

# ggplot – facets part 2, histograms

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PLS 397 Analyzing and Visualizing Data  
Fall 2023

# Check-in and logistics

Today's quick check-in:

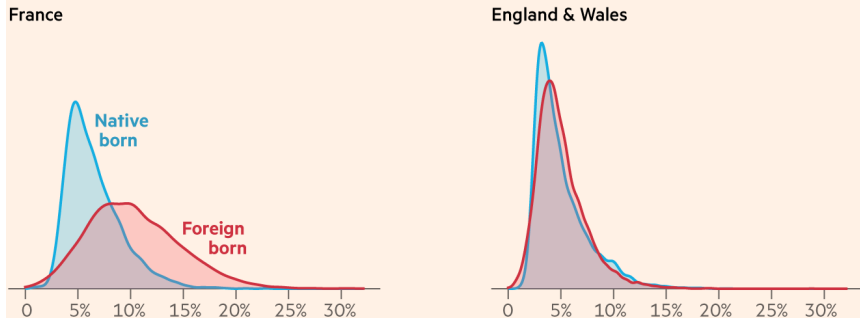
**<https://forms.gle/5oSTK3kdj2ZDyEoC7>**

This should take about 5 minutes.

# Density plots and histograms

Unemployment in France is much higher among immigrants than the native born, with more than one in five foreign-born out of work in some areas

Distribution of unemployment rates across neighbourhoods, by country of birth



Sources: INSEE (Immigration in 2020); ONS (2021 census)

FT graphic: John Burn-Murdoch / @jburnmurdoch

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Source: FT

# Histograms and density plots

- ▶ When do we need histograms or density plots? What do they show?

# Histograms and density plots

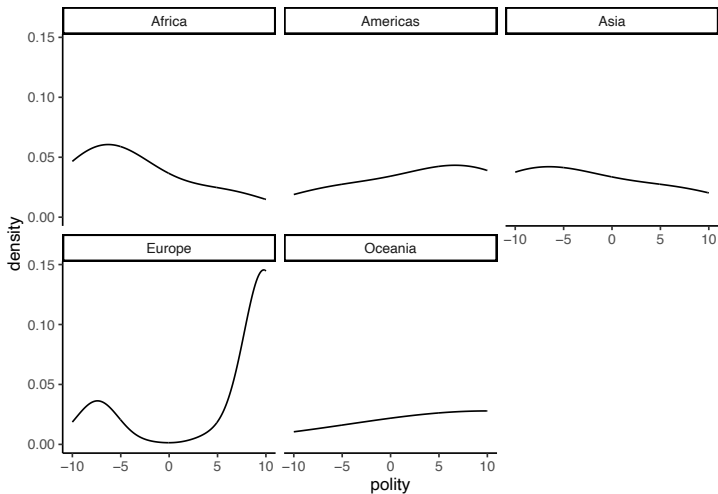
- ▶ When do we need histograms or density plots? What do they show?
- ▶ Which aes values do we need to set?

# Histograms and density plots

- ▶ When do we need histograms or density plots? What do they show?
- ▶ Which aes values do we need to set?
- ▶ How can they be misleading?

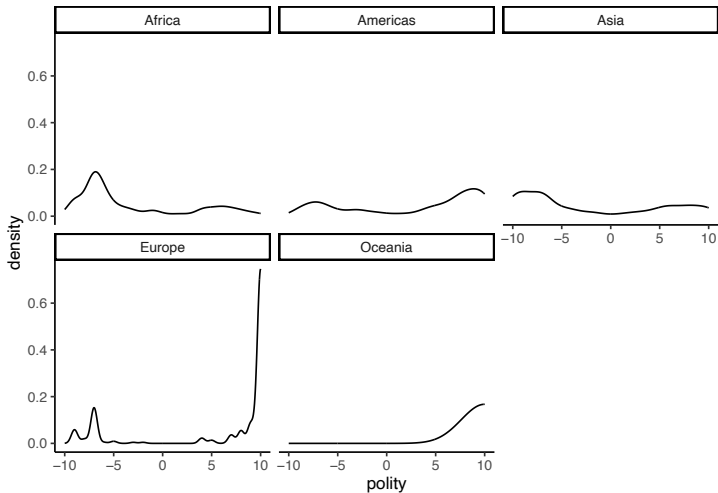
# Density plot

```
+ geom_density()
```



# Density plot

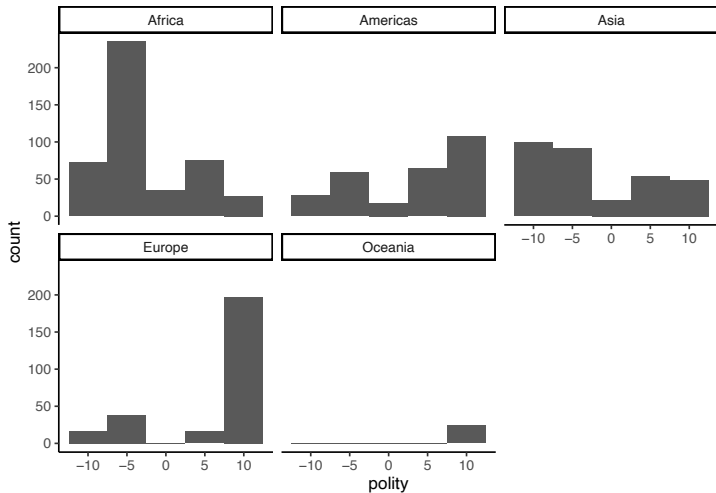
```
+ geom_density(adjust=1/2)
```





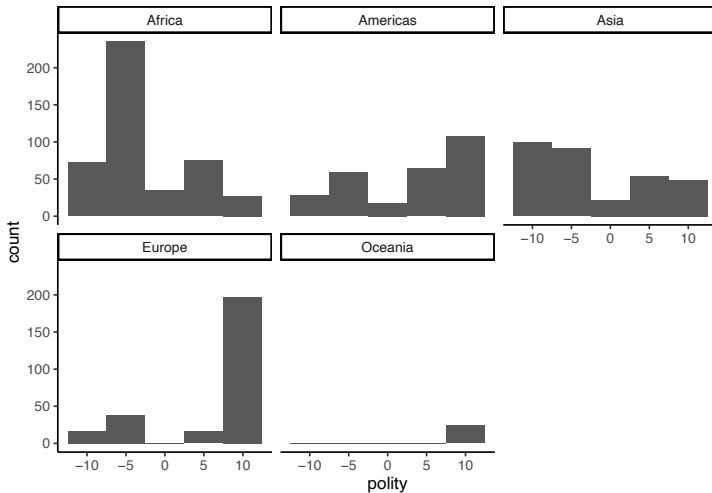
# Histogram

```
+ geom_histogram(bins=5)
```



# Histogram

```
+ geom_histogram(bins=5)
```



# Histogram

```
+ geom_histogram(bins=20)
```

