

Programming in R: Solutions

Question 6 - Exam-part 1 (28/01/2022)

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December 31, 2021

Question 6

Prepare a presentation of 5-10 slides using R markdown about the connection between the usage of seatbelt, the outcome of the accident and the severity of the injury.

- A title slide
- At least one slide with text
- At least one slide with a figure
- At least one slide with text and a figure

Introduction

Libraries and nassCDS data

```
library(tidyverse)
library(ggmosaic)
library(DAAG)
data(nassCDS)
names(nassCDS)
```

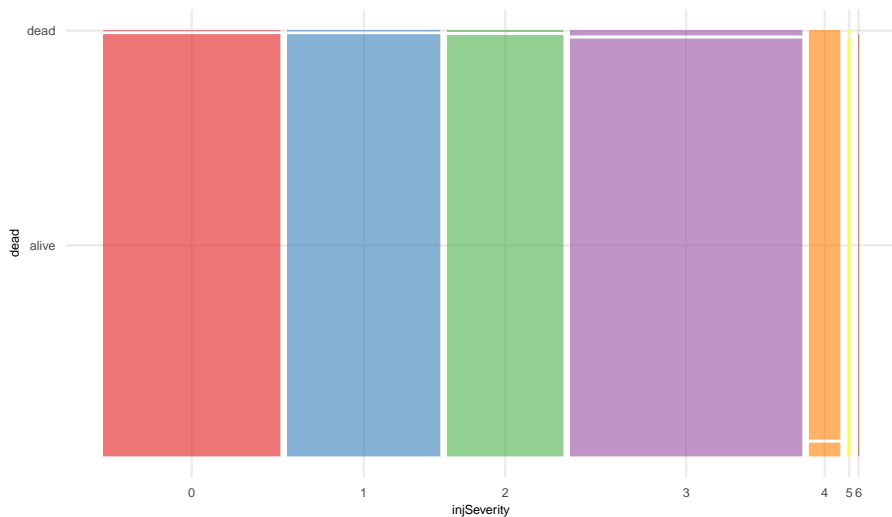
```
##   [1] "dvcat"      "weight"     "dead"       "airbag"
##   [6] "frontal"    "sex"        "age0Focc"   "yearacc"
##  [11] "abcat"     "occRole"    "deploy"     "injSeverity"
```

Slide with text

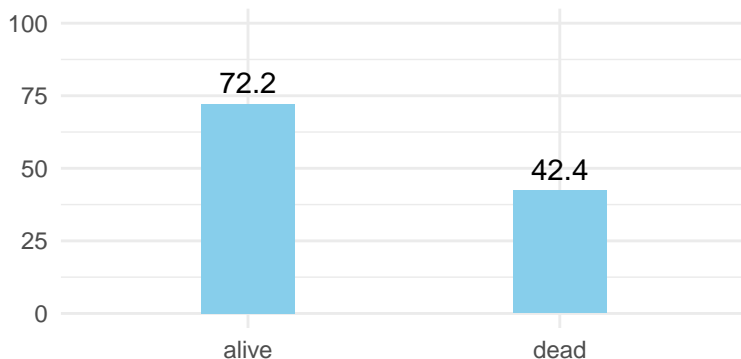
The `nassCDS` data which is a US data from police-reported car crashes (1997-2002) in which there is a harmful event (people or property). Data are restricted to front-seat occupants, include only a subset of the variables recorded. More information about the dataset can be found using the following link: <https://www.rdocumentation.org/packages/DAAG/versions/1.22/topics/nassCDS>. The data is a part of the DAAG R package

Slide with figure

Distribution of accident outcome over the seatbelt usage.



Slide with test and figure



Among people who survived from accident, 72.2% used seatbelt, whereas only 42.4% used seatbelt among those who died from accident.

Last slide



Thank you!