

Shaping the Data



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Overview

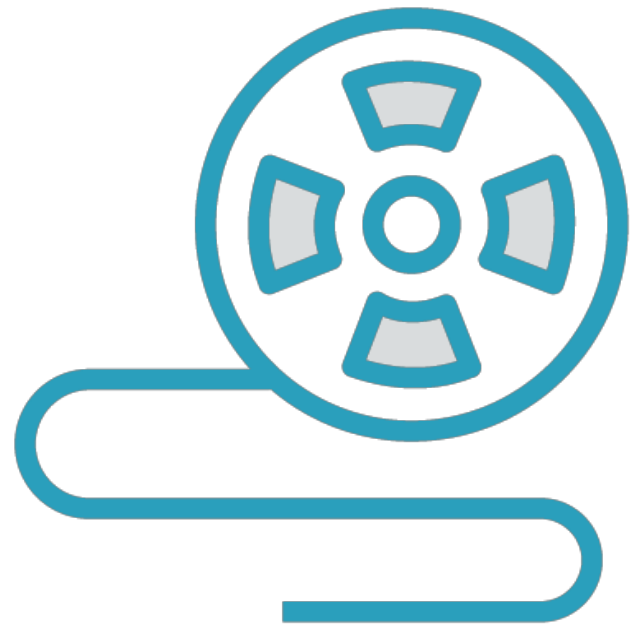
Data overview

Loading the data

Cleaning, shaping, filtering

Project structure

Data Overview



Movies

2000
-
2009

Defined period

Lord
Fishing
Avatar
Ketter
Rings

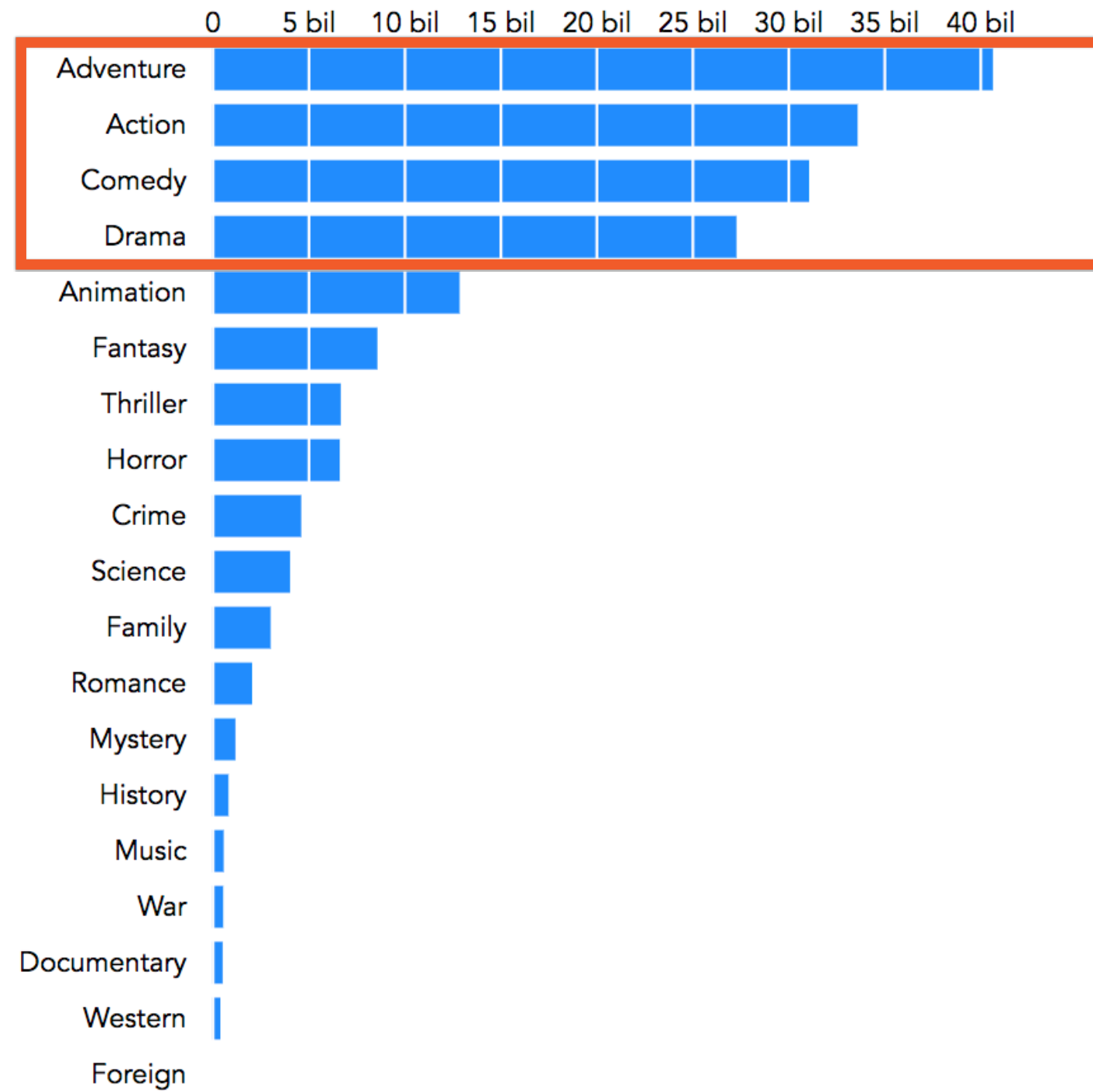
Blockbuster



Financial success

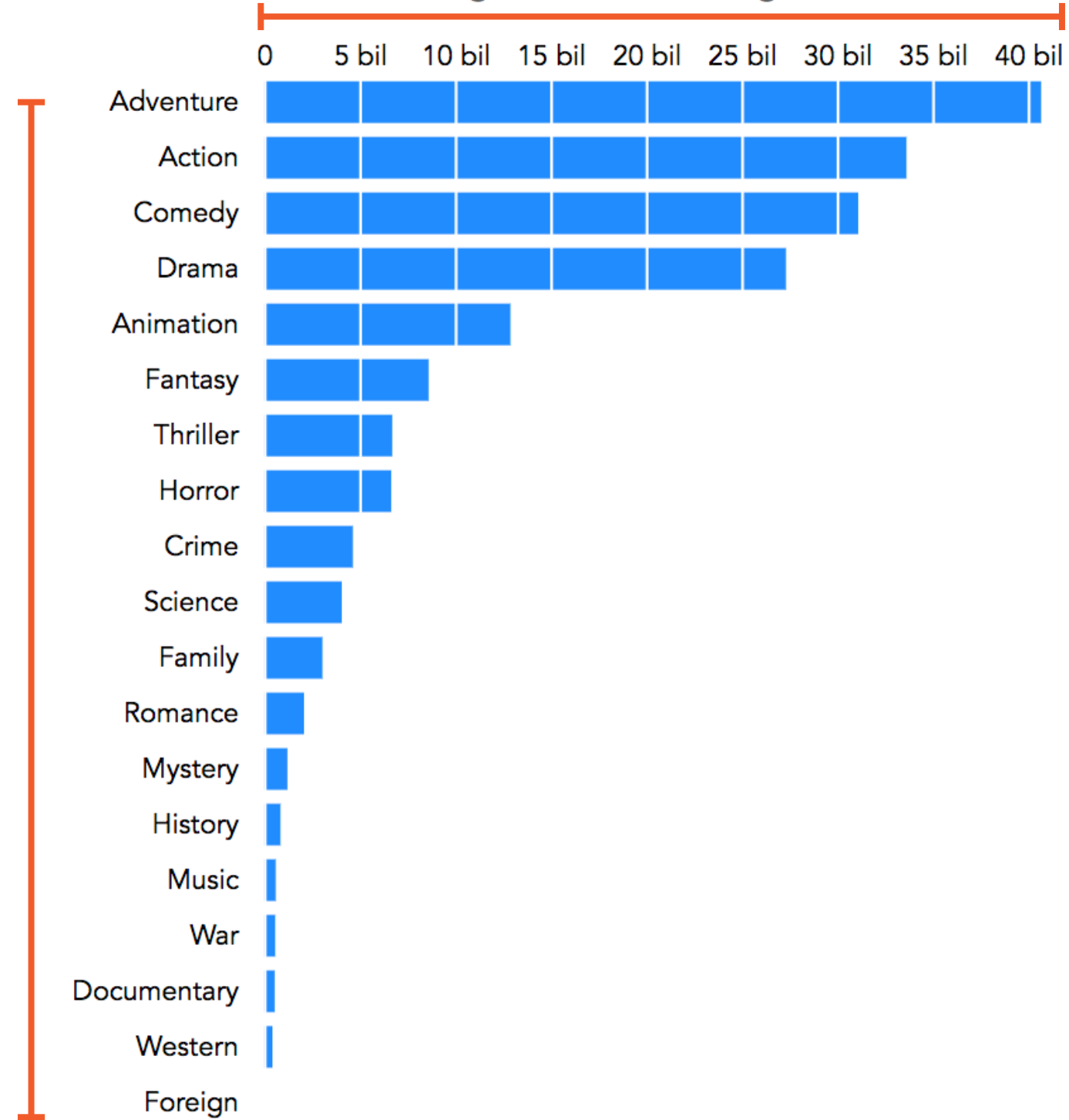
Total revenue by genre in \$US

Films w/ budget and revenue figures, 2000-2009



Total revenue by genre in \$US

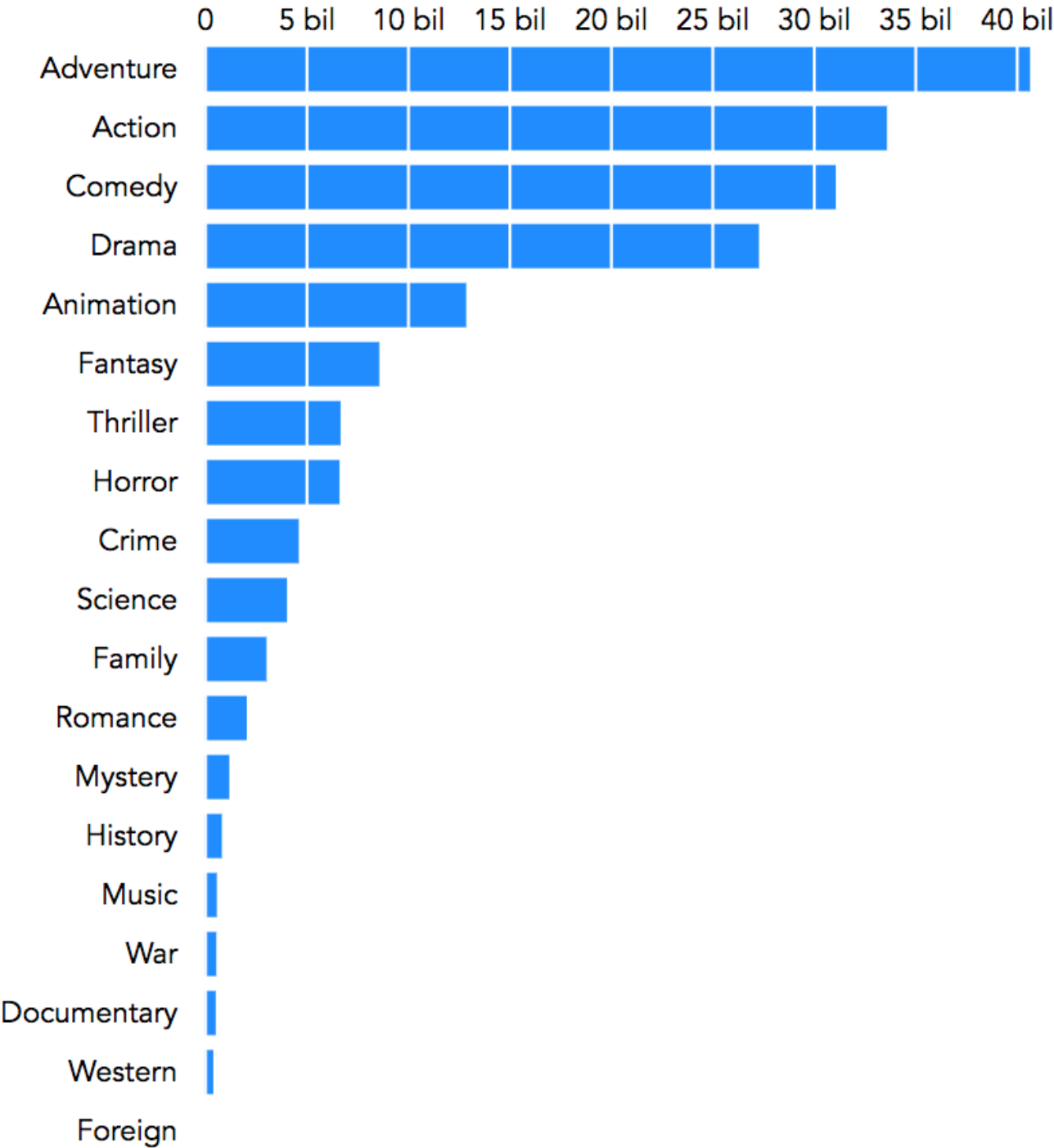
Films w/ budget and revenue figures, 2000-2009



Which film genres were most
successful between
2000 and 2009?

Total revenue by genre in \$US

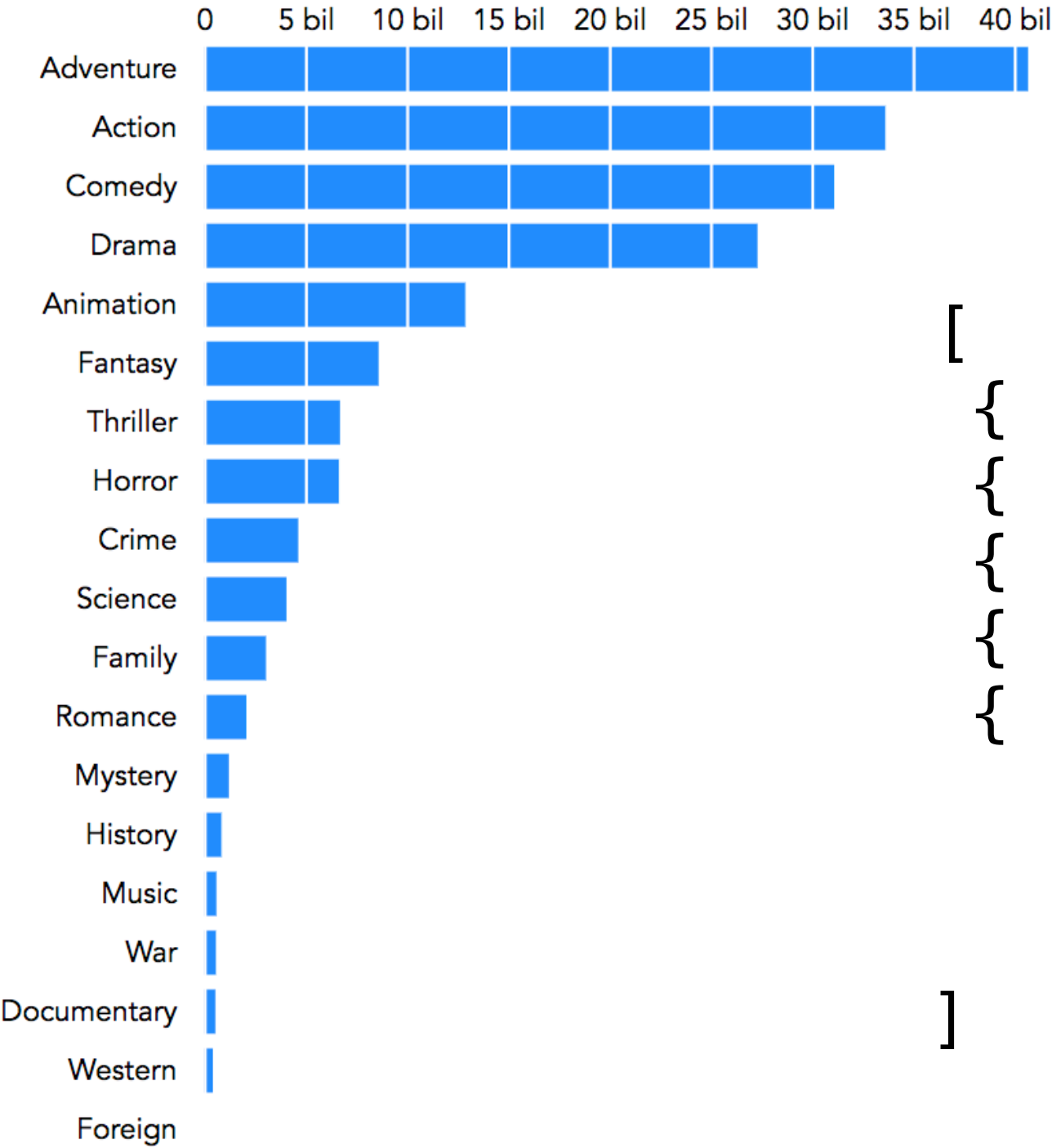
Films w/ budget and revenue figures, 2000-2009



Genre	Revenue
Adventure	40
Action	33
Comedy	31
Drama	27
Animation	13
...	...

Total revenue by genre in \$US

Films w/ budget and revenue figures, 2000-2009



```
[  
  { genre: "Adventure", revenue: 40 },  
  { genre: "Action", revenue: 33 },  
  { genre: "Comedy", revenue: 31 },  
  { genre: "Drama", revenue: 27 },  
  { genre: "Animation", revenue: 13 },  
  ...  
]
```



```
d3.rollup(data, reducer, key)
```

Title	Genre	Year	...
Film 1	Adventure	2009	...
Film 2	Adventure	2002	...
Film 3	Comedy	2004	...
Film 4	Comedy	2003	...
Film 5	Comedy	2008	...
Film 6	Foreign	2000	...

`d3.rollup(data, reducer, key)`

Group data by:

Title	Genre	Year	...
Film 1	Adventure	2009	...
Film 2	Adventure	2002	...
Film 3	Comedy	2004	...
Film 4	Comedy	2003	...
Film 5	Comedy	2008	...
Film 6	Foreign	2000	...

d3.rollup(data, reducer, key)

Access to
grouped
subsets

Title	Genre	Year	...
Film 1	Adventure	2009	...
Film 2	Adventure	2002	...
Film 3	Comedy	2004	...
Film 4	Comedy	2003	...
Film 5	Comedy	2008	...
Film 6	Foreign	2000	...

Summary

Loading data with D3

- Various formats
- Multiple sources

Preparing data with D3 and JS

- Type conversion
- New variables
- Filtering
- Transforming and aggregating