Gun deaths

Suggested answers

APPLICATION EXERCISE ANSWERS

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PUBLISHED
December 3, 2024

MODIFIED
October 28, 2024

- Slide presentation with **revealjs**

```
---
title: "Gun deaths"
subtitle: "Suggested answers"
author: "Benjamin Soltoff"
date: today
format:
  html:
    toc: true
    theme:
      light: flatly
      dark: darkly
    fig-width: 8
    fig-height: 6
execute:
  echo: fenced
  cache: true
---
```

````
```{r}
#| label: youth

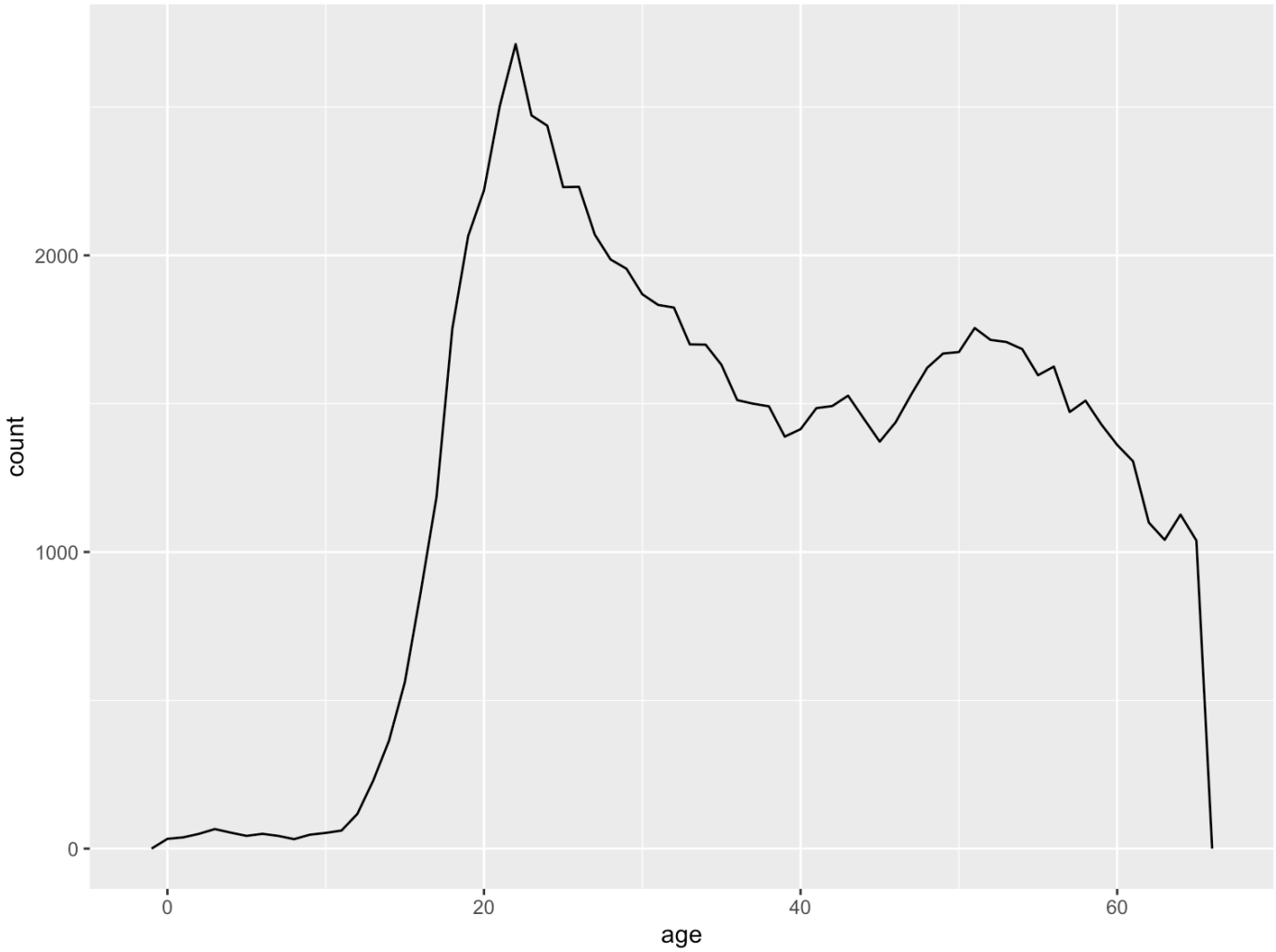
youth <- gun_deaths |>
  filter(age <= 65)
```
````

Gun deaths by age

We have data about 100798 individuals killed by guns. Only 15687 are older than 65. The distribution of the remainder is shown below:

````
```{r}
#| label: youth-dist
````
````

```
ggplot(data = youth, mapping = aes(x = age)) +
  geom_freqpoly(binwidth = 1)
```

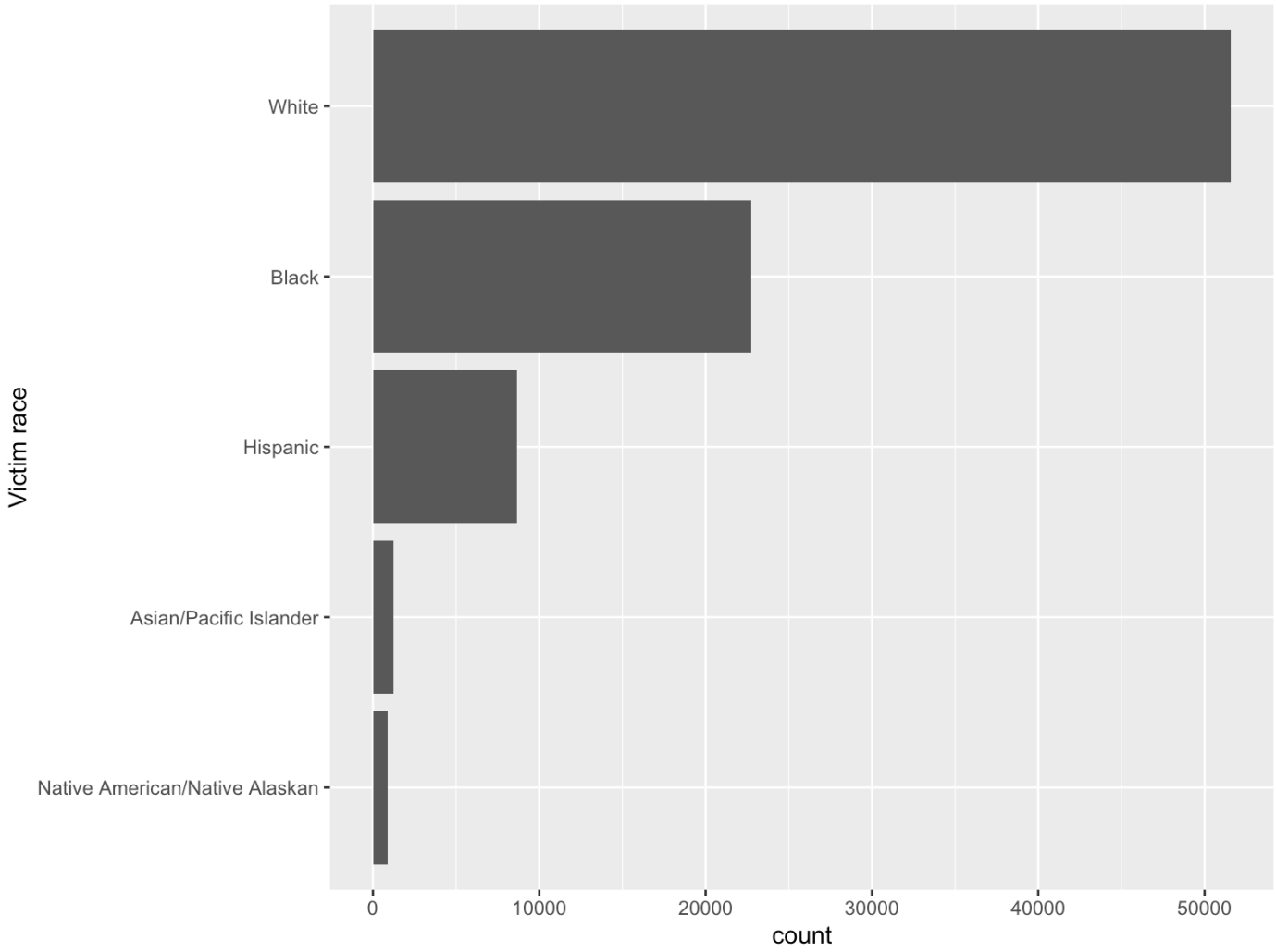


There appear to be two modal values in this distribution. The peak number of gun death victims by age is around 22 years old. There is a smaller, but noticable, peak around age 50.

Gun deaths by race

```{r}
#| label: race-dist

youth |>
  mutate(race = fct_infreq(race) |> fct_rev()) |>
  ggplot(mapping = aes(y = race)) +
  geom_bar() +
  labs(y = "Victim race")
```



Session information