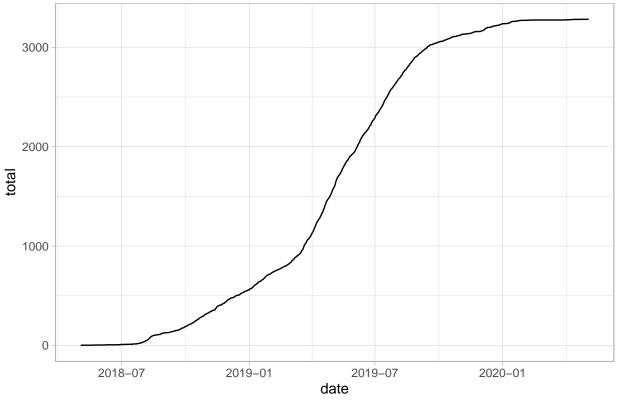
# Ebola Forecasting Analysis

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8/13/2020

## Actual Recorded DRC Ebola Cases

#### Actual Recorded DRC Ebola Cases



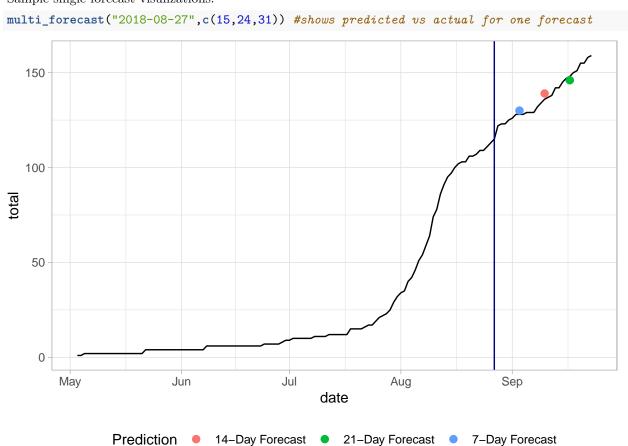
```
max(ymd("2020-09-23","2020-10-12","2019-12-30"))
```

## [1] "2020-10-12"

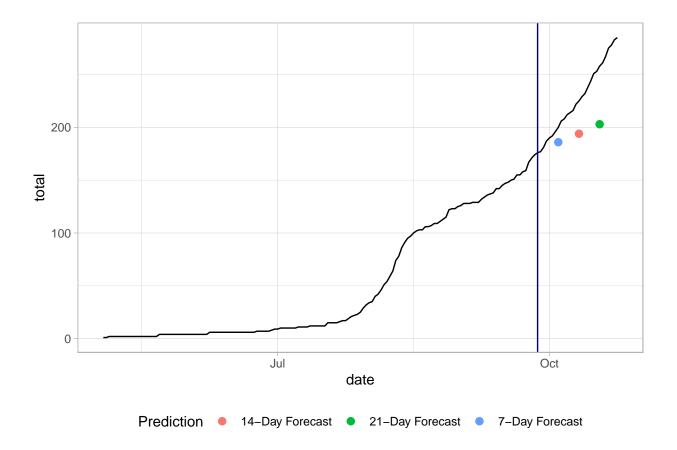
## **Accuracy of Hawkes Projections**

### Single Forecast Visualization

Sample single forecast visulizations.



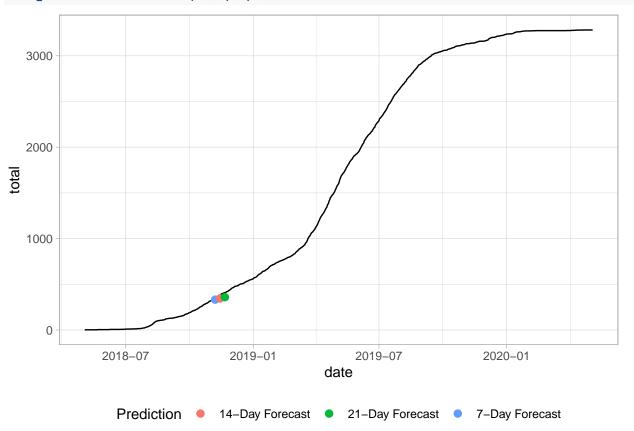
multi\_forecast("2018-09-27",c(10,18,27)) #shows predicted vs actual for one forecast



### Single Forecast Visualization for Entire Outbreak

Shows predicted vs actual for one forecast with respect to entire outbreak.

full\_forecast("2018-10-31",c(15,28,42))



#### Forecasts vs Actual in 2018

Monthly forecasts during all available data in 2018.

```
title <- "Forecasts vs Actual in 2018"

dv <- c("2018-08-27","2018-09-27","2018-10-31","2018-11-29","2018-12-30")

mt <- cbind(c(15,24,31),c(10,18,27),c(15,28,42),c(15,29,41),c(21,40,60))

multi_forecast(dv, mt, title = title)
```

### Forecasts vs Actual in 2018

