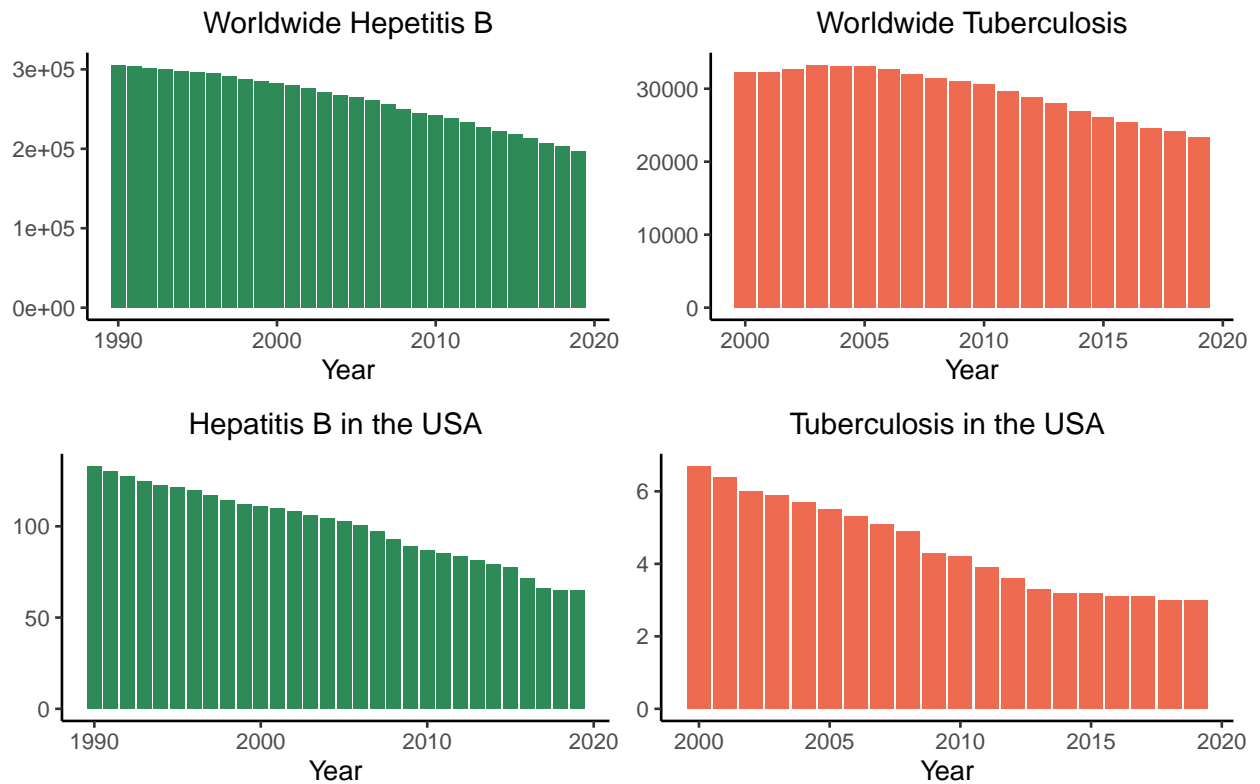


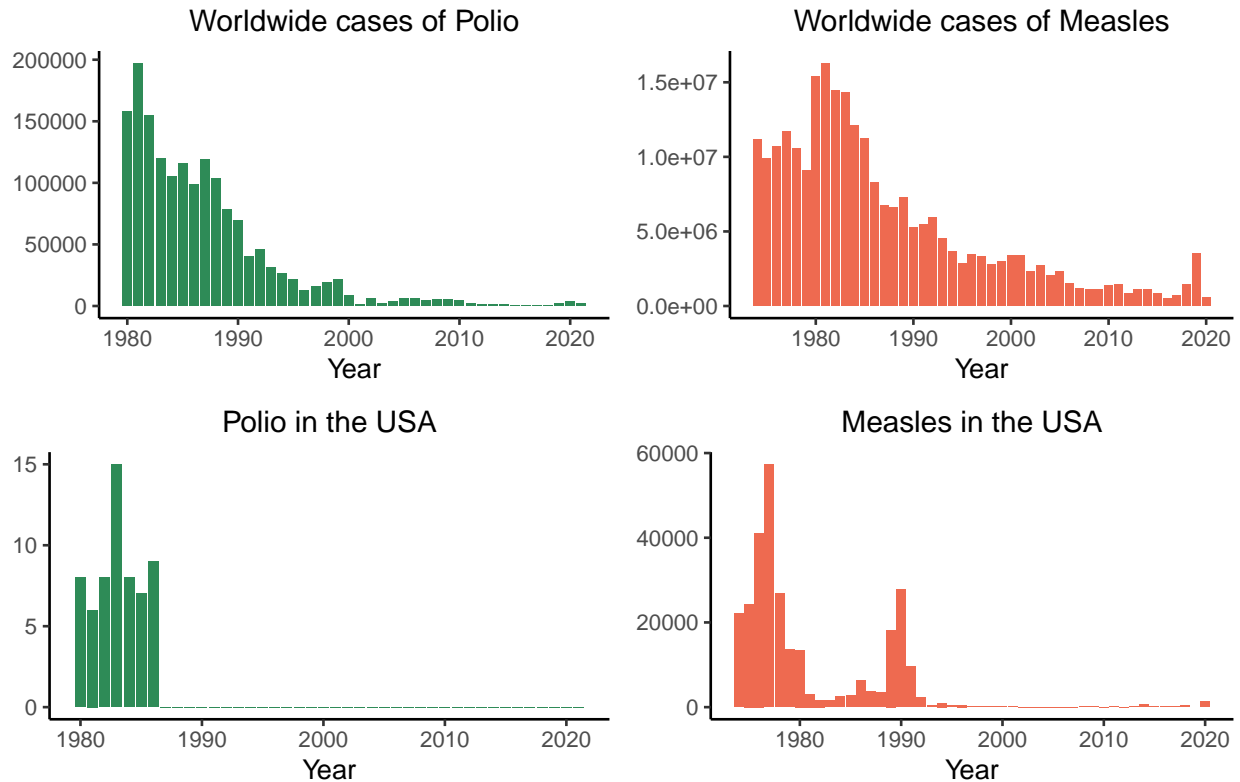
ProjectDBM

Shika, Kevin, Laura

Distribution of diseases

Cases per year across the world and Cases per year in US





Measles vs every other attribute

- Life expectancy and adult mortality do not seem to have a pattern
- Infant deaths do seem to have a linear relationship with measles cases
- Polio immunization vs Measles cases have an interesting graph it does look like a somewhat negative relationship which would make sense.
- Youth Thinness vs Measles seem to have somewhat a linear relationship

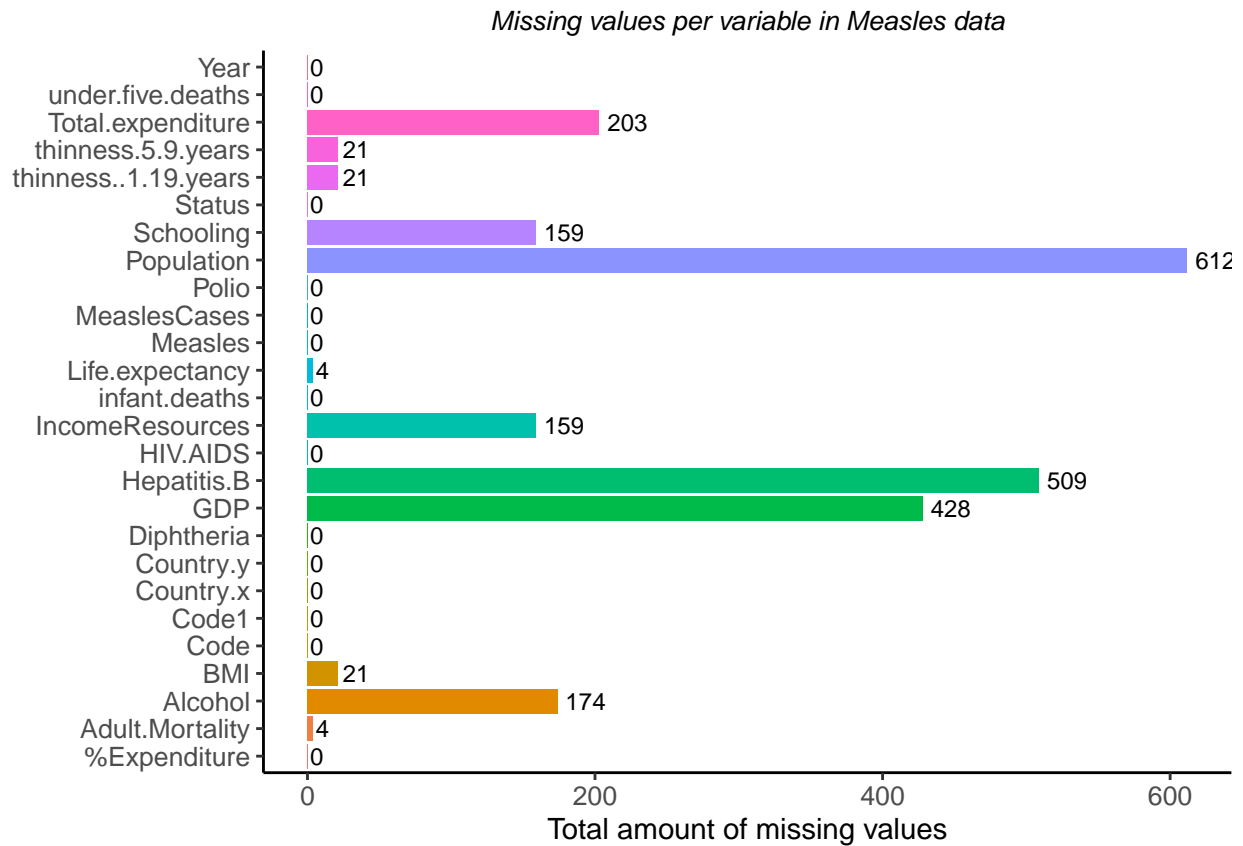
HepatitisB vs all other attributes

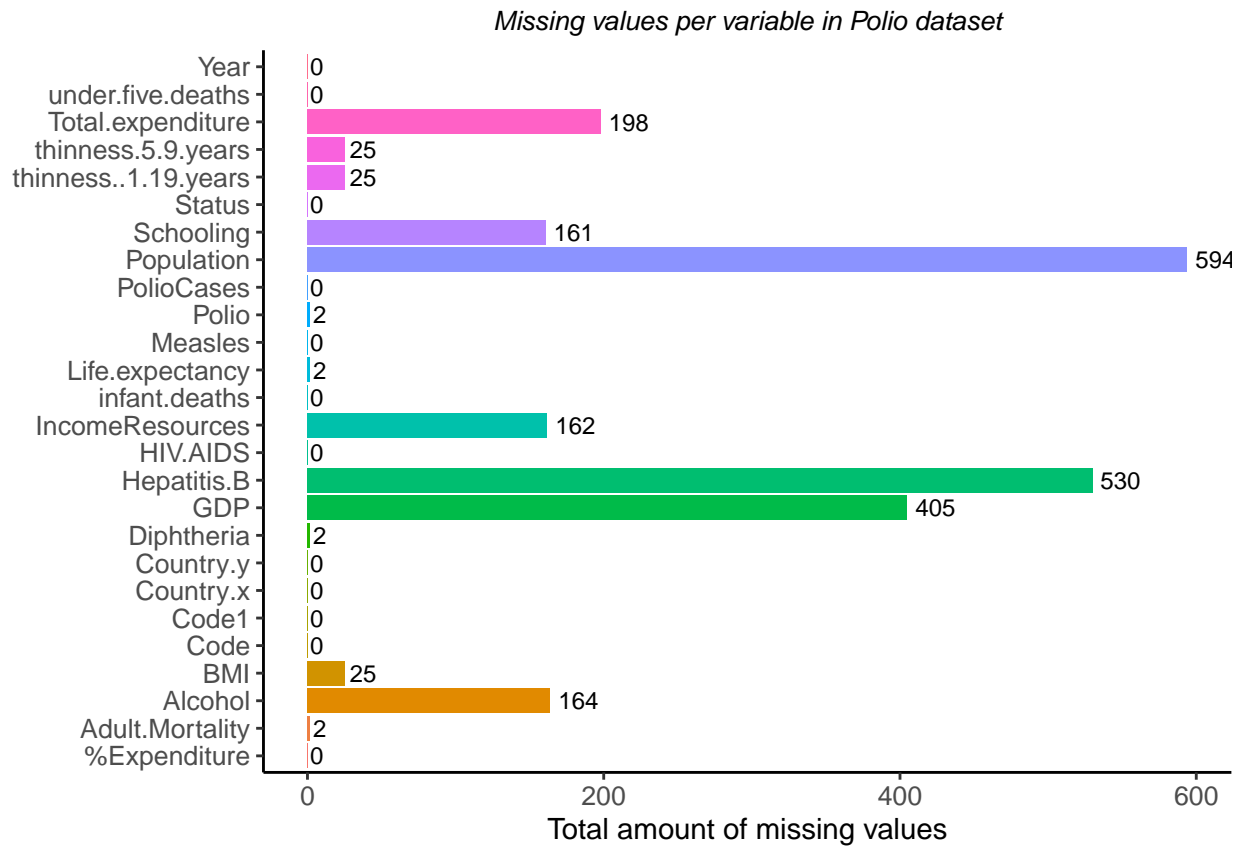
- Adult mortality and hepatitis do have a linear relationship!
- There is also a negative relationship between life expectancy and a measles.
- The more measles cases the lower the life expectancy; The lower or no measles cases lead to higher life expectancy.
- There is also a negative relationship with BMI.
- **There seems to be a relationship, positive, between HIV and hepatitis.**
- There is a negative relationship between diphtheria and Hepatitis
- Schooling vs Hepatitis b have a negative relationship
- Youth thinness does have a positive relationship with hepatitis which makes sense

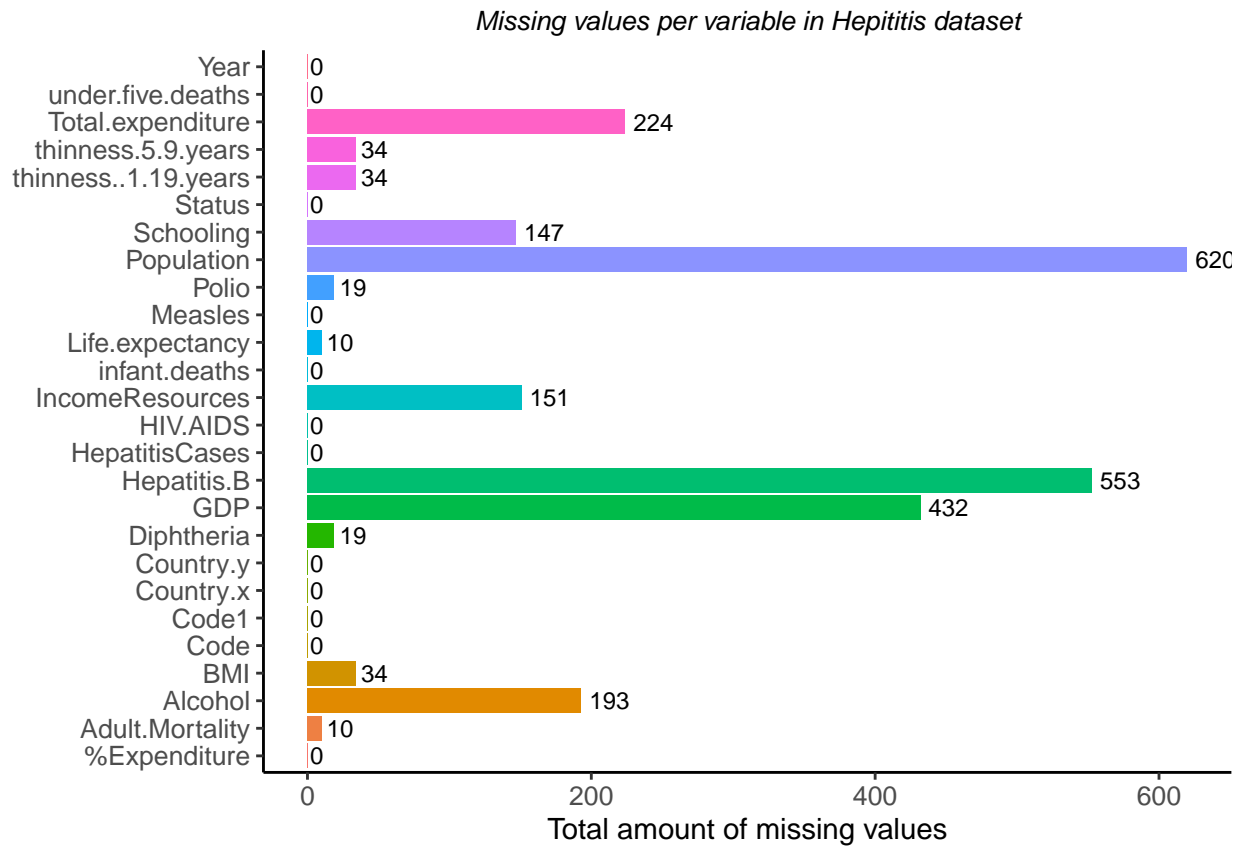
Tuberculosis vs all other attributes

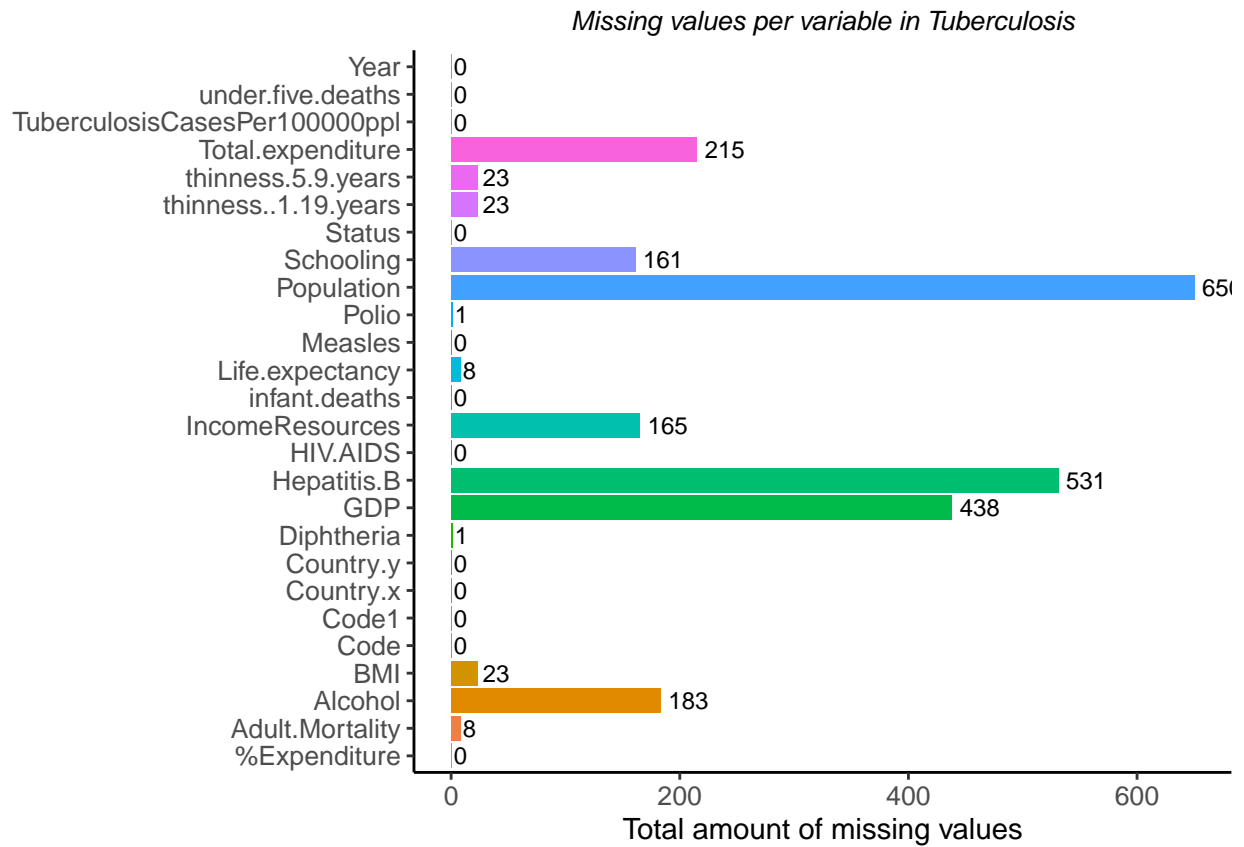
- Life Expectancy has a negative relationship with Tuberculosis

- Adult mortality has a positive relationship with Tuberculosis. The more cases the more changes of dying earlier in age.
- No relationship with BMI
- Immunization of polio vs tuberculosis seem to have a negative relationship
- Diphtheria also has a negative relationship with Tuberculosis.
- Tuberculosis has a positive relationship with HIV.AIDS



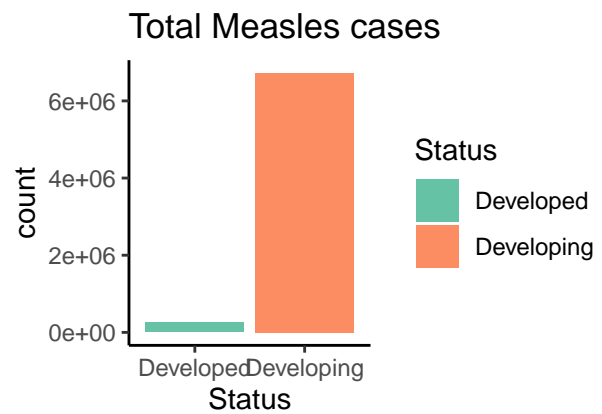
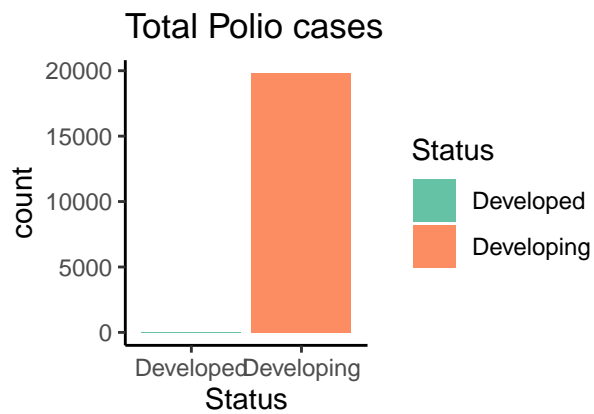
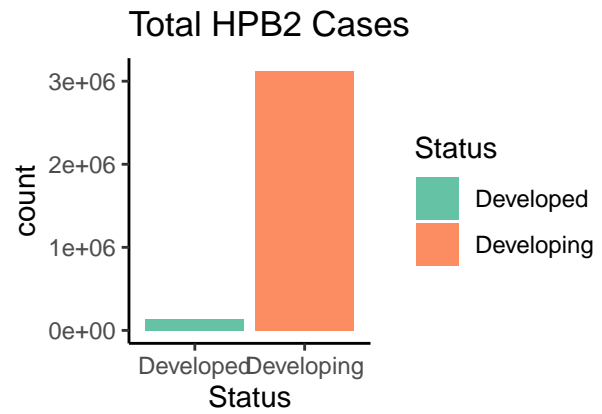
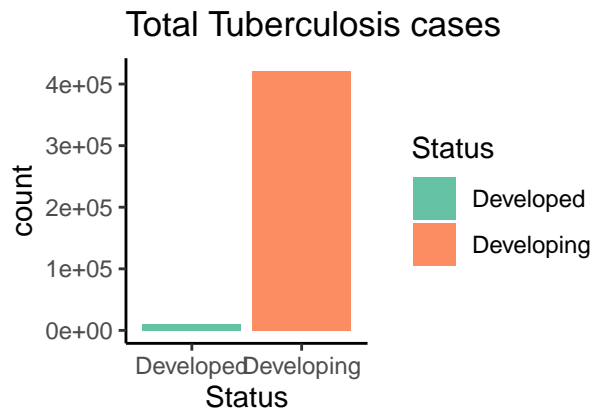


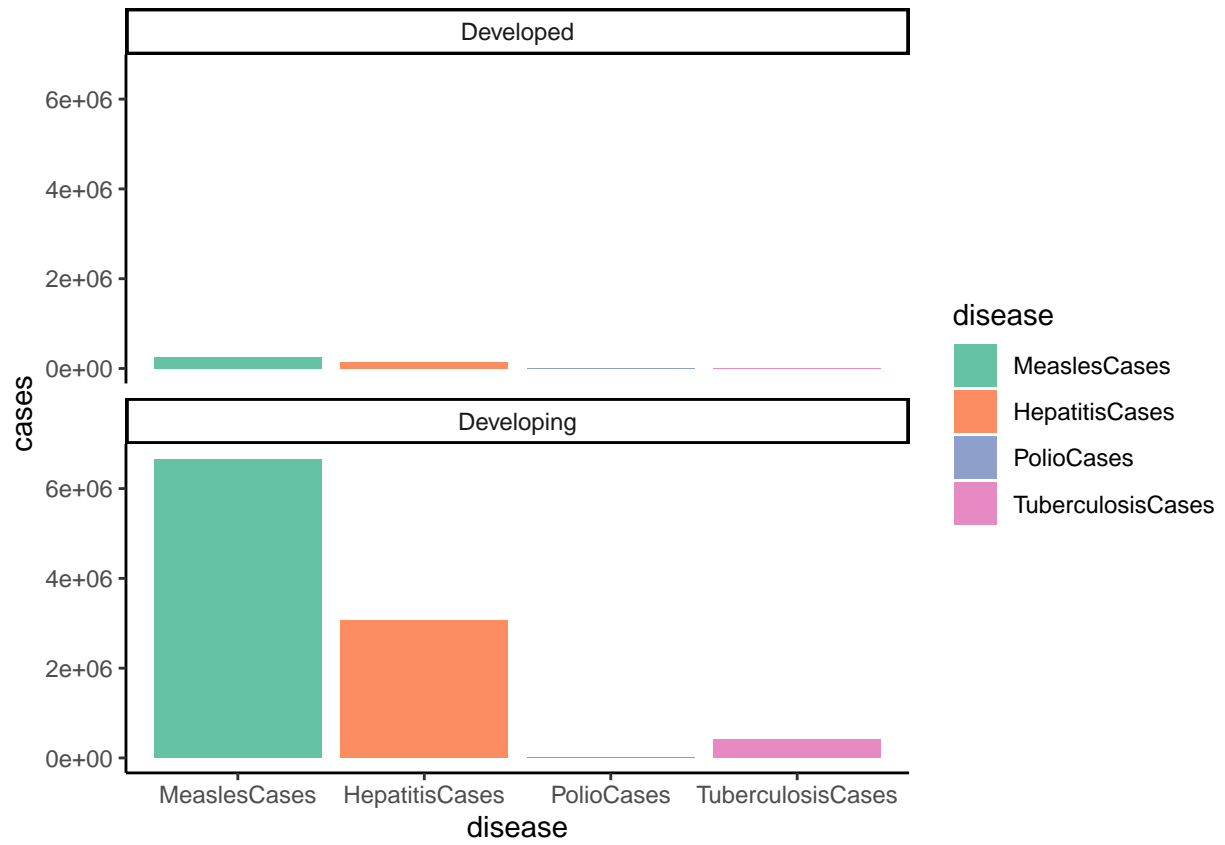


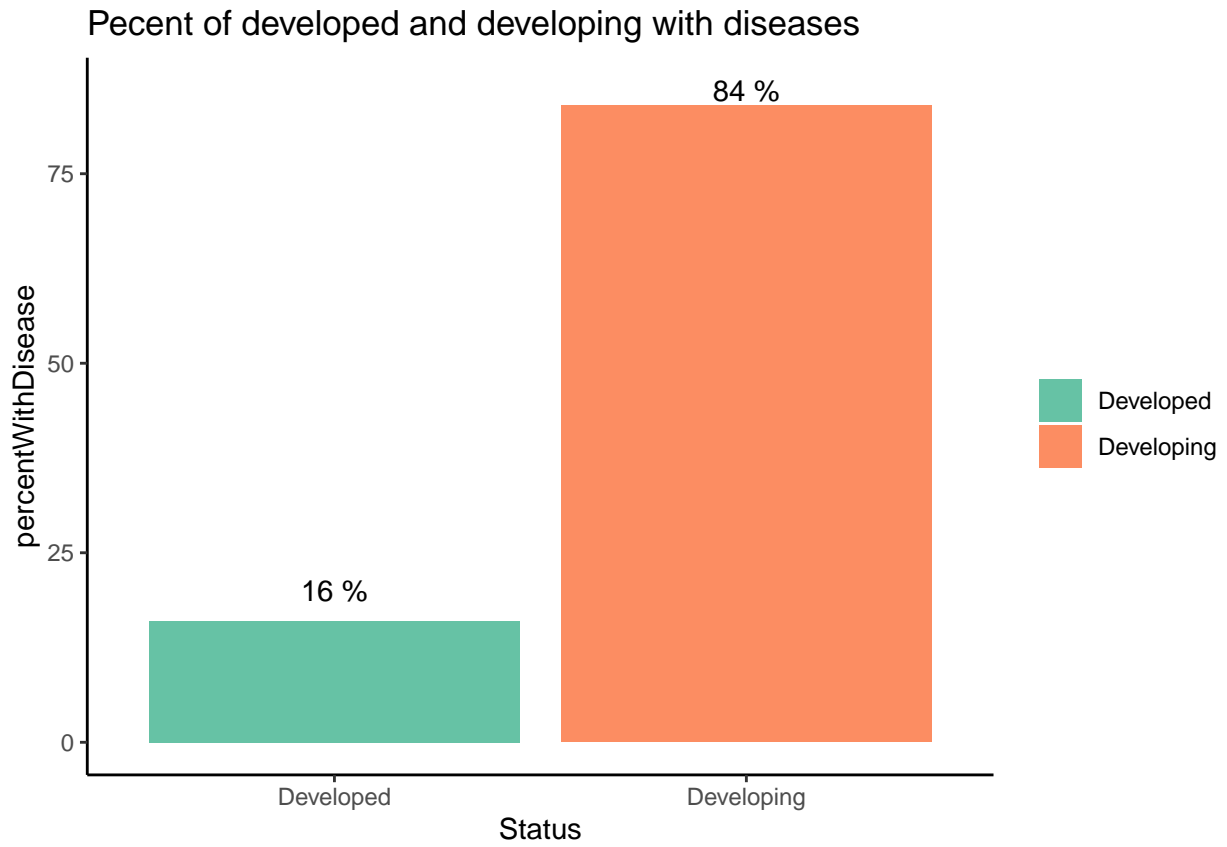


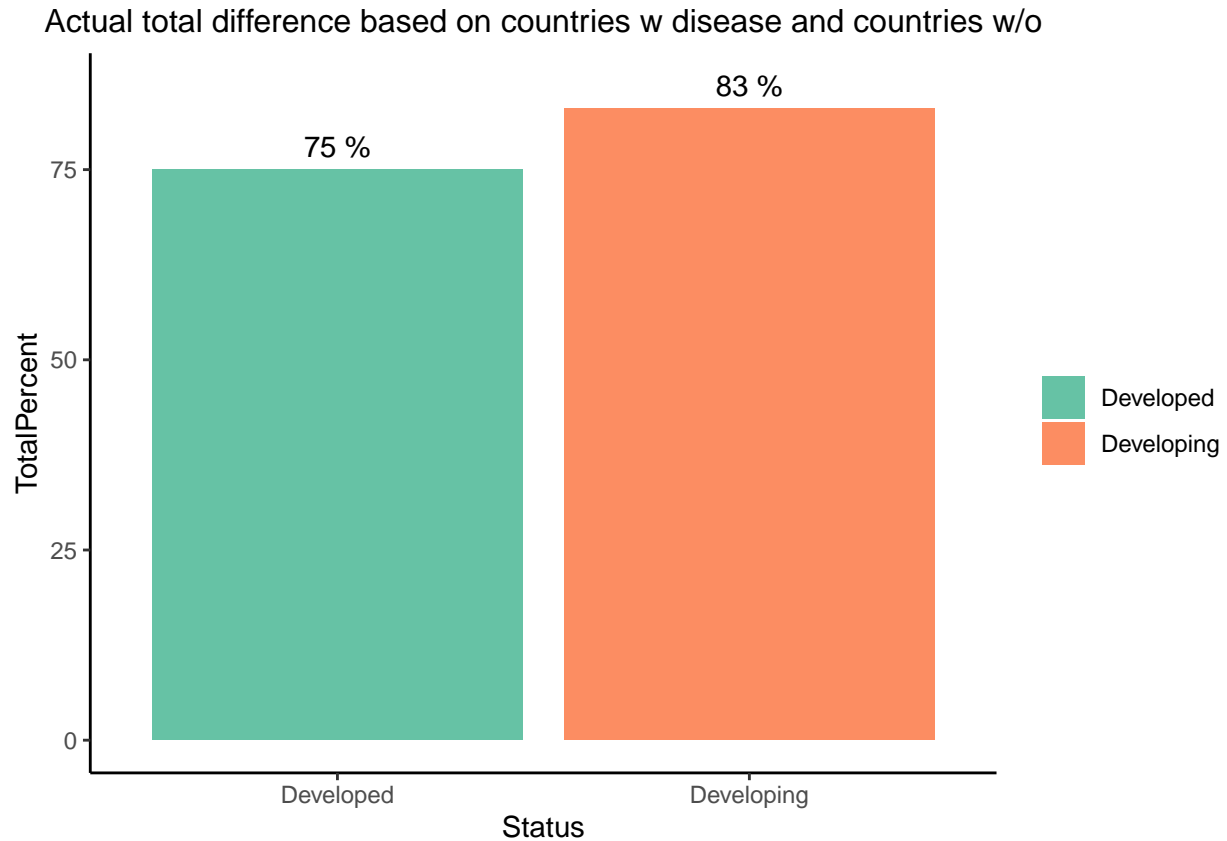
Developed vs developing

or



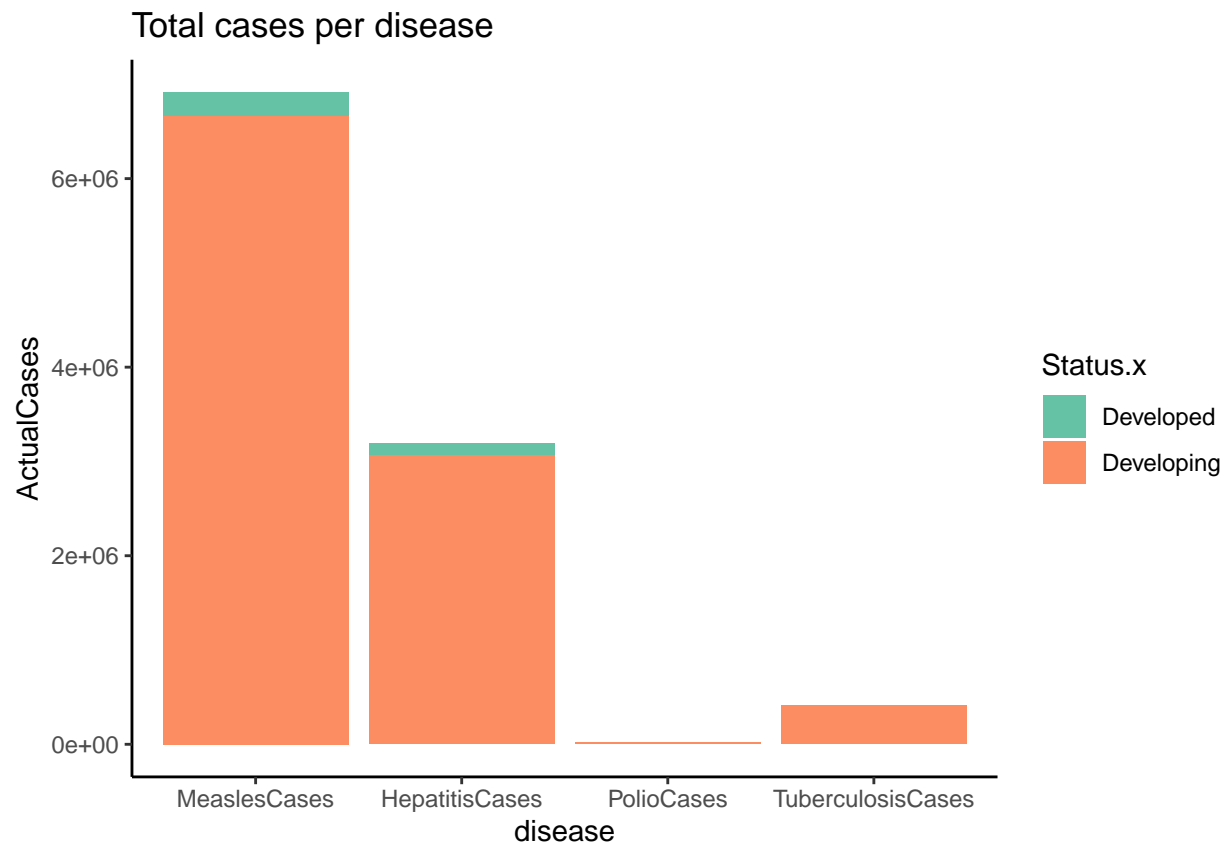


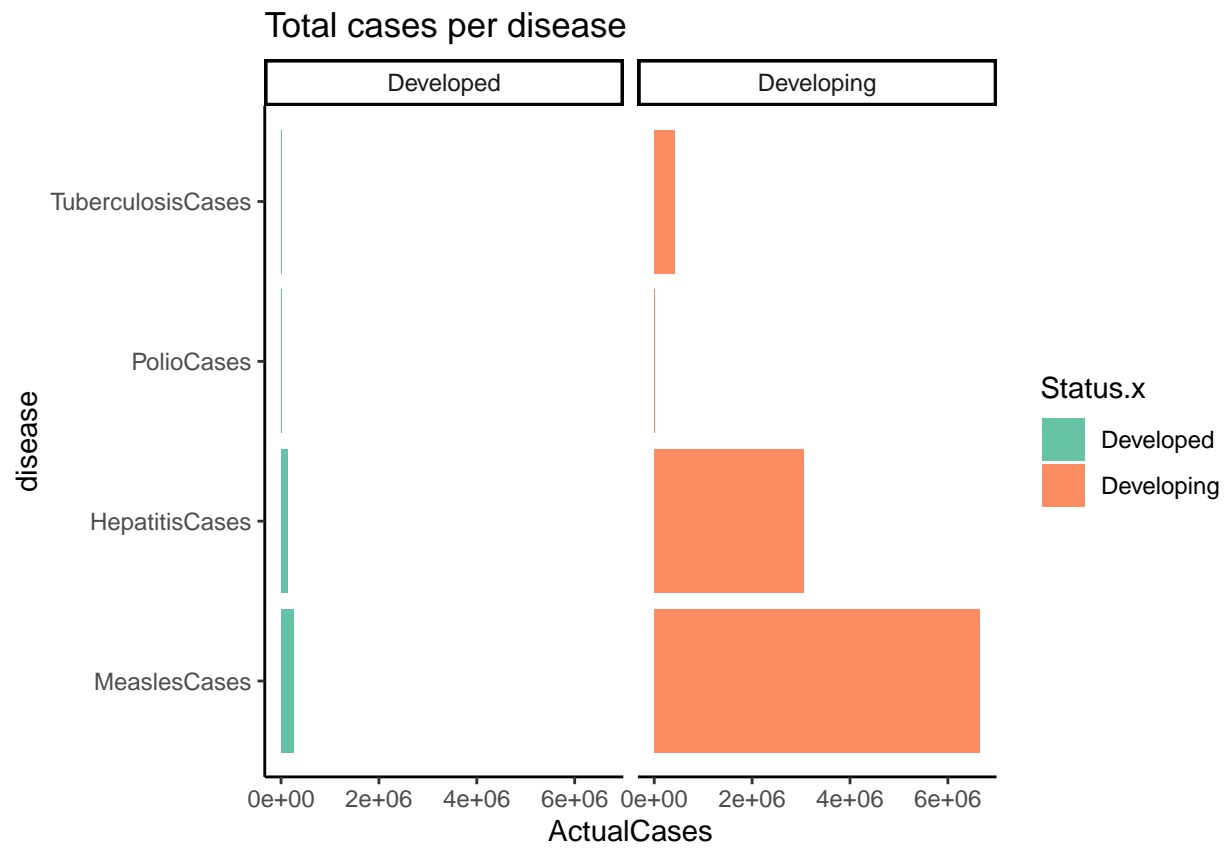


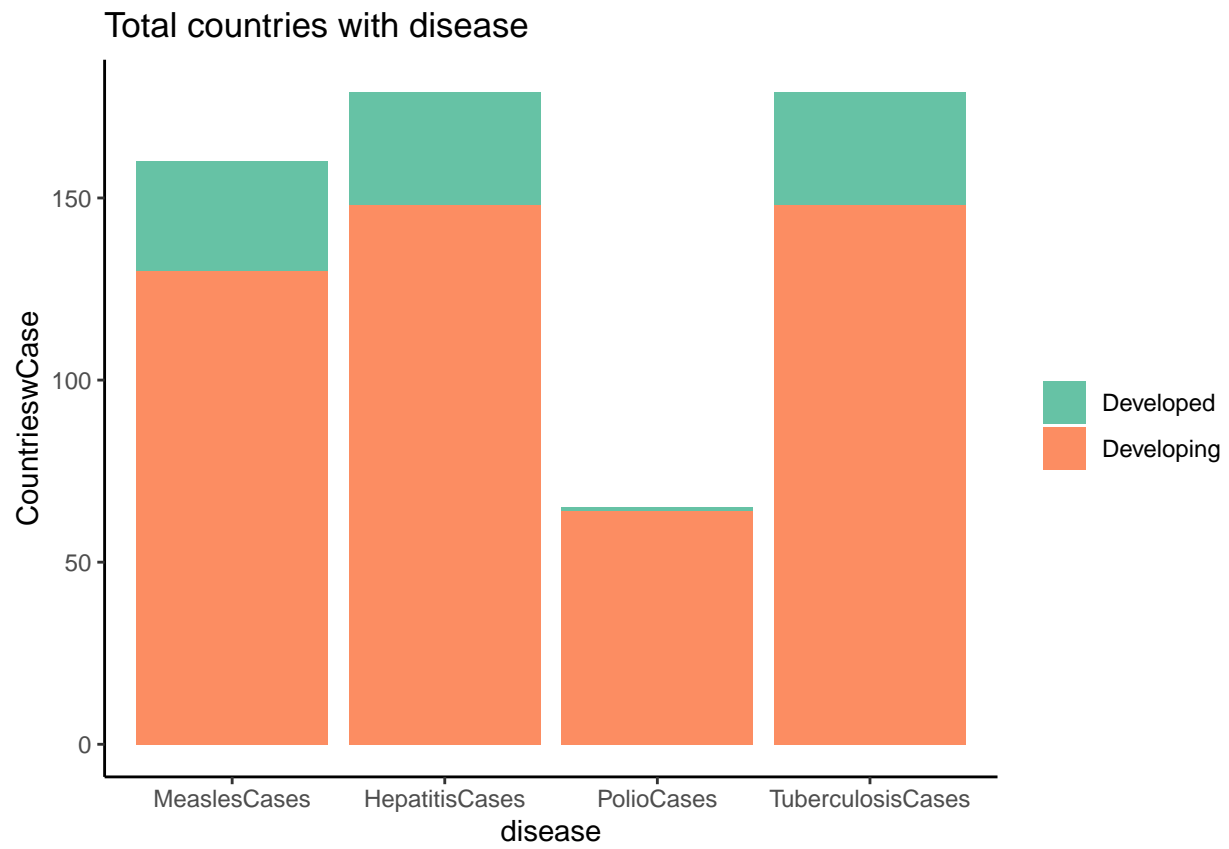


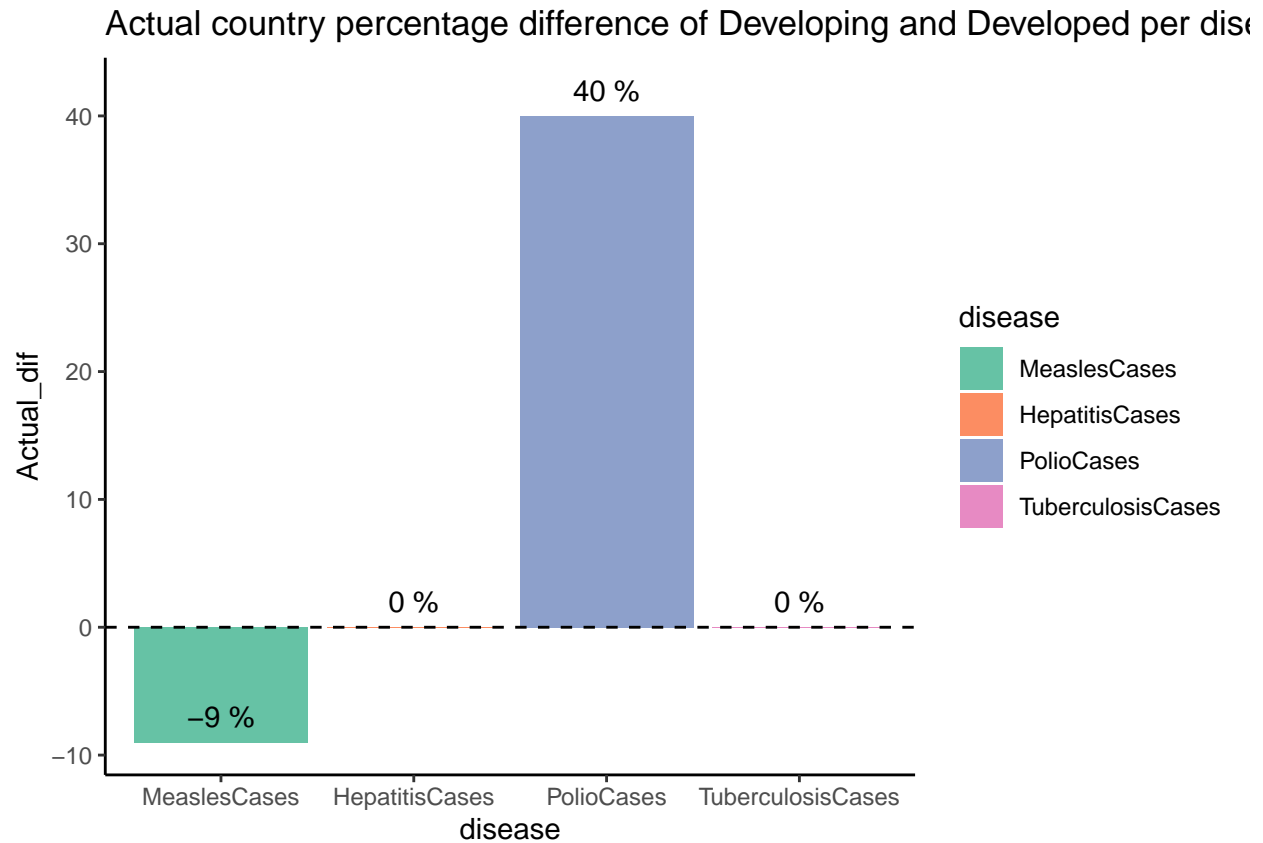
Developed vs Developing

- The data is composed of 17% developed countries and 83% developing
- When filter the data with country disease that is 0 it changes 2%. Changing the distribution to 15% developed and 85% developing
- All countries in the data had Tuberculosis
- **Out of the Developed countries 97% of the developed countries had Measles cases**
- **Out of the Developing countries 88% of the developing countries had Measles cases**
- **Out of the Developed countries 3% of the developed countries had Polio cases**
- **Out of the Developing countries 43% of the developing countries had Polio cases**
- **Both Developing and Developed Countries had Tuberculosis cases and HepatitisB**
- *Here is the table of that actual difference and percentage which is actually not that much*
- Polio developed vs developed almost no difference









Filter data on Cases vs Status vs Disease and some graphs on it

```
## # A tibble: 8 x 7
## # Groups:   disease [4]
##   disease Status.x TotalCountries CountrieswCase ActualCases NoCases PercentDif
##   <fct>    <chr>          <int>         <int>         <dbl>    <int>      <dbl>
## 1 Measles~ Develop~         31          30         254111         1         97
## 2 Measles~ Develop~        148         130        6660847        18         88
## 3 Hepatit~ Develop~         31          31         134293.         0        100
## 4 Hepatit~ Develop~        148         148        3064074.         0        100
## 5 PolioCa~ Develop~         31           1           2         30           3
## 6 PolioCa~ Develop~        148          64         19813         84          43
## 7 Tubercu~ Develop~         31          31          9992.         0        100
## 8 Tubercu~ Develop~        148         148        409470.         0        100
```

