

British_Library_Funding

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2025-07-16

```
# Using R  
# Option 1: tidyuesdayR R package  
## install.packages("tidyuesdayR")
```

```
tuesdata <- tidyuesdayR::tt_load('2025-07-15')
```

```
## ---- Compiling #TidyTuesday Information for 2025-07-15 ----  
## --- There is 1 file available ---  
##  
##  
## -- Downloading files -----  
##  
## 1 of 1: "bl_funding.csv"
```

```
## OR  
tuesdata <- tidyuesdayR::tt_load(2025, week = 28)
```

```
## ---- Compiling #TidyTuesday Information for 2025-07-15 ----  
## --- There is 1 file available ---  
##  
##  
## -- Downloading files -----  
##  
## 1 of 1: "bl_funding.csv"
```

```
bl_funding <- tuesdata$bl_funding
```

```
# Option 2: Read directly from GitHub
```

```
bl_funding <- readr::read_csv('https://raw.githubusercontent.com/rfordatascience/tidyuesday/main/data/')
```

```
## Rows: 26 Columns: 17  
## -- Column specification -----  
## Delimiter: ","  
## dbl (17): year, nominal_gbp_millions, gia_gbp_millions, voluntary_gbp_millio...  
##  
## i Use 'spec()' to retrieve the full column specification for this data.  
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

What is the most variable source of data? What is the most consistent?

```
var_gia <- var(bl_funding$gia_gbp_millions, na.rm = TRUE)
print(var_gia)
```

```
## [1] 134.7574
```

```
var_voluntary <- var(bl_funding$voluntary_gbp_millions, na.rm = TRUE)
print(var_voluntary)
```

```
## [1] 34.24777
```

```
var_investment <- var(bl_funding$investment_gbp_millions , na.rm = TRUE)
print(var_investment)
```

```
## [1] 0.4565069
```

```
var_services <- var(bl_funding$services_gbp_millions , na.rm = TRUE)
print(var_services)
```

```
## [1] 40.65055
```

```
var_others <- var(bl_funding$other_gbp_millions , na.rm = TRUE)
print(var_others)
```

```
## [1] 7.177725
```

```
# Core government funding GIA seems to vary the most based on variance statistics performed on 2000 inf
# Investment seems to be the most consistent
```

Does that analysis change when adjusted for inflation?

```
var_gia <- var(bl_funding$gia_y2000_gbp_millions, na.rm = TRUE)
print(var_gia)
```

```
## [1] 97.46101
```

```
var_voluntary <- var(bl_funding$voluntary_y2000_gbp_millions, na.rm = TRUE)
print(var_voluntary)
```

```
## [1] 24.42204
```

```
var_investment <- var(bl_funding$investment_y2000_gbp_millions, na.rm = TRUE)
print(var_investment)
```

```
## [1] 0.2757959
```

```
var_services <- var(bl_funding$services_y2000_gbp_millions, na.rm = TRUE)
print(var_services)
```

```
## [1] 62.43933
```

```
var_others <- var(bl_funding$other_y2000_gbp_millions, na.rm = TRUE)
print(var_others)
```

```
## [1] 4.345317
```

```
# Core government funding GIA seems to vary the most based on variance statistics performed on 2000 inf
```

```
# Investment still seems to stay consistent
```