集計データの活用

労働経済学 2

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```
library(tidyverse)

Data = read_csv("Slide/ExampleAggregate.csv")

Temp = Data |>
  mutate(
    Shift = (sum(value) - sum(InitialValue))/sum(InitialValue),
    .by = c(D,X)
  ) |> # X ごとの成長率を計算
  mutate(
    share = InitialValue/sum(InitialValue),
    .by = c(D,G)
  ) |> # Share を計算
  mutate(
    Explained = sum(share*Shift),
    .by = c(D,G)
    ) |> # Share 貢献の計算
  mutate(
    growth = (sum(value) - sum(InitialValue))/sum(InitialValue),
    .by = c(D,G)
  ) |> # 全体の成長率を計算
  filter(
    G == "就業者"
  )

Temp |>
```

```
ggplot(
  aes(
    x = D,
    y = Explained
  )
) +
geom_line(
  aes(color = "Share からの予測")
) +
geom_line(
  aes(
    y = growth,
    color = "就業者数の成長率"
  )
) +
theme_bw() +
geom_hline(
  yintercept = 0
)
```