

SUBSETTING BAD DATA, CREATE NEW COLUMNS

SUBSET by Quality and Year

Create new column with full date

```
temp_clean <- temp_raw %>%  
  filter(quality=="Y") %>%  
  filter(year >= 1900) %>%  
  filter(year < 2020) %>%  
  mutate(date = ymd(paste(year,month,day,sep="-")))
```

GROUPING AND SUMMARIZING

Tell R to calculate Average Temperature for EACH year

Calculate average temperature , and anomaly

```
temp_year <- precip_clean %>%  
  group_by(year) %>%  
  summarize(ave_temp = mean(temp, na.rm=T),  
            temp_diff = ave_temp - ave_temp90_2019)
```

