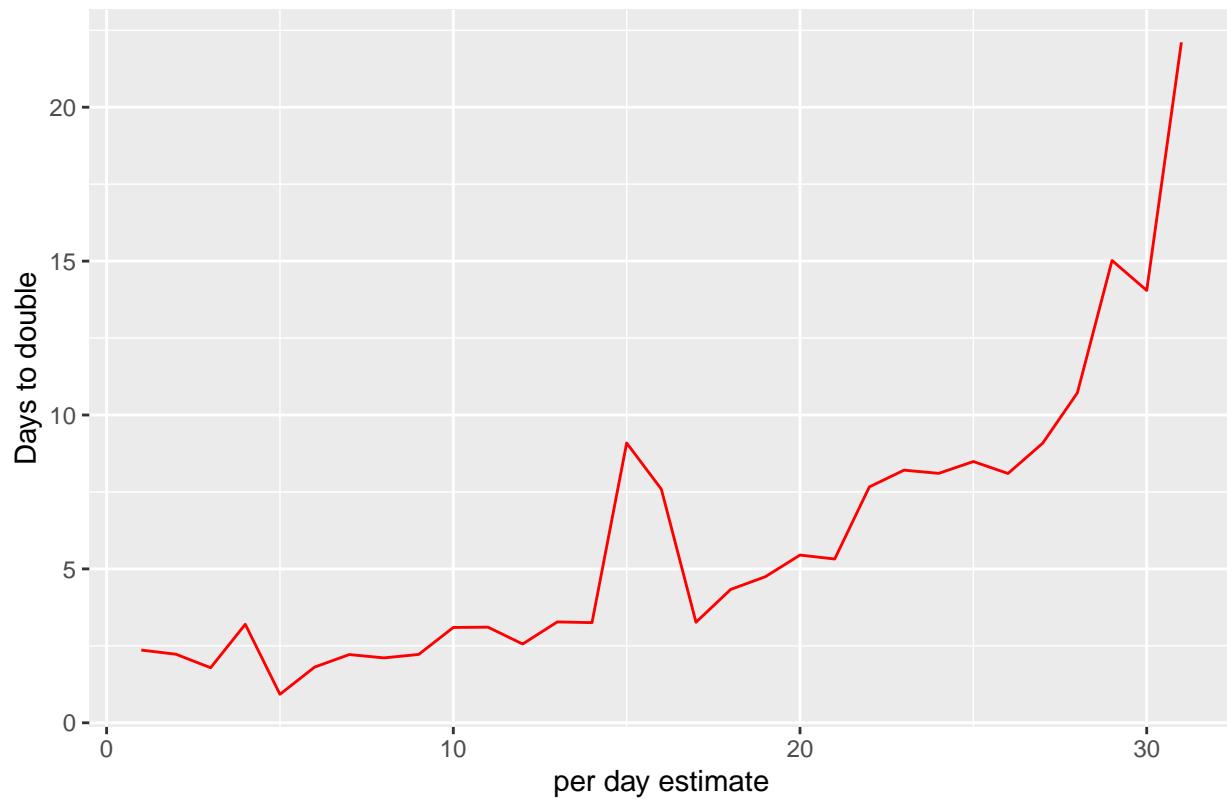
## US: Growth Rate



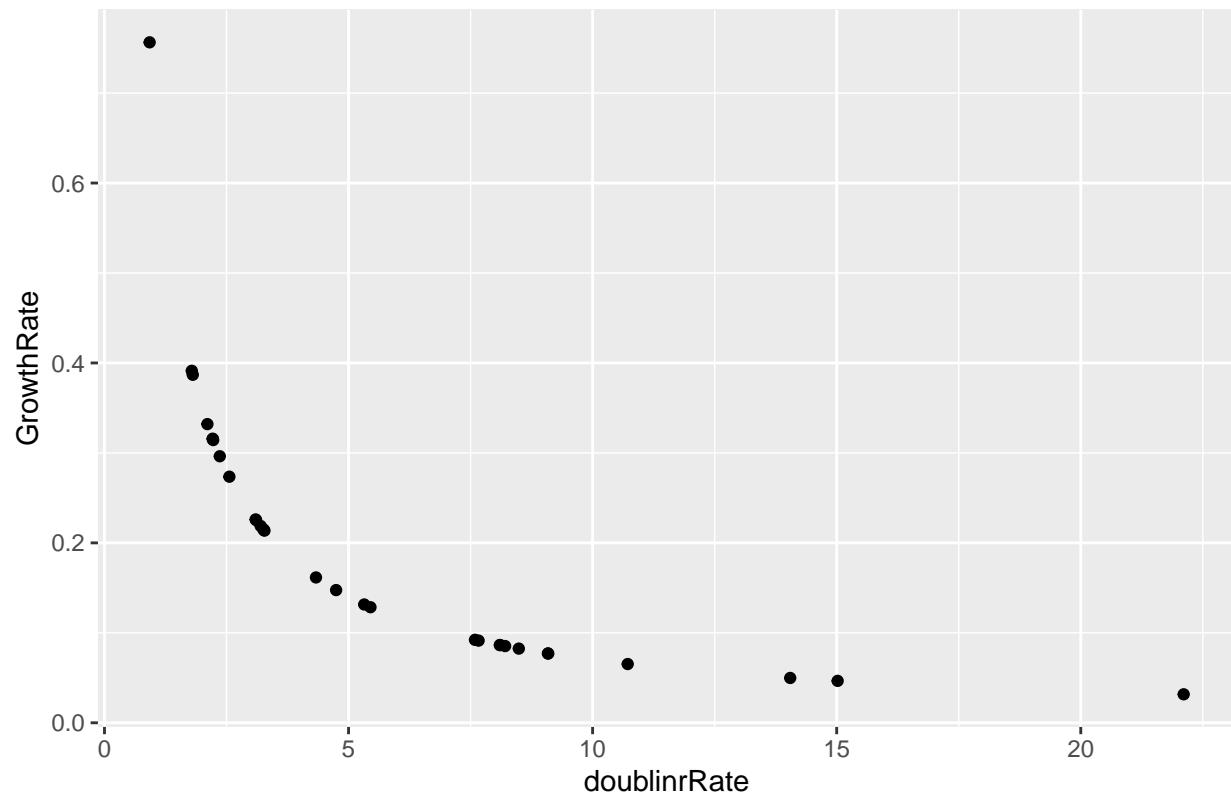
Histogram of GrowthRate



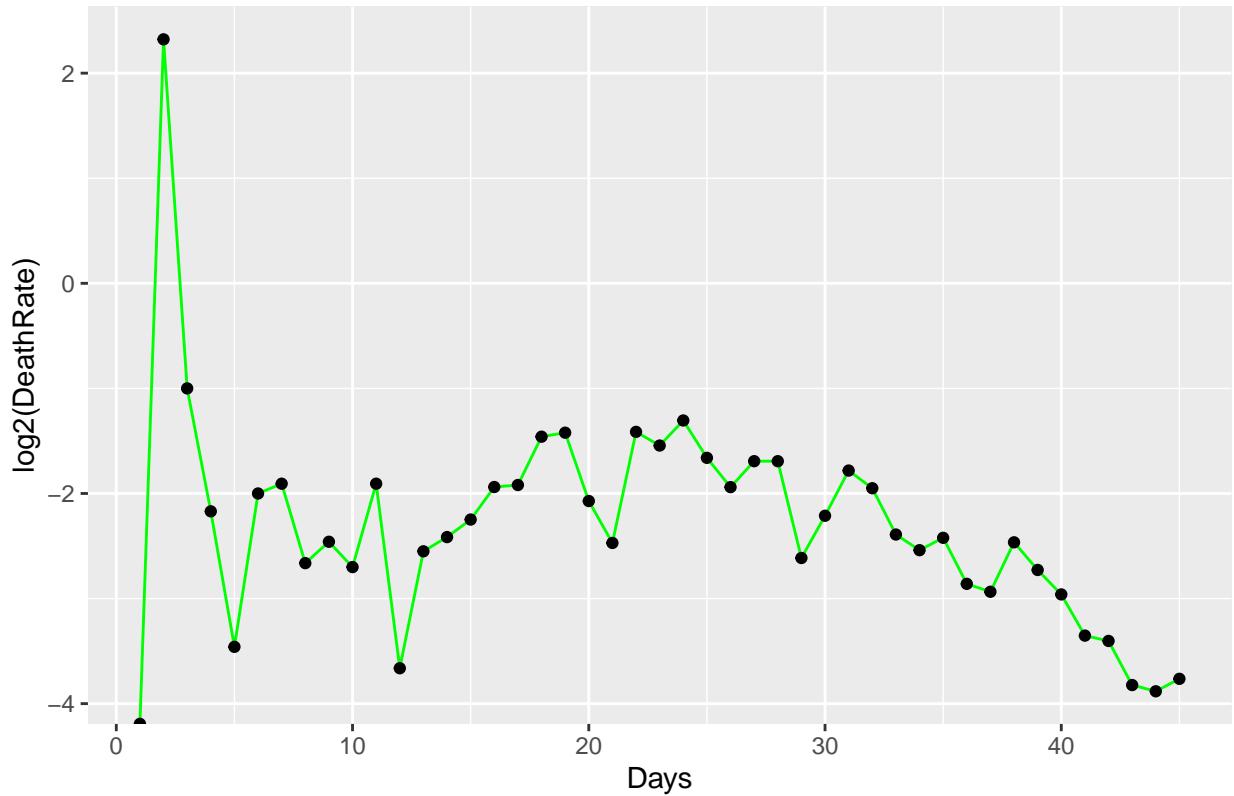
### Doubling Rate in days



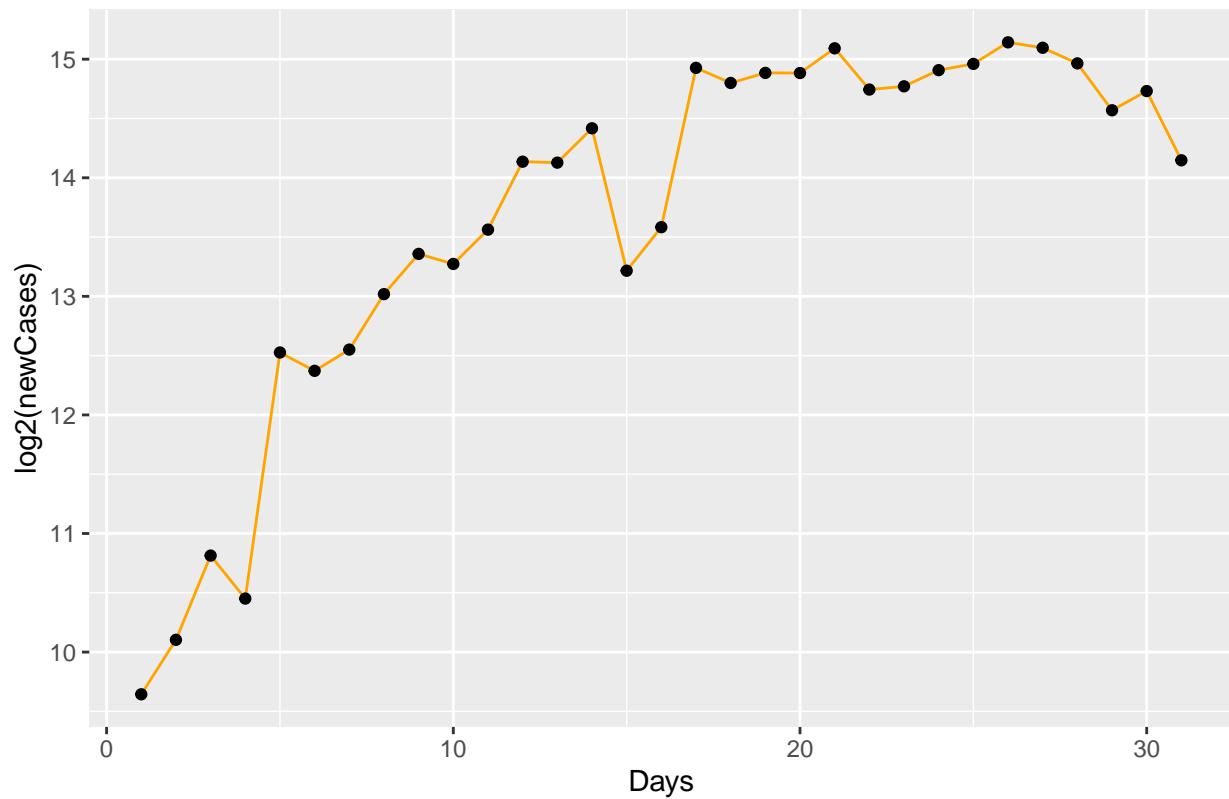
## Doubling Rate vs Growth Rate



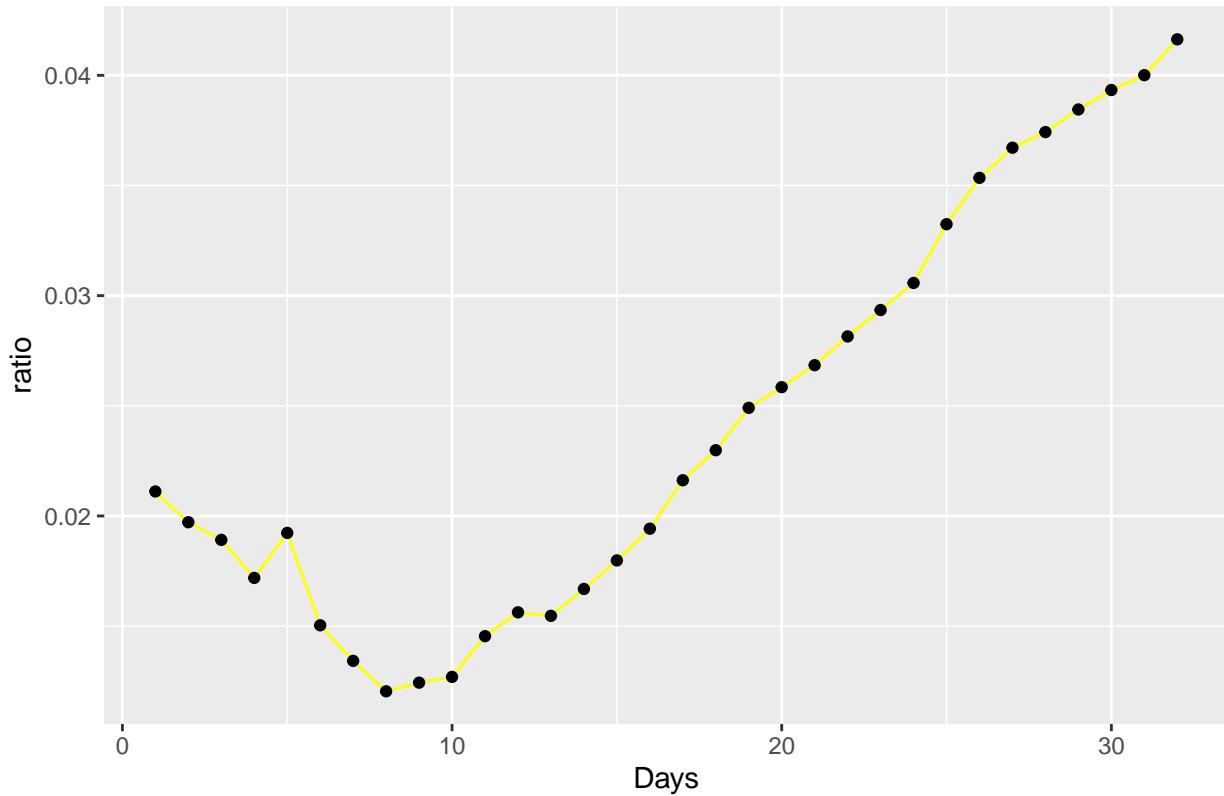
### US: Daily Death Rate



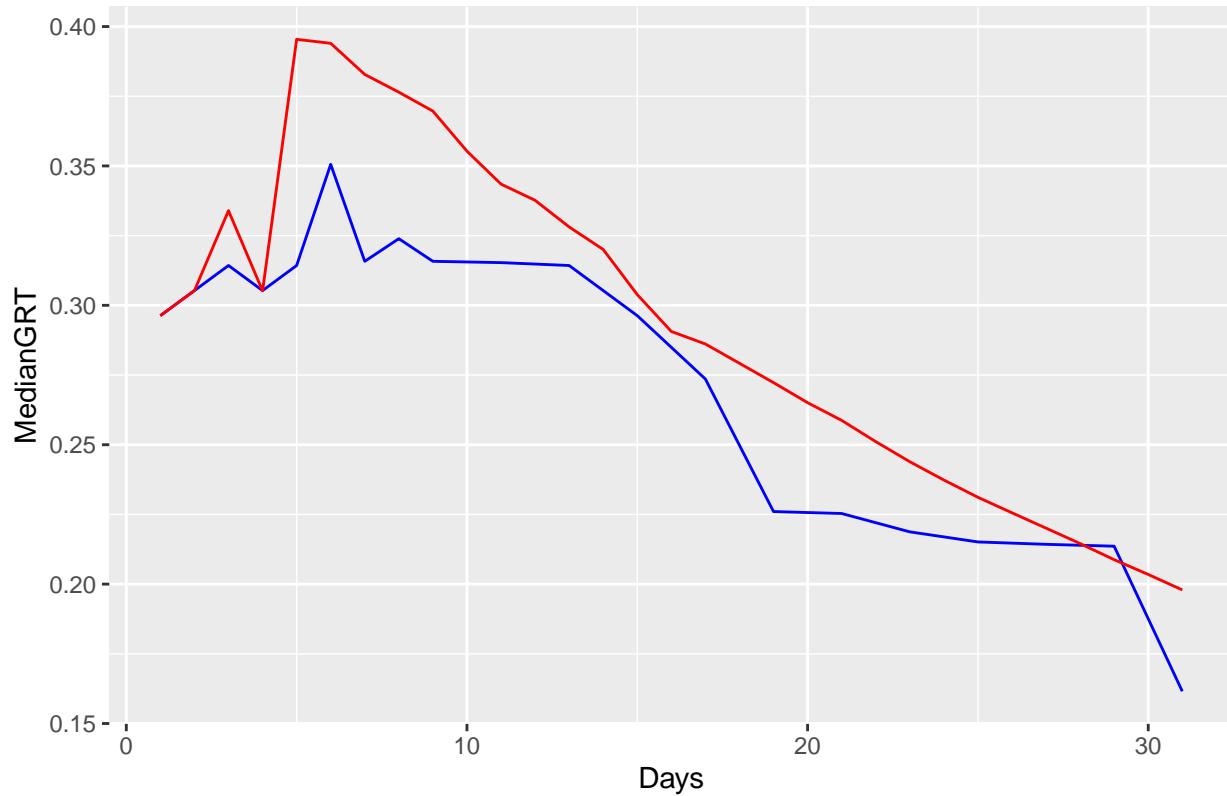
US:newCases(Orange)



### US: TotalDeaths/TotalCases



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

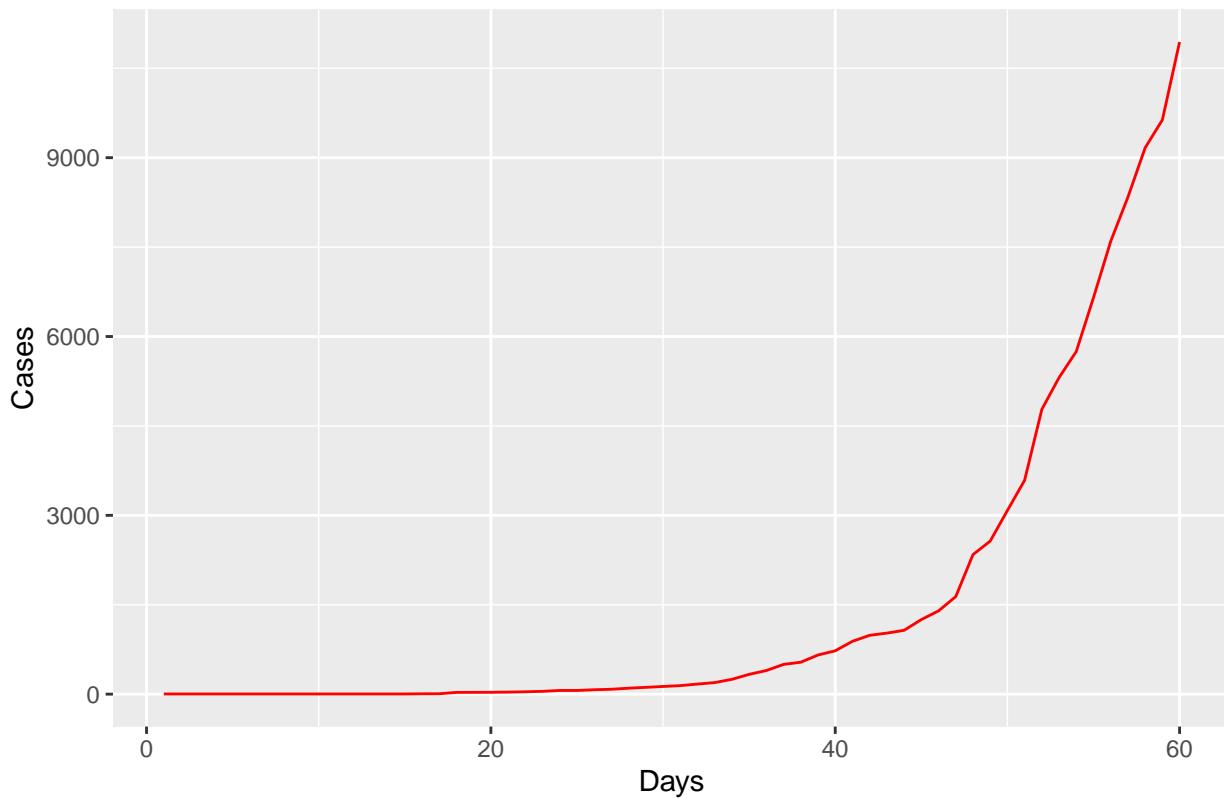


#### Results:

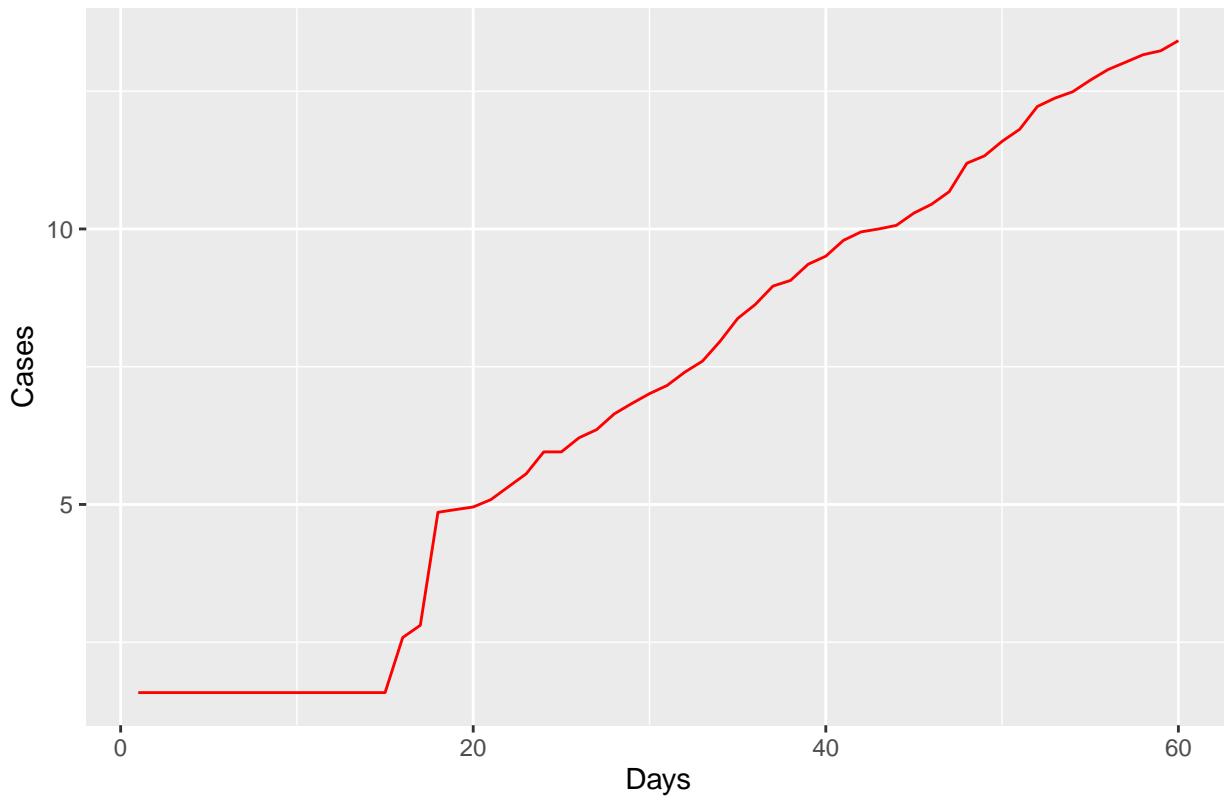
- Tomorrows predicted case number is between  $6.1000658 \times 10^5$  and  $7.083134 \times 10^5$  cases.
- Current doubling rate is **22 days**
- Mean doubling rate, i.e number of cases doubles every **4 days**.
- Median doubling rate, i.e number of cases doubles every **4 days**.
- Latest Observed Growth Rate **3.1662532** percent.
- Mean Growth Rate: **19.7922154** percent.
- Median Growth Rate: **16.1552929** percent.
- Standard deviation: +/- **14.9240277**.

## India Corona Dashboard

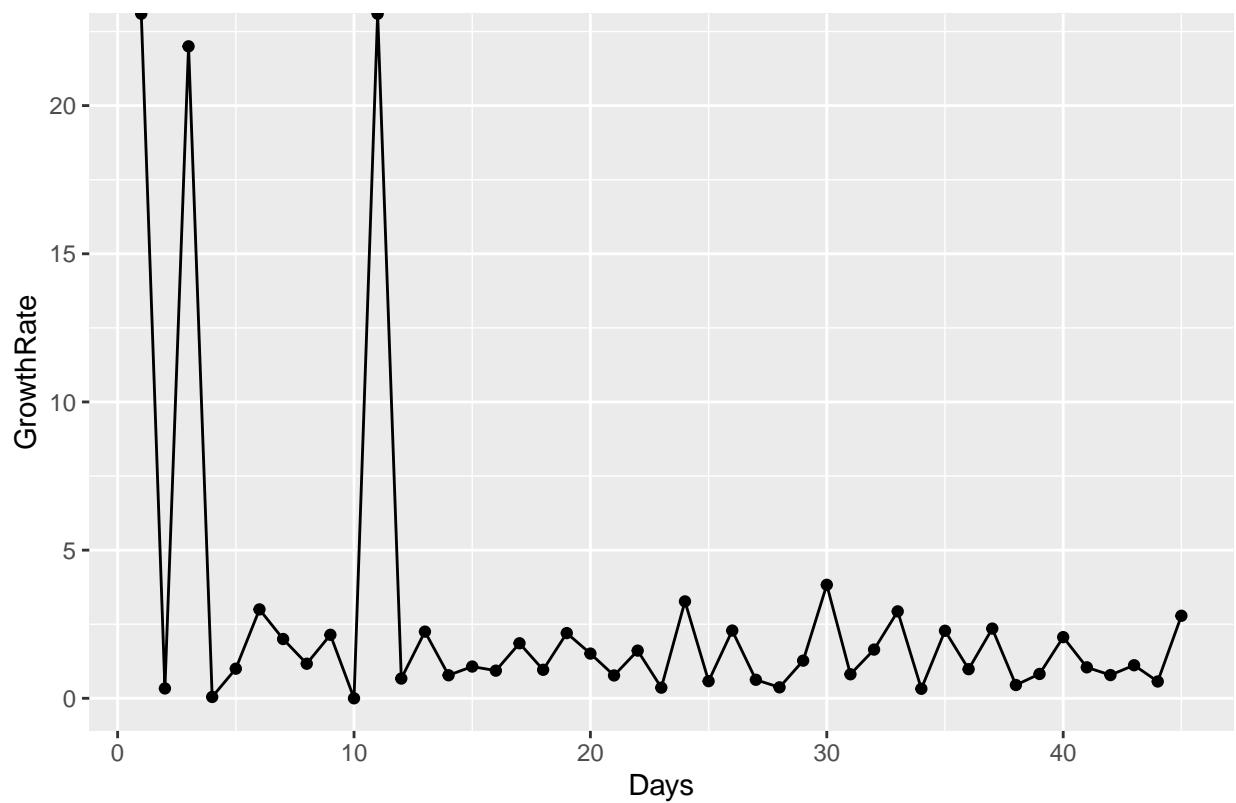
### India: Daily Cases



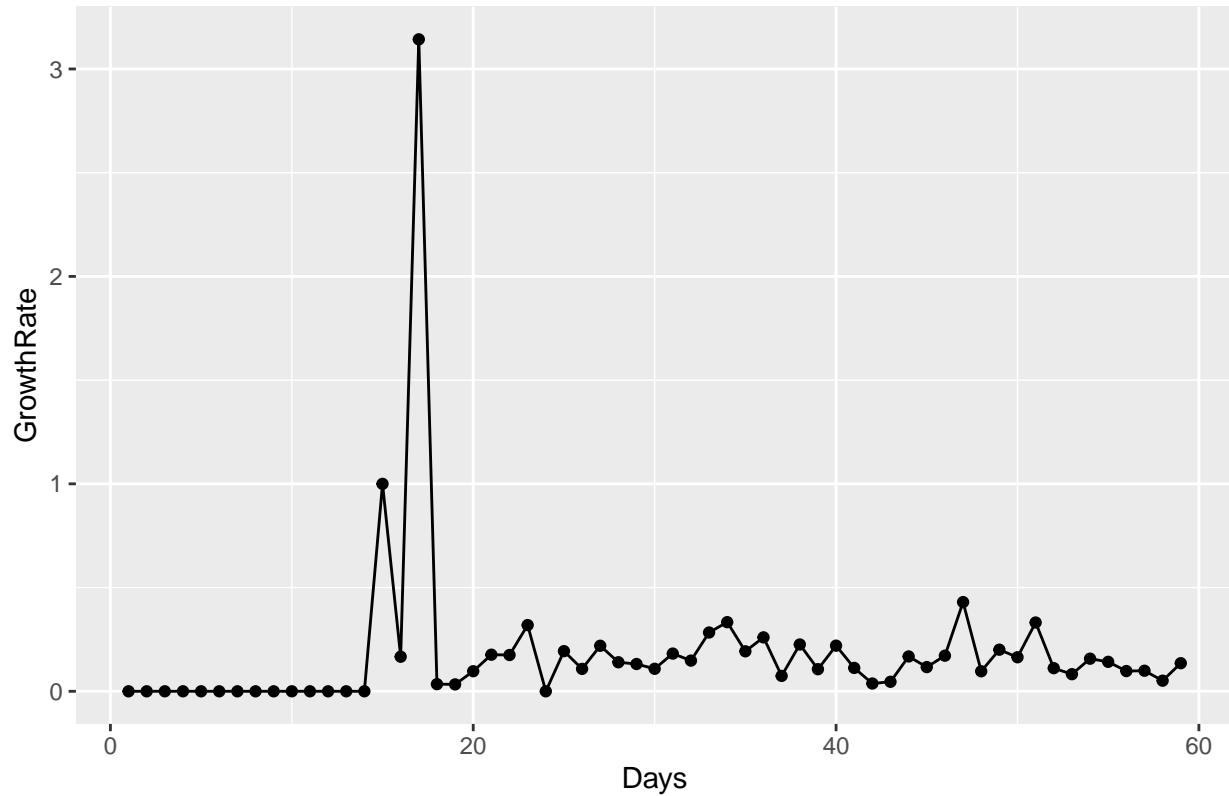
### India: Daily Cases



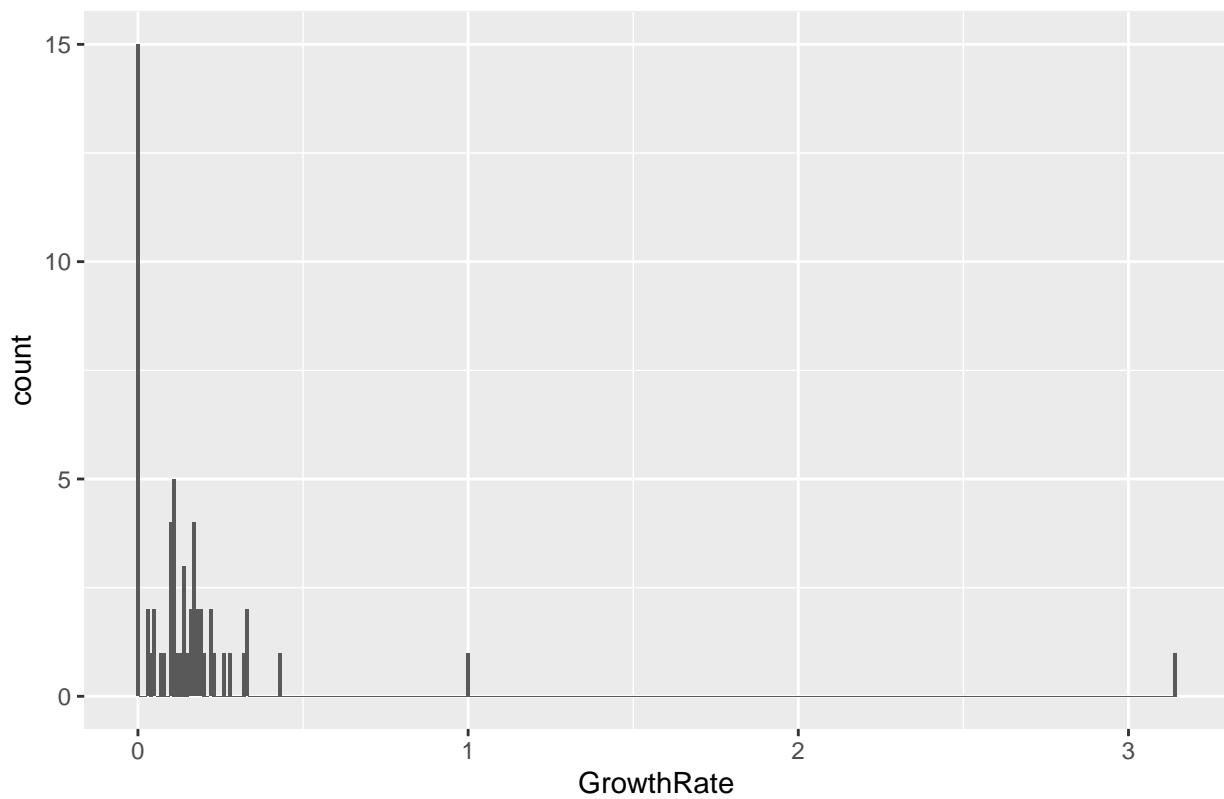
### US: Rate of change in Growth Rate



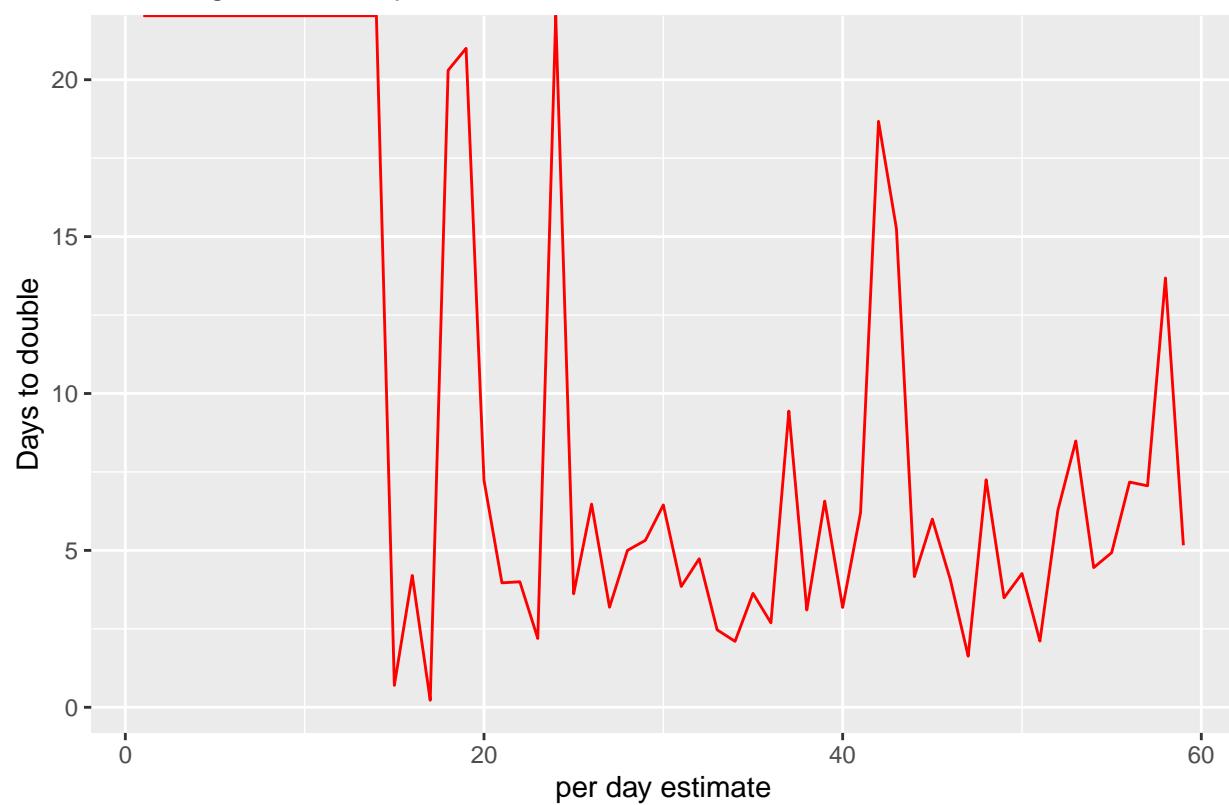
## India: Growth Rate



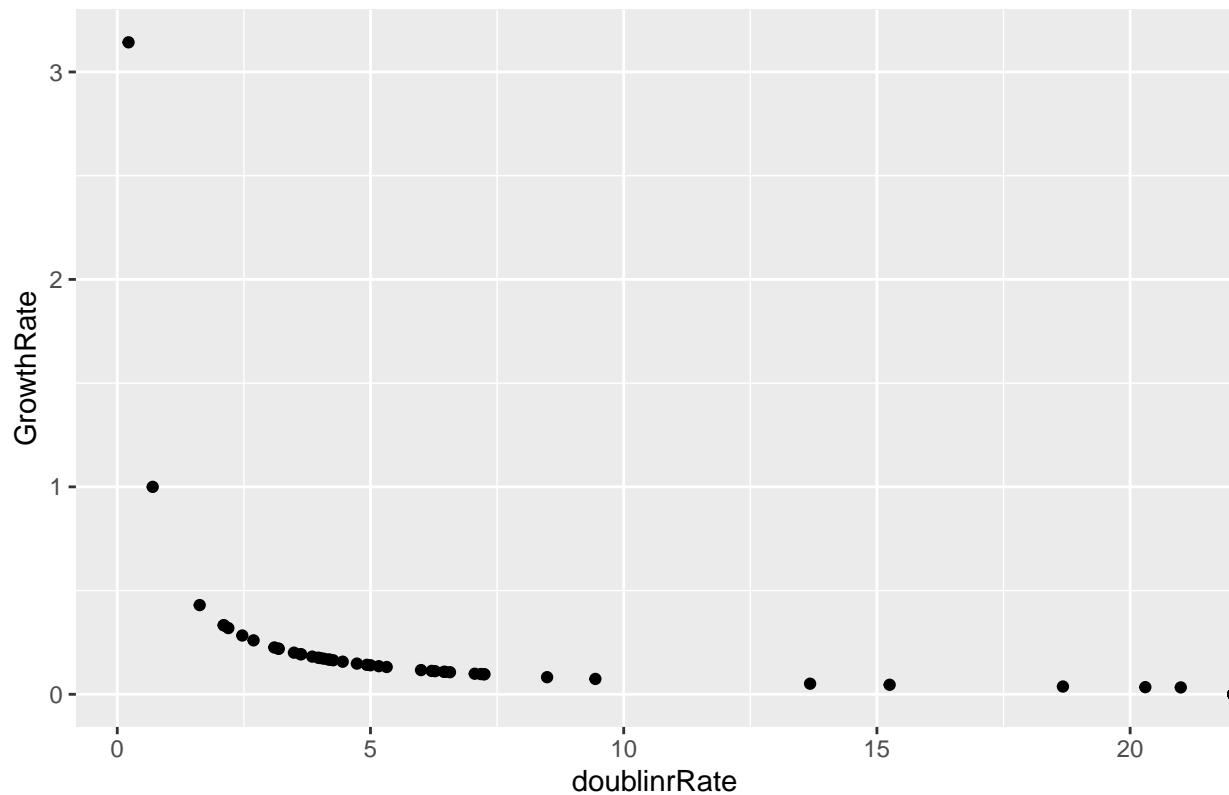
Histogram of GrowthRate



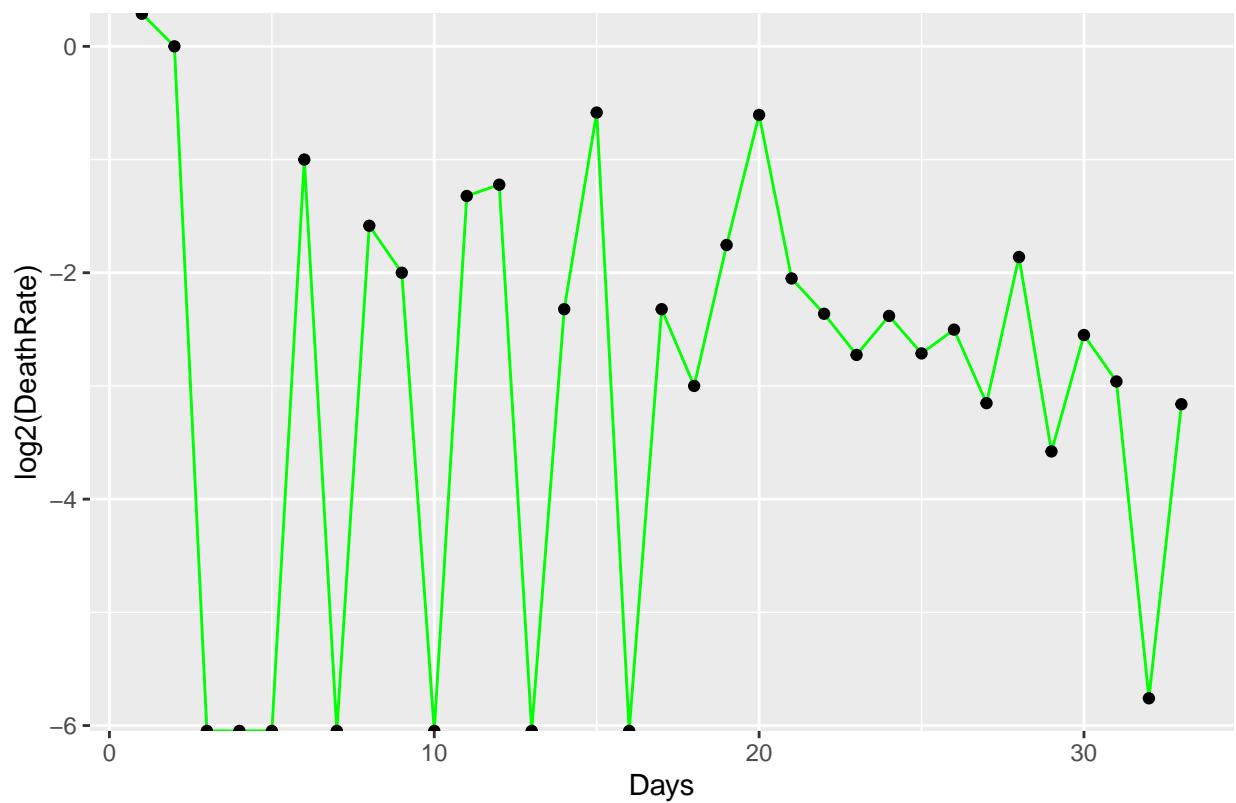
### Doubling Rate in days



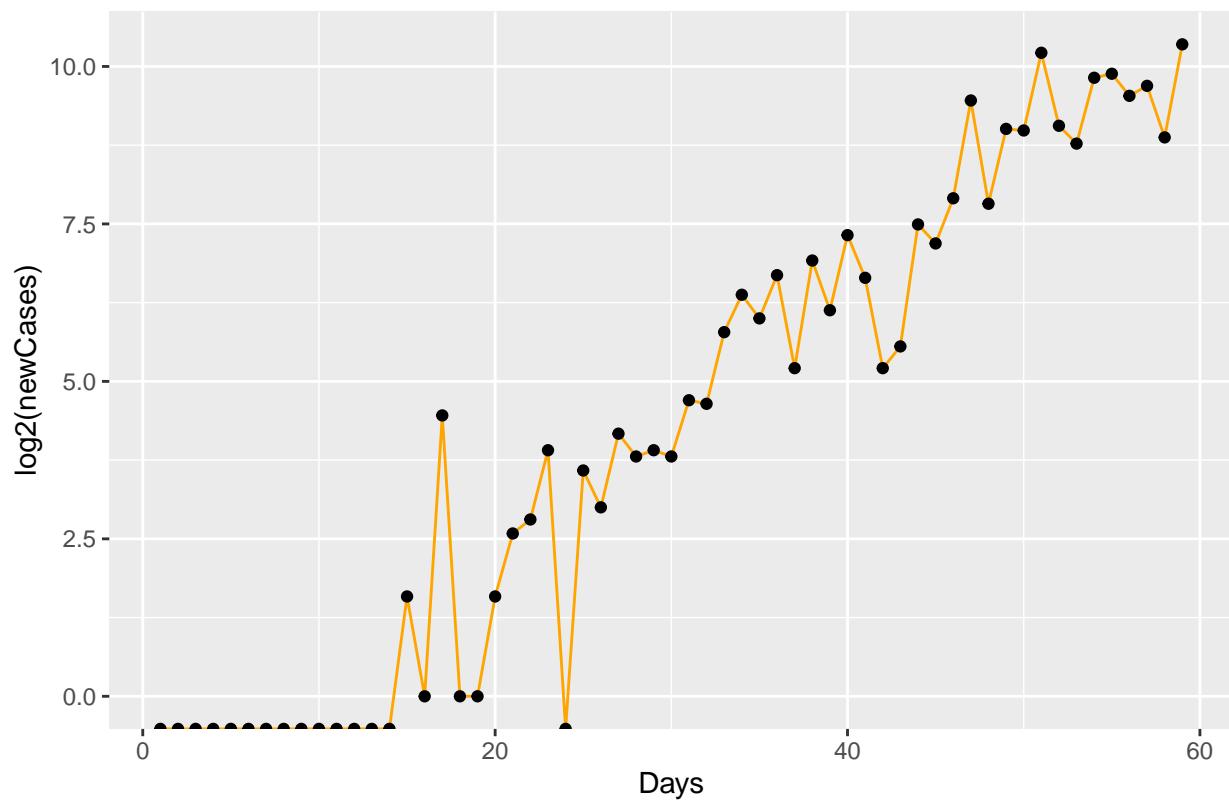
## Doubling Rate vs Growth Rate



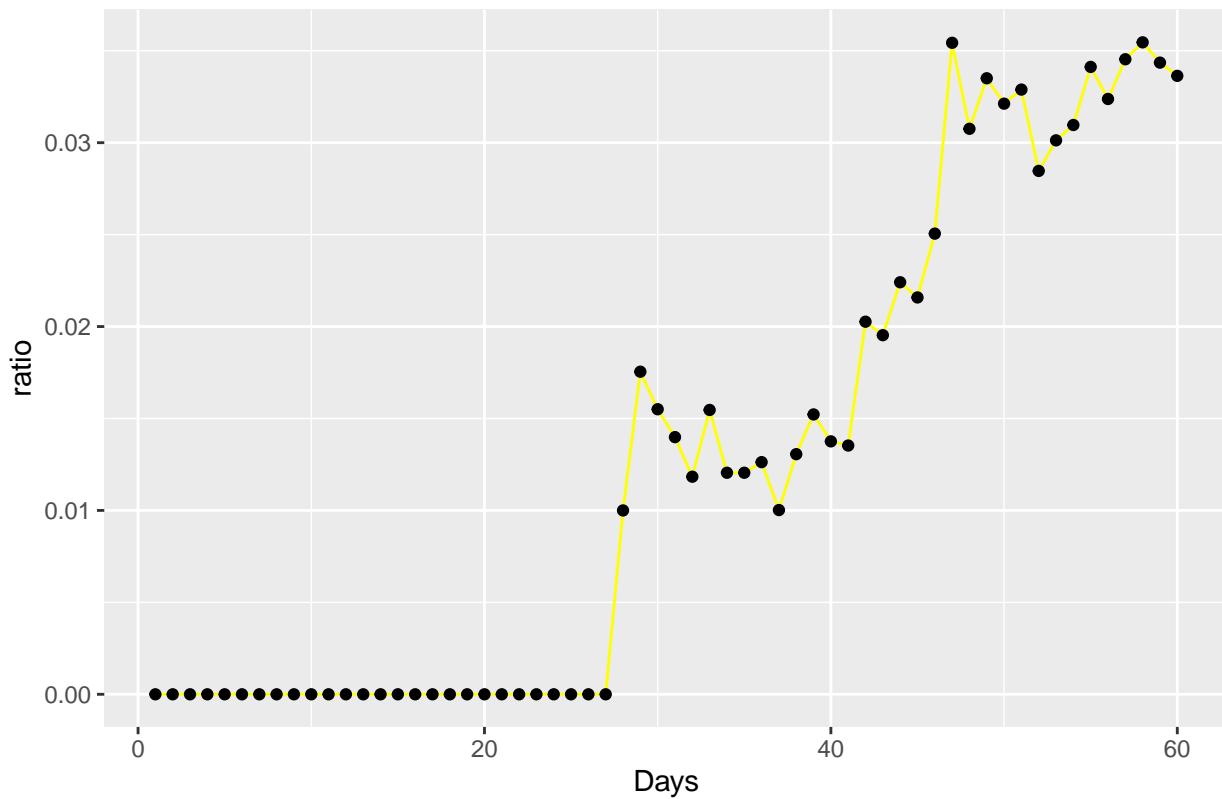
### India: Daily Death Rate



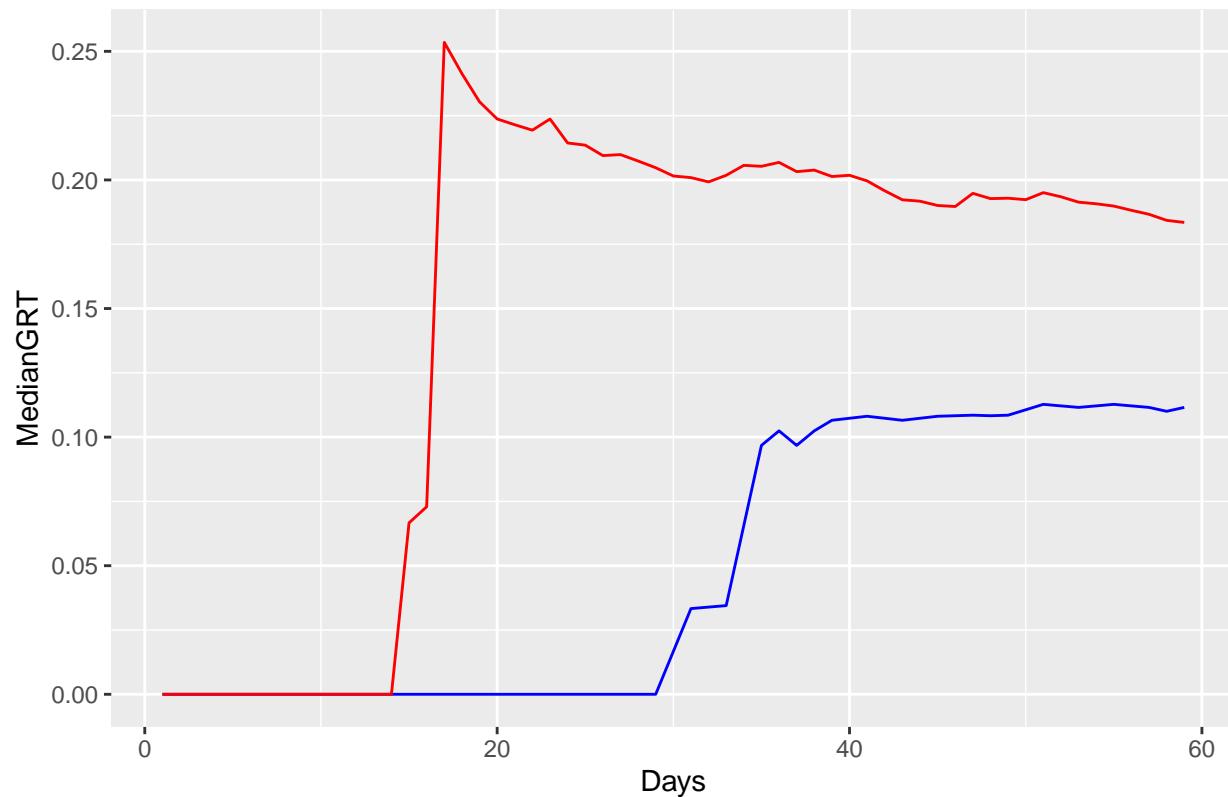
India:newCases(Orange)



### India: TotalDeaths/TotalCases



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



#### Results:

- Tomorrows predicted case number is between  $1.2424025 \times 10^4$  and  $1.2948296 \times 10^4$  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 **13.5547483** percent.
- Mean Growth Rate: **18.3465504** percent.
- Median Growth Rate: **11.1552951** percent.
- Standard deviation: +/- **42.0831955**.