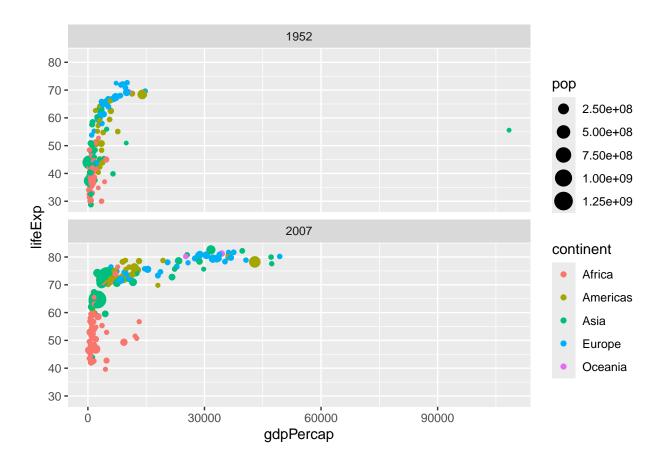
test-pdf

2024-07-26

Load in packages and data

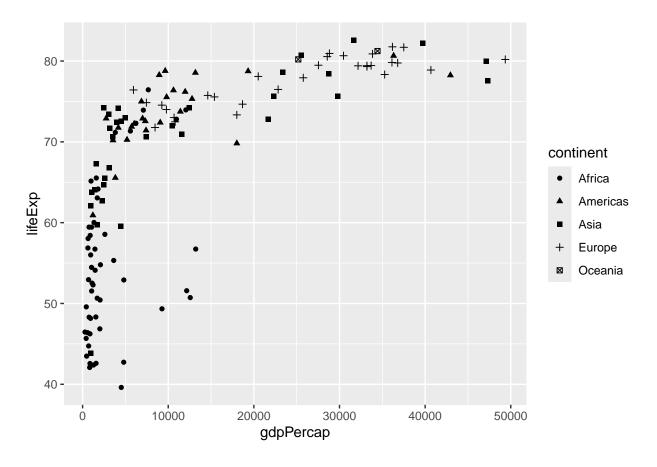
```
library(paletteer)
library(ggplot2)
library(gapminder)
library(tidyverse)
```

Example 1



Example 2

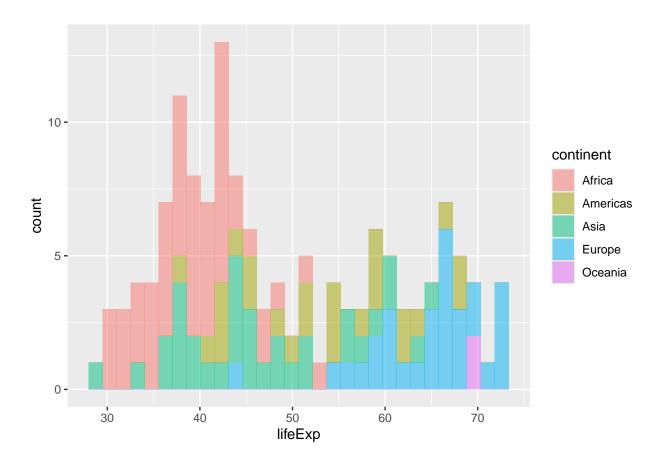
```
gapminder %>%
  filter(year == 2007) %>%
ggplot()+
  aes(x=gdpPercap,
      y=lifeExp,
      shape=continent)+
  geom_point()
```



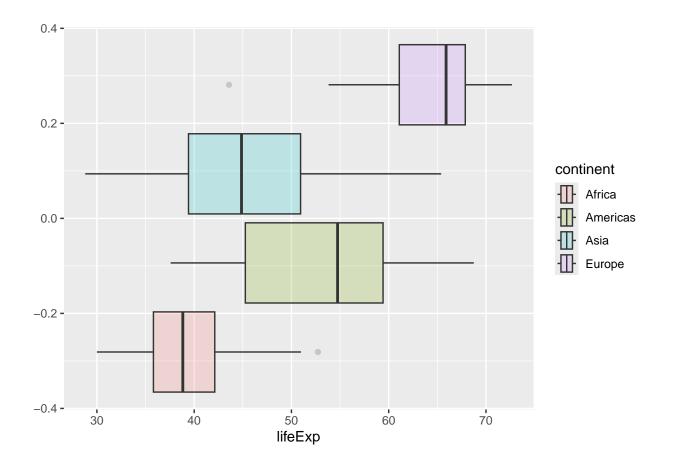
$Geom_histogram$

```
gapminder %>%
  filter(year == 1952) %>%
  ggplot()+
  aes(x=lifeExp,
     fill=continent)+
  geom_histogram(alpha=0.5)
```

`stat_bin()` using `bins = 30`. Pick better value with `binwidth`.

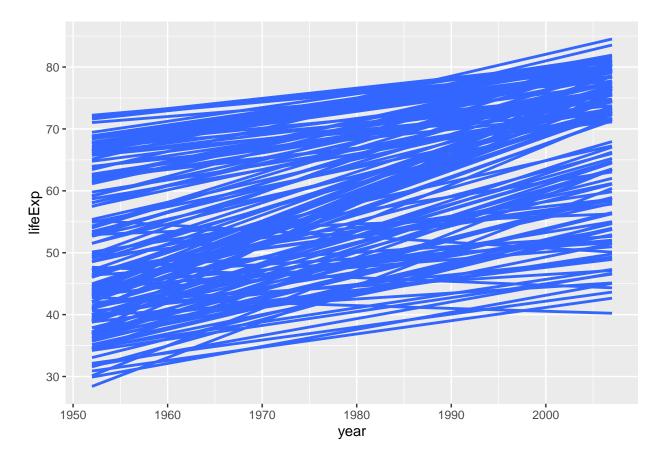


${\bf geom_boxplot}$



geom_contour

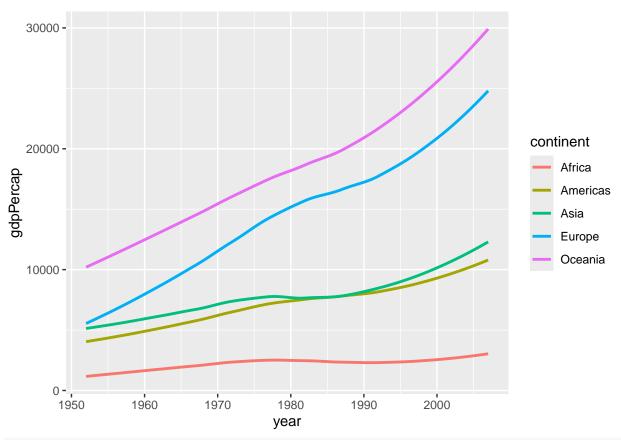
`geom_smooth()` using formula = 'y ~ x'

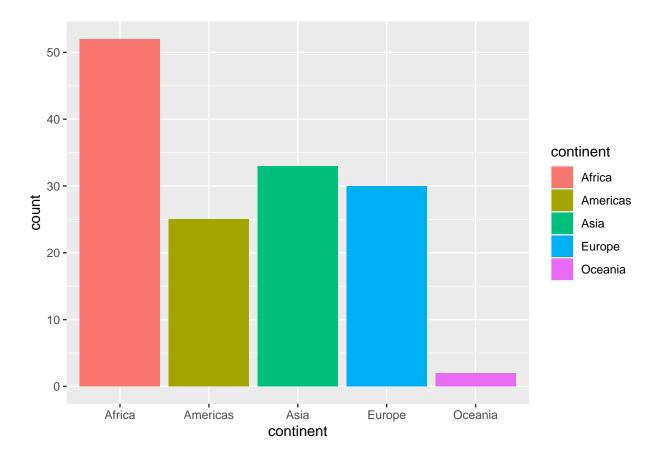


Change across time

compere trends in per capita GDP over time by continent

$geom_smooth()$ using method = 'loess' and formula = 'y ~ x'

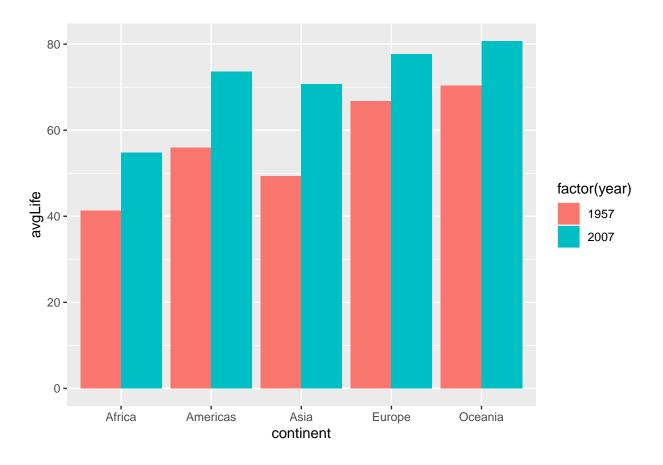




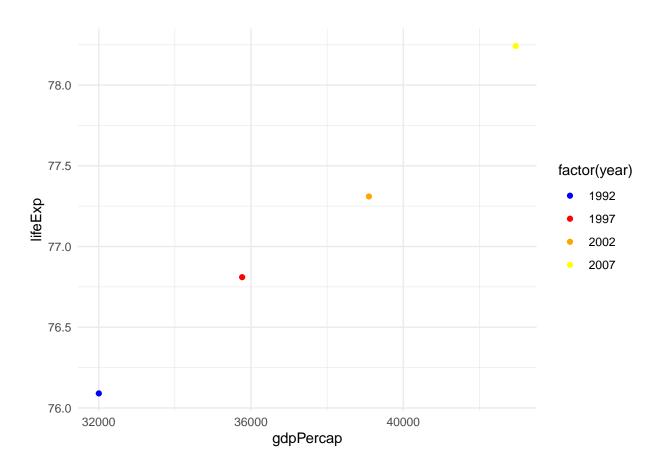
Column Charts for Multiple Groups

Life exp for each continent for years 1952-2007

`summarise()` has grouped output by 'continent'. You can override using the
`.groups` argument.



Customizing Colors



Palatteer

```
{\it\# scale\_colour\_paletteer\_d("national park colors::Acadia")}
# scale_color_paletteer_d("nationalparkcolors::Acadia")
# scale_fill_paletteer_d("nationalparkcolors::Acadia")
# paletteer_d("nationalparkcolors::Acadia")
gapminder %>%
filter(year==2007) %>%
group_by(continent) %>%
summarise(count=n()) %>%
ggplot()+
aes(x=continent,
     y=count,
     fill=continent)+
 geom_col()+
 scale_fill_paletteer_d("nationalparkcolors::Acadia") +
labs(x = NULL, y = NULL) +
theme_minimal()
```

