

Assingment 2 Main

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2023-03-06

```
palette <- colorblindr::palette_OkabeIto

IRL_Covid19_2021_09_01<- IRL_counties_Covid19%>%
  filter(TimeStamp == ymd("2021-12-21"))%>%
  mutate(ConfirmedC_per_100k = round(100000 * ConfirmedC/Population,1))%>%
  mutate(DailyCCase_per_100k = round(100000 * DailyCCase/Population, 1))

mean_daily_cases <- IRL_Covid19_2021_09_01 %>%
  select(ConfirmedC_per_100k) %>%
  st_drop_geometry() %>%
  unlist() %>%
  mean()

IRL_Covid19_2021_09_01 %>%
  mutate(color = ifelse(CountyName == "Galway", "1",
                        ifelse(ConfirmedC_per_100k < mean_daily_cases, "2", "3"))) %>%
  ggplot(aes(x = ConfirmedC_per_100k, y = reorder(CountyName,ConfirmedC_per_100k)))+
  geom_point(size = 2, aes(color = color))+
  geom_vline(aes(xintercept = mean_daily_cases))+
  geom_linerange(aes(xmin = mean_daily_cases, xmax = ConfirmedC_per_100k, color = color),
                linetype = "dashed")+
  scale_color_manual(values = c(palette[2], palette[1], palette[5]),
                    labels = c("Galway", "Counties performing better than average",
                                "Counties performing worse than average"))+
  scale_x_continuous(limits = c(10000, 19000),
                    breaks = seq(10000, 19000, by = 1000),
                    name = "Confirmed Cases (Per 100,000 people) -->")+
  scale_y_discrete(name = "Counties -->")+
  annotate(x=mean_daily_cases+900, y=1, label="<- mean line", color="black", geom = "text",
          lineheight = .6)+
  theme_minimal()+
  theme(legend.position = "top",
        legend.title = element_blank())
```

