

Analyze GPS

Michael Rahija

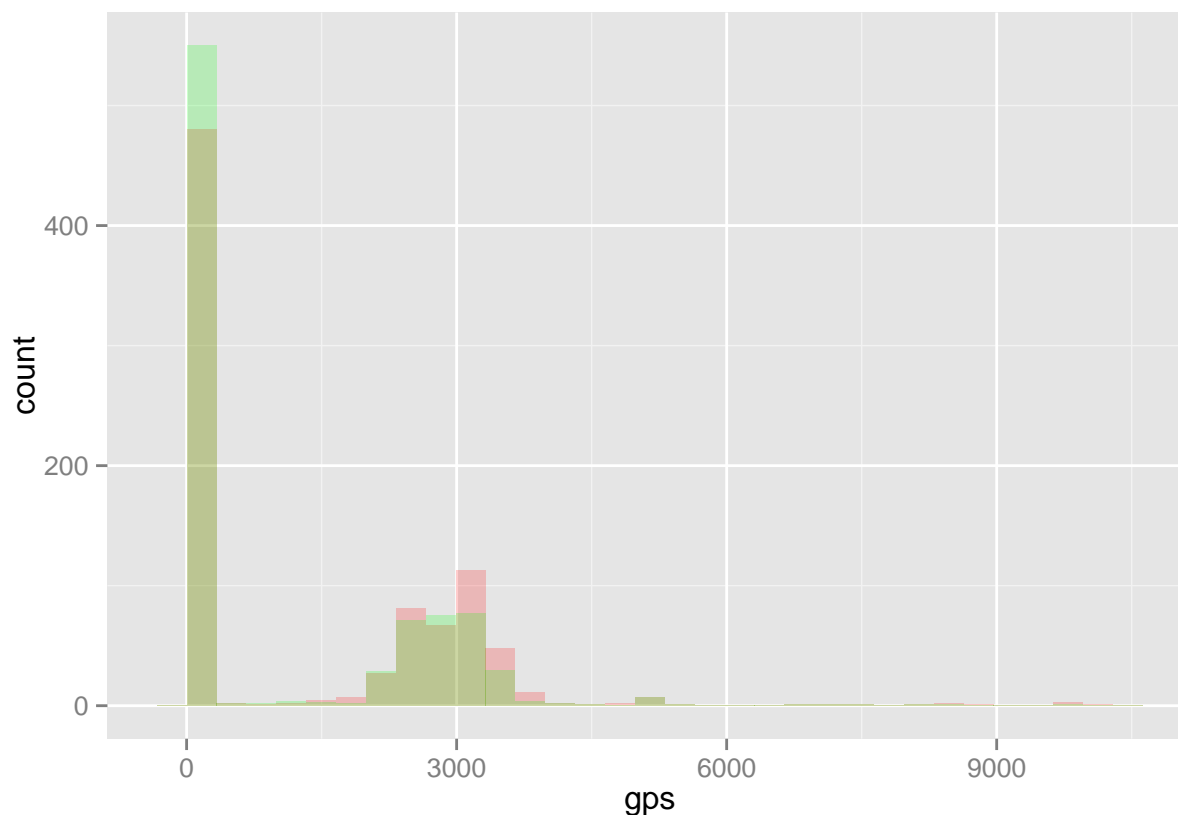
December 10 , 2015

```
source("R/mergeListing.R")
data <- mergeListing(dd = "~/Dropbox/CROP/Indonesia/")

gps1 <- data.frame(gps = data$gps1_Accuracy,
                   measure = rep("measure1", n = nrow(data$gps1_Accuracy)))
gps2 <- data.frame(gps = data$gps2_Accuracy,
                   measure = rep("measure2", n = nrow(data$gps2_Accuracy)))

gps <- rbind(gps1, gps2)

ggplot(gps, aes(x=gps)) +
  geom_histogram(data=subset(gps, measure == 'measure1'), fill = "red", alpha = 0.2) +
  geom_histogram(data=subset(gps, measure == 'measure2'), fill = "green", alpha = 0.2)
```



```
source("R/labelFactors.R")
data <- labelFactors(df = data,
                    vars = c("sub_dist_name2", "census_block"))

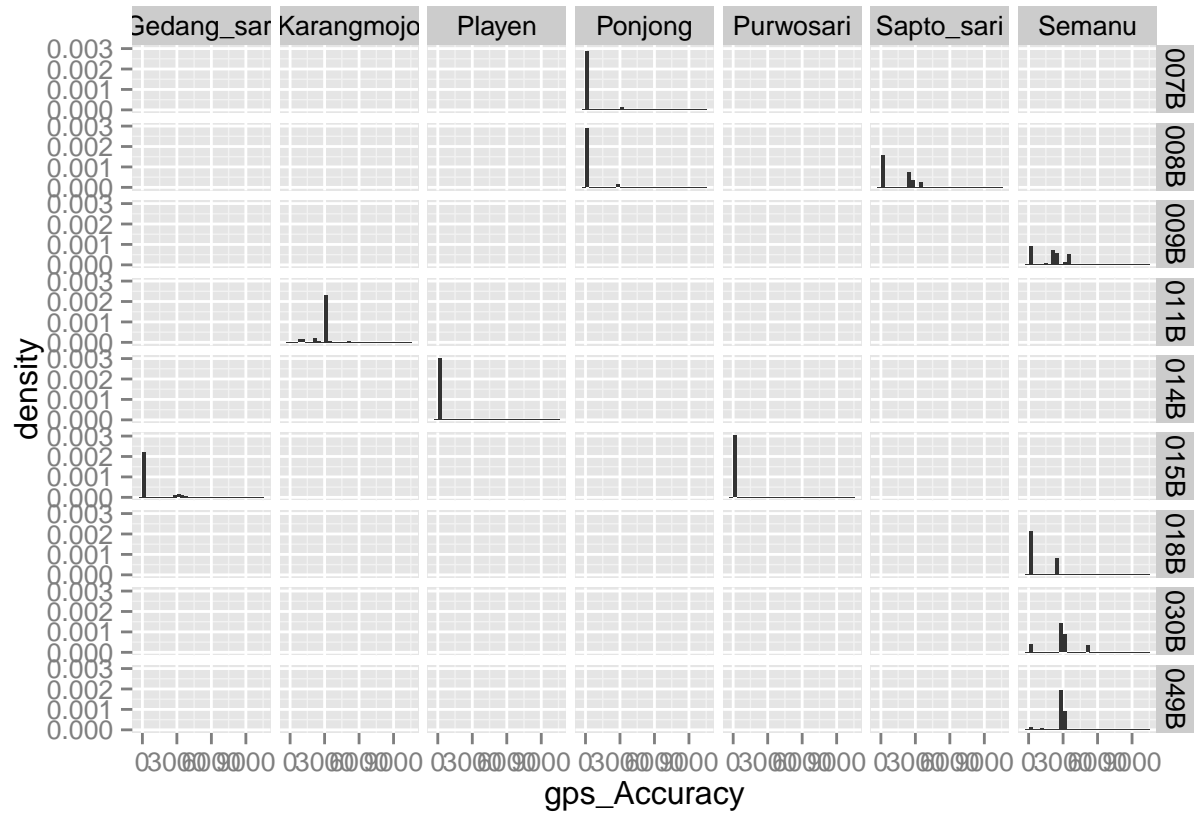
#take most accurate gps reading from each survey
```

```

if(data$gps1_Accuracy > data$gps2_Accuracy){
  data$gps_Accuracy <- data$gps2_Accuracy
} else {
  data$gps_Accuracy <- data$gps1_Accuracy
}

ggplot(data, aes(gps_Accuracy)) +
  geom_histogram(aes(y = ..density..)) +
  facet_grid(censusBlockLabels~subDistrictNames)

```



```

ggplot(temp, aes(gps_Accuracy)) +
  geom_histogram(aes(y = ..density..)) +
  facet_wrap(Enumerator~subDistrictNames)

```

