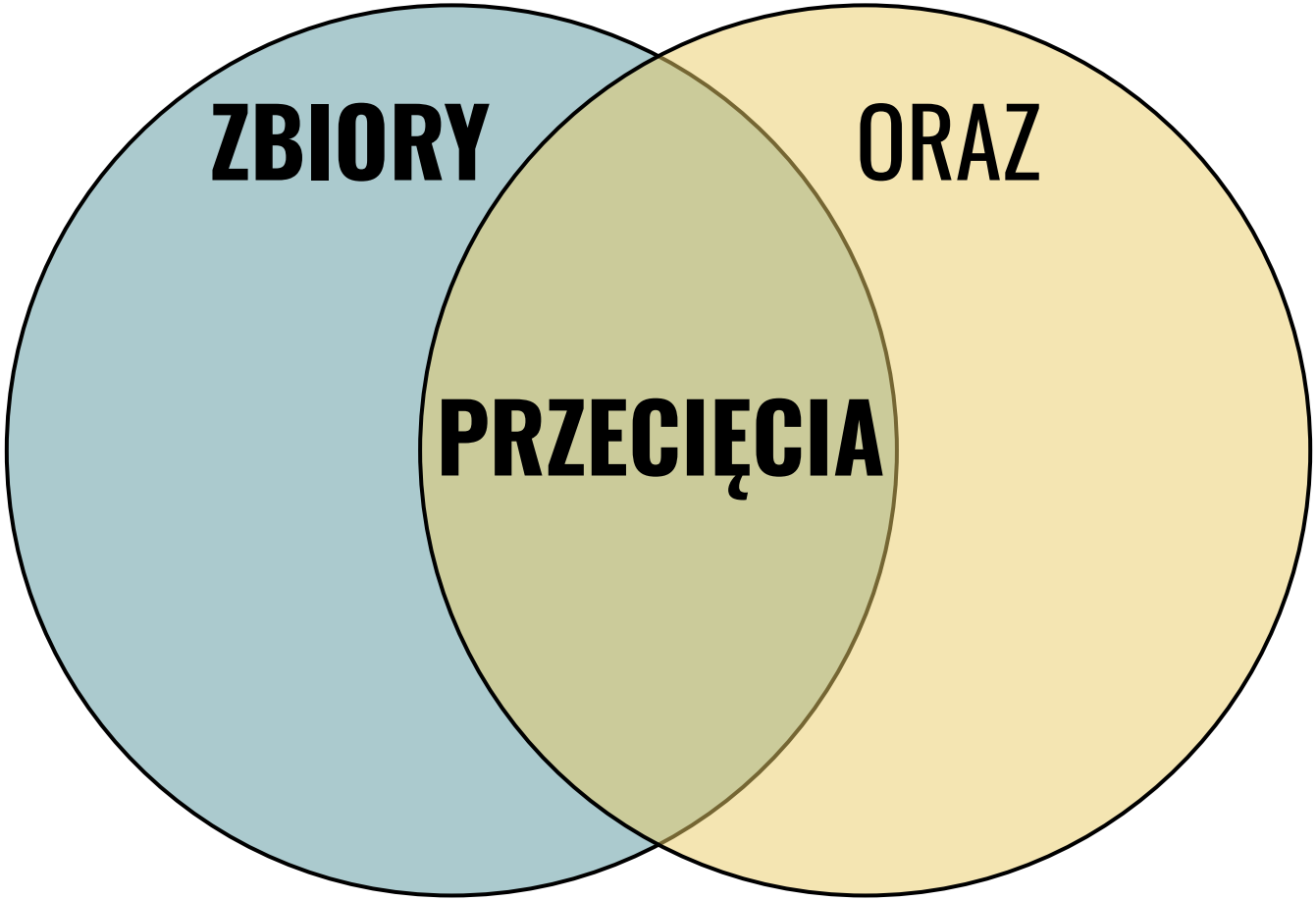


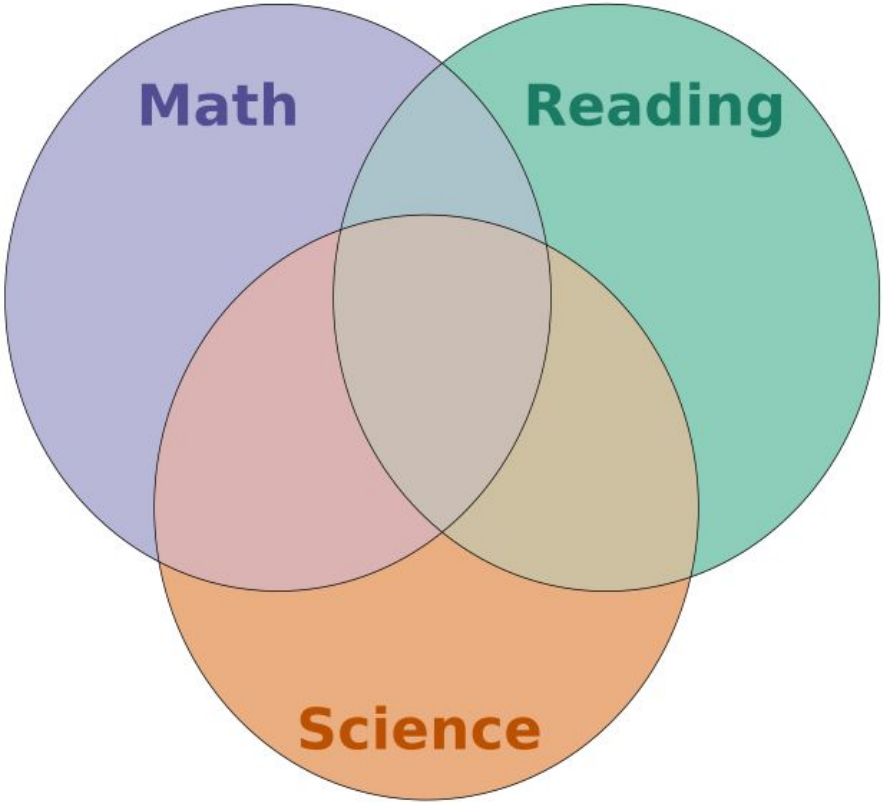



Konrad Komisarczyk, Marceli Korbin

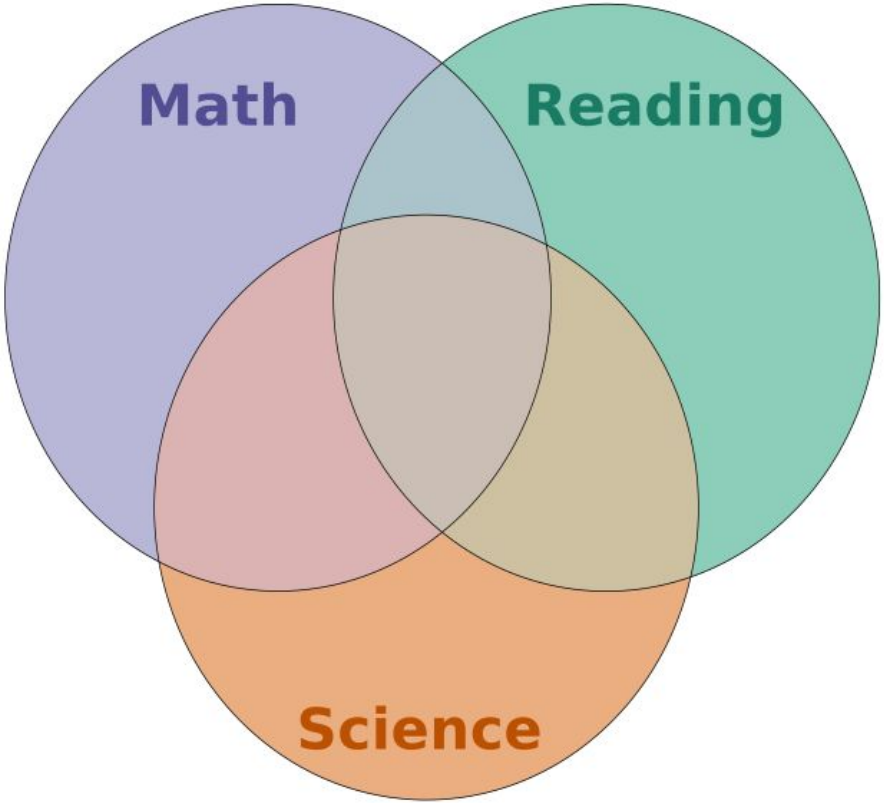
# Agenda

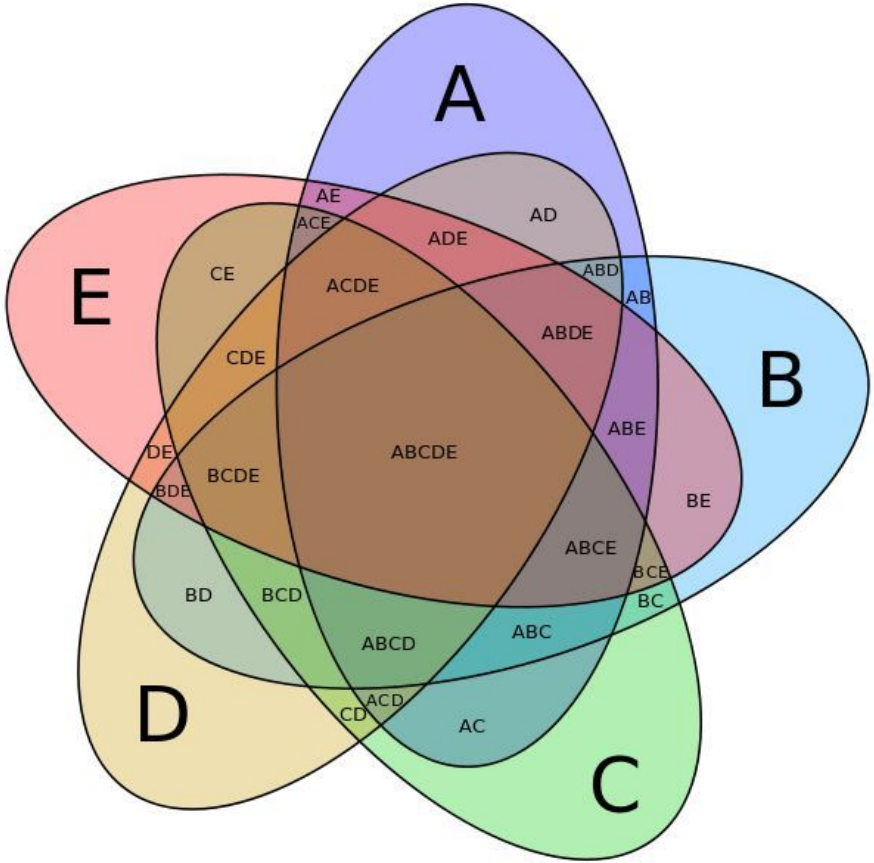
- Diagramy Eulera i Venna
- Wykres słupkowy dla wszystkich(?) możliwych przecięć
- Agregacyjna mapa ciepła

# Diagramy Venna / Eulera

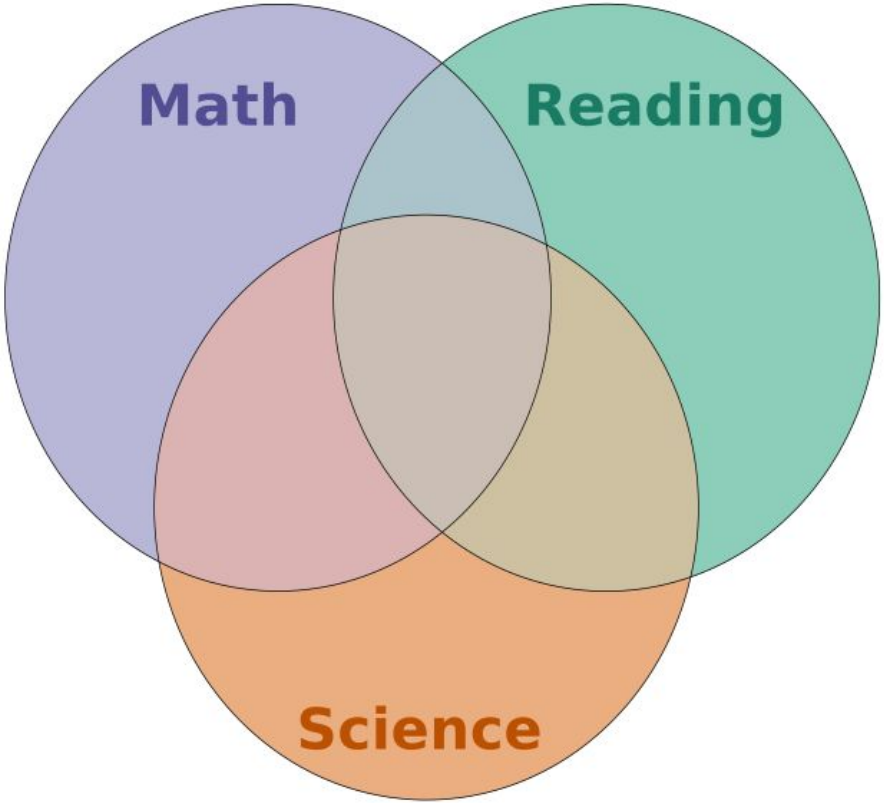


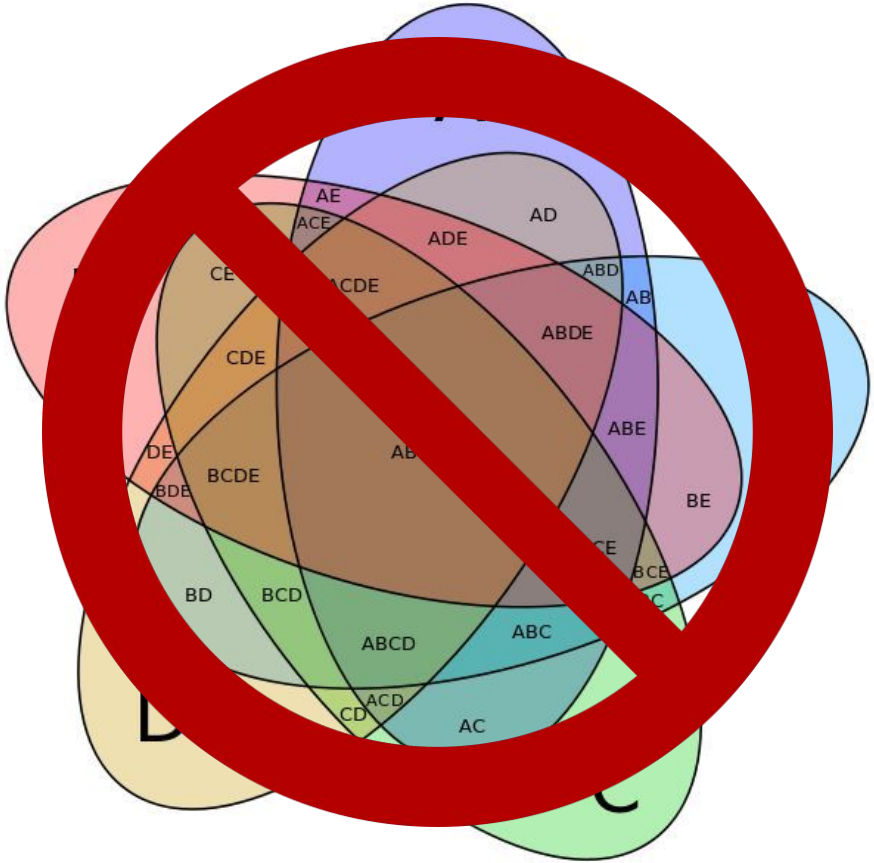
# Diagramy Venna / Eulera



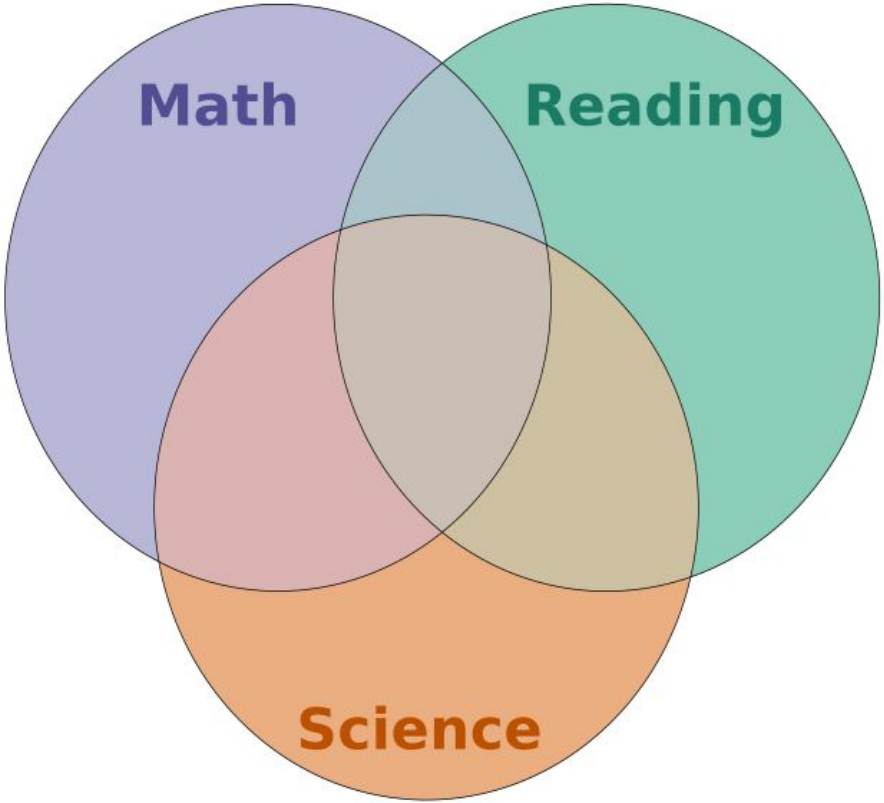



# Diagramy Venna / Eulera



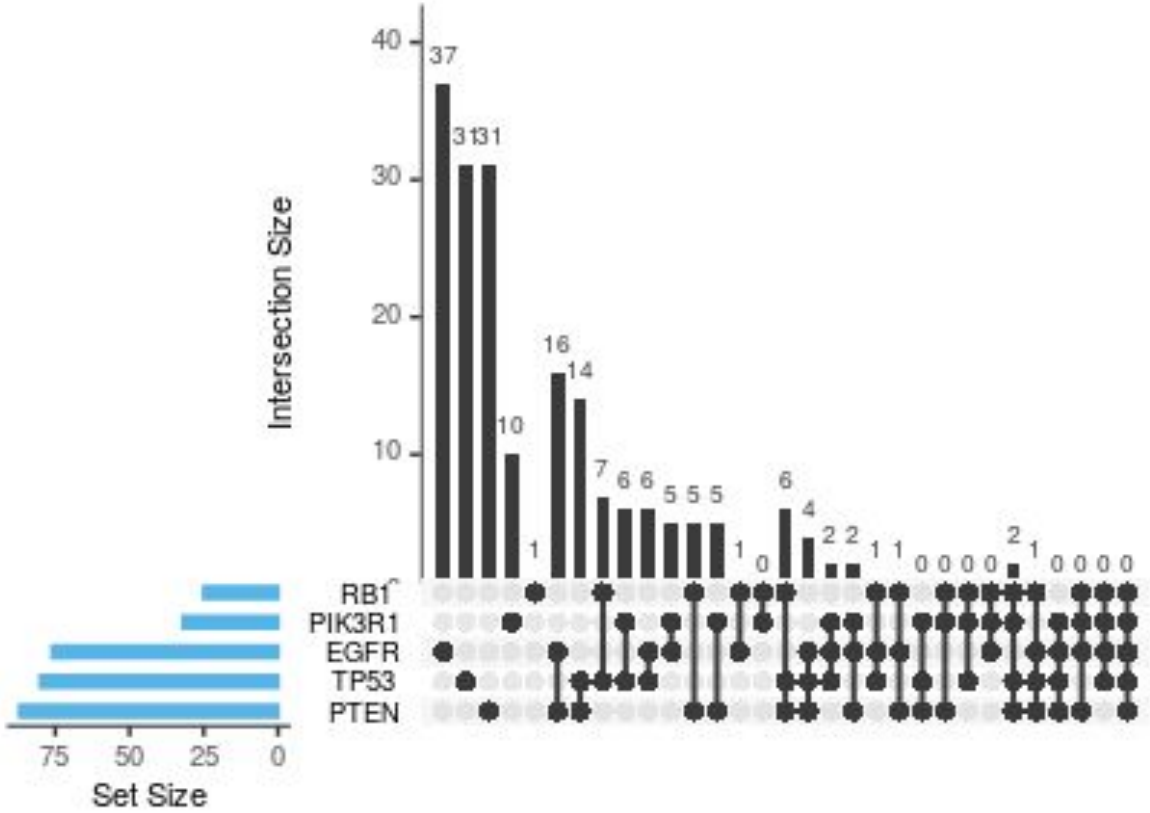
# Diagramy Venna / Eulera



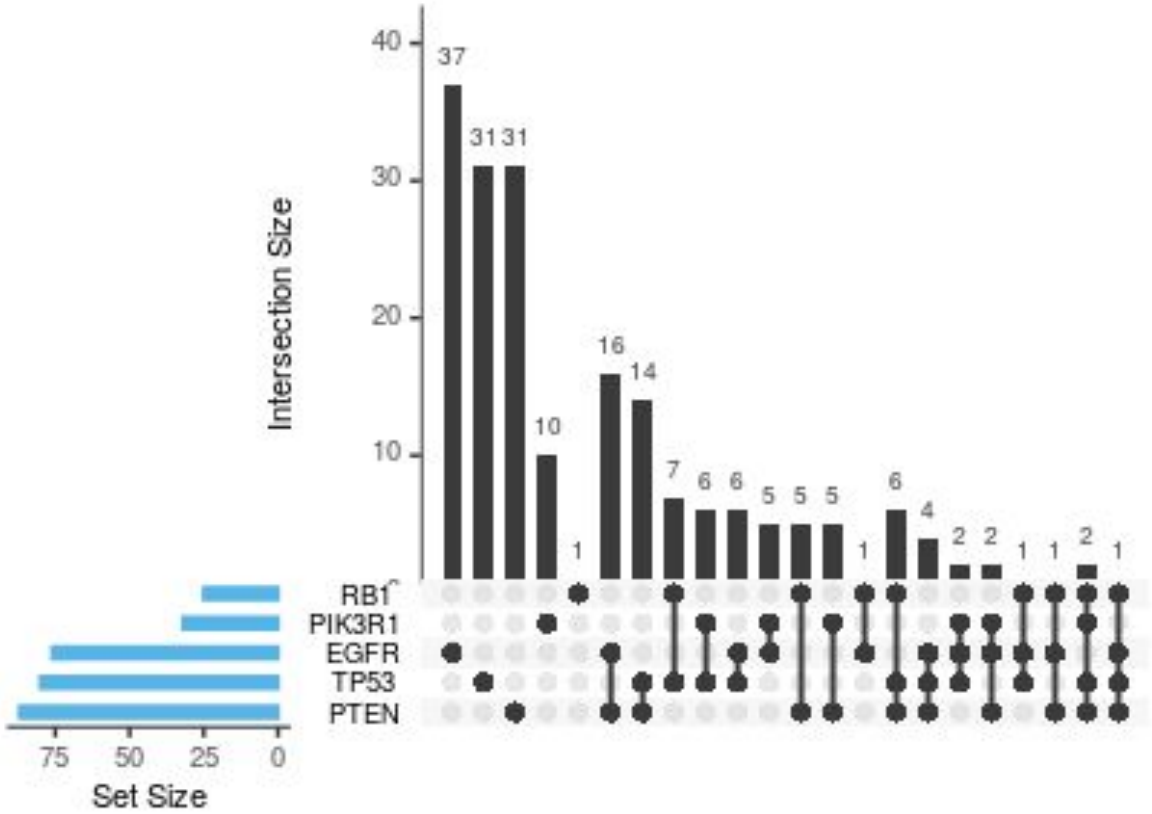

library(**eulerr**)

# alternatywnie:
# library(**venneuler**)
# library(**vennDiagram**)

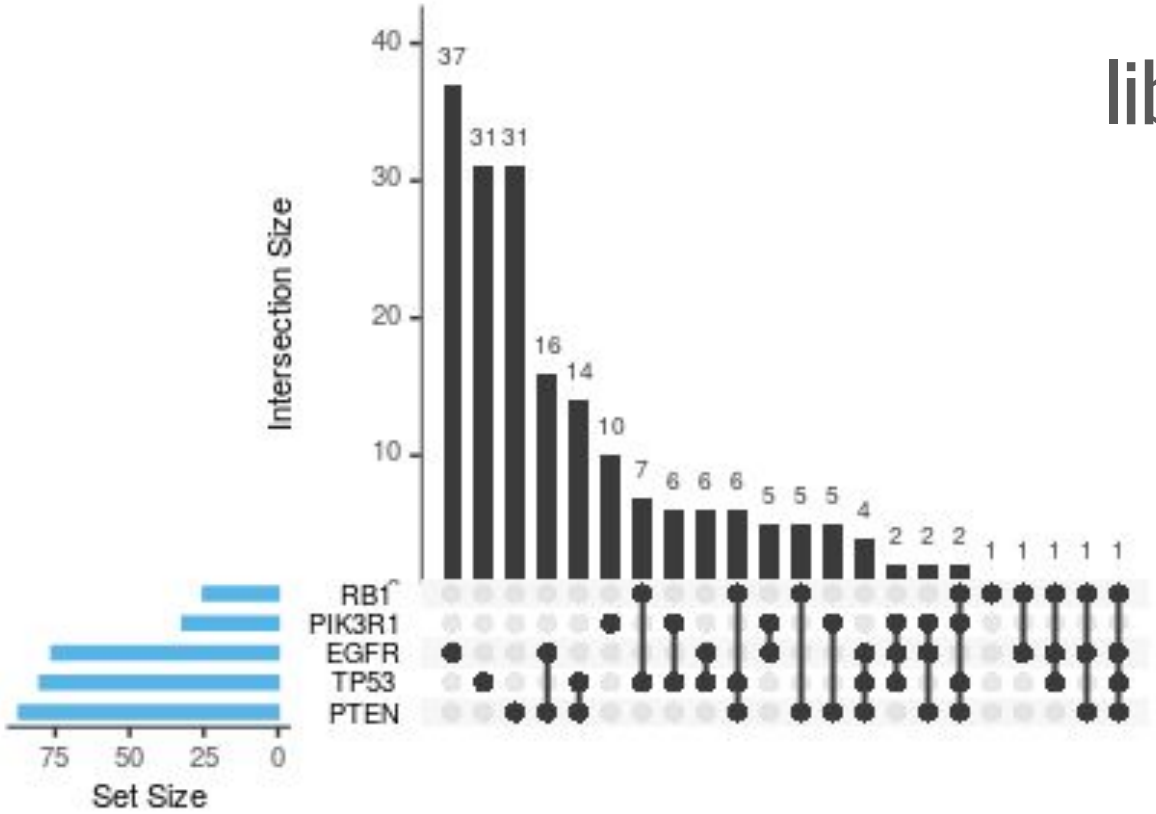
# Wszystkie przecięcia



# Niepuste przecięcia

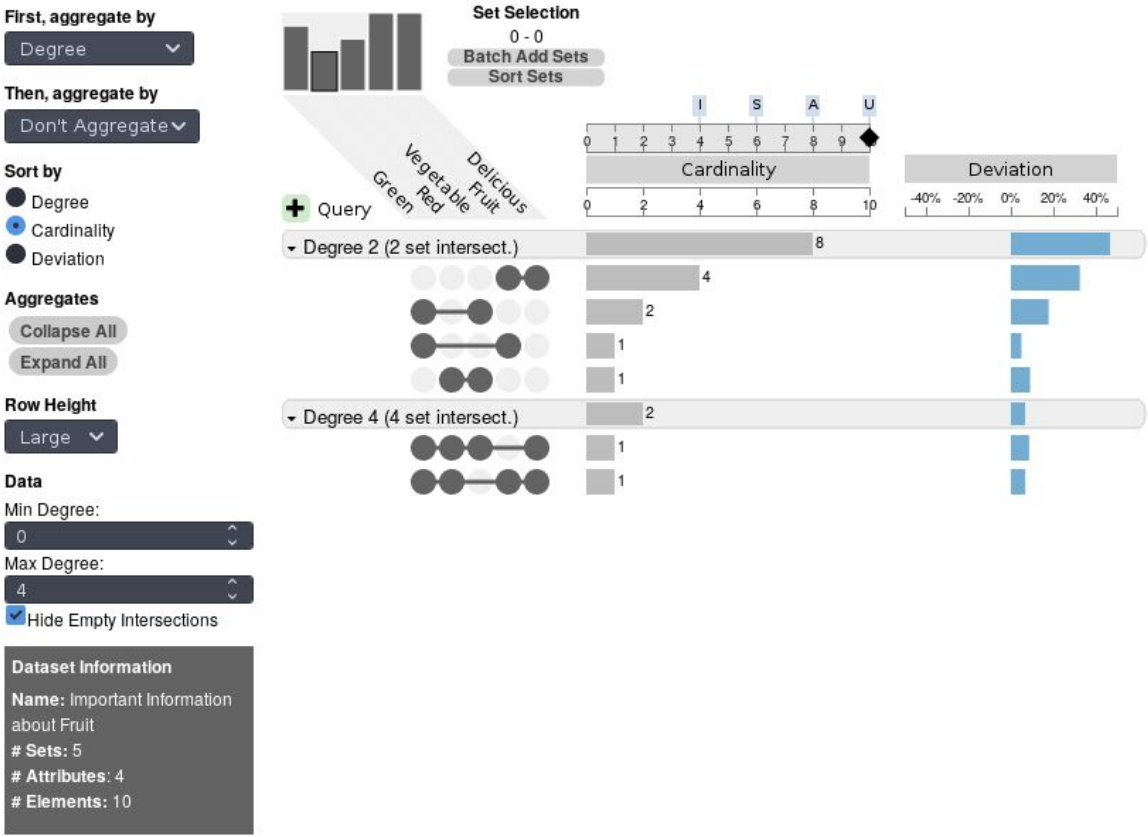


# Niepuste przecięcia

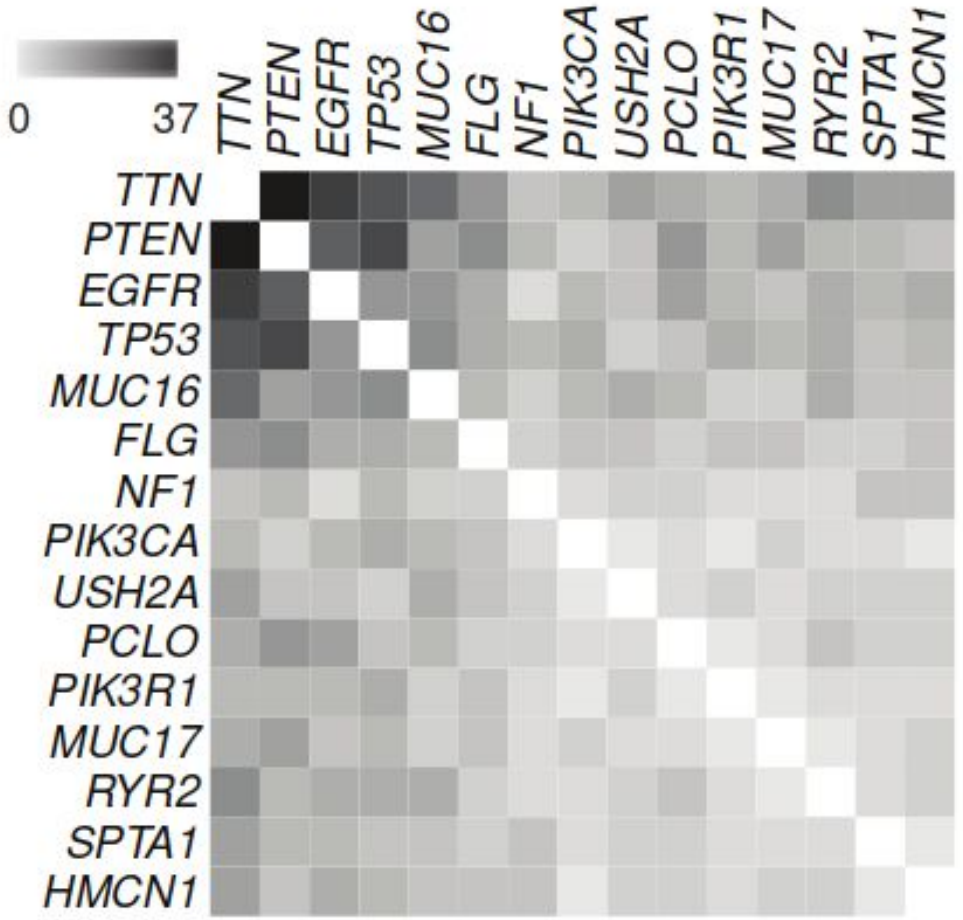



library(**UpSetR**)

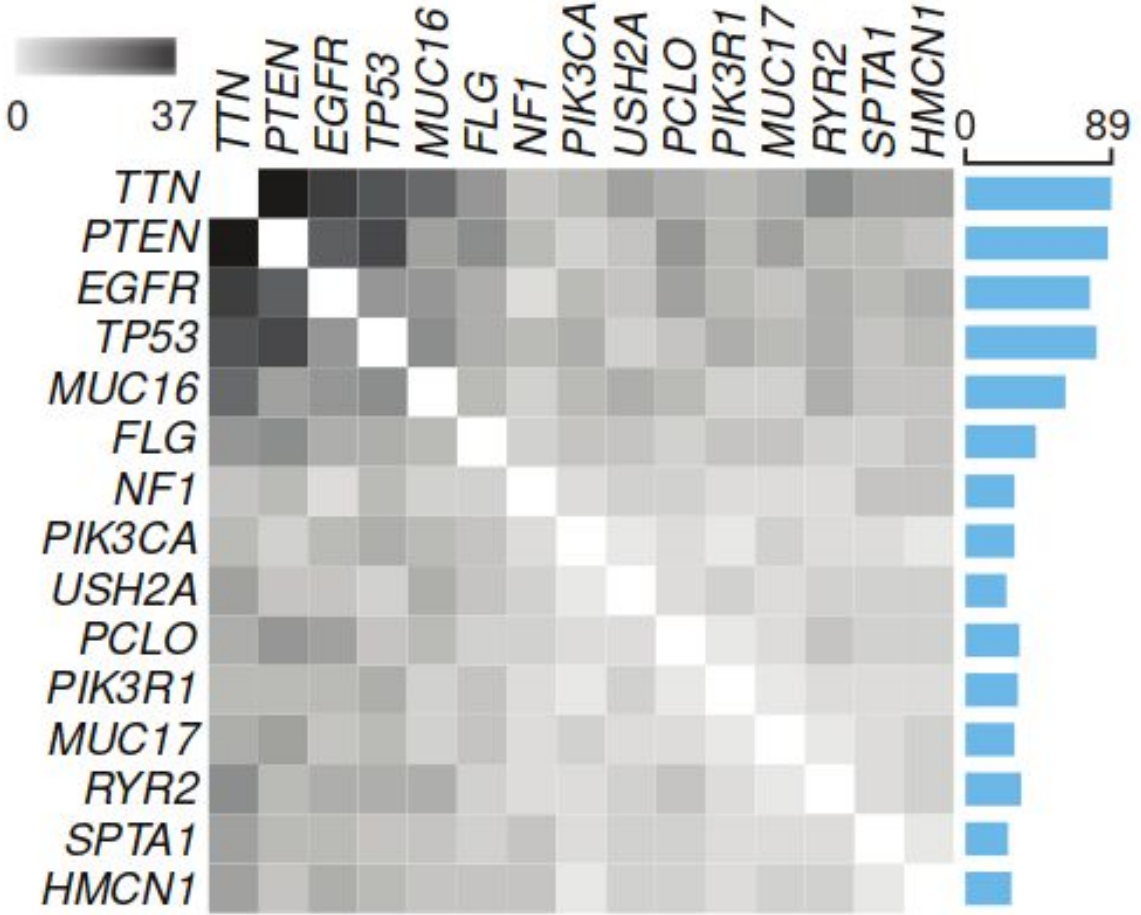
# http://vcg.github.io/upset/



# Mapa ciepła


0
37
TTN
PTEN
EGFR
TP53
MUC16
FLG
NF1
PIK3CA
USH2A
PCLO
PIK3R1
MUC17
RYR2
SPTA1
HMCN1

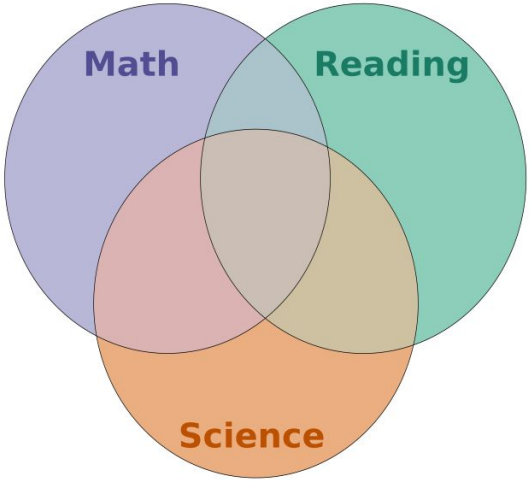
# Mapa ciepła

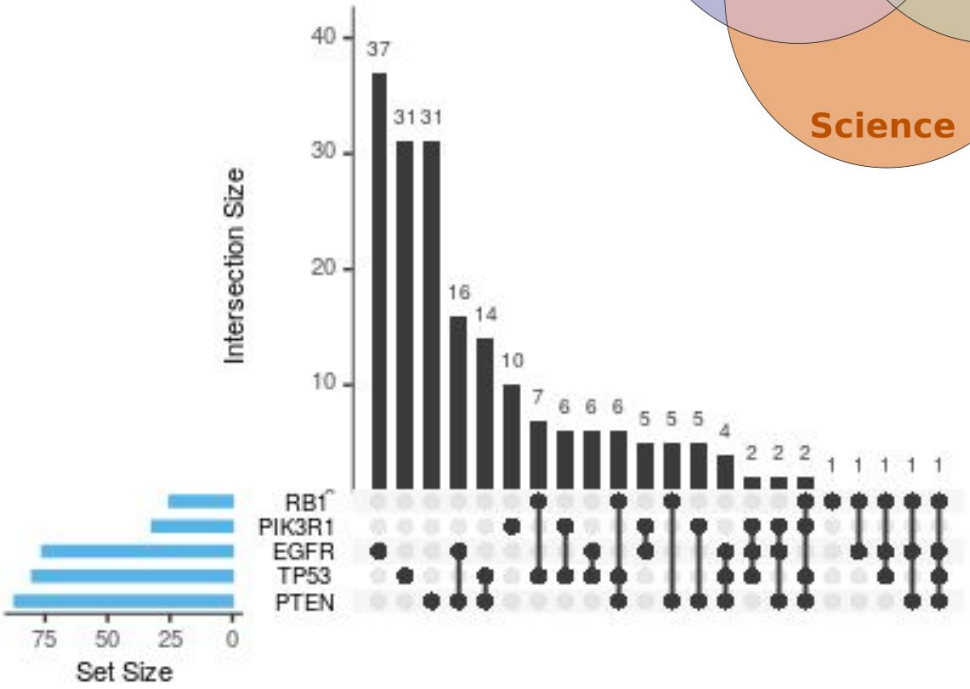

0
37
TTN
PTEN
EGFR
TP53
MUC16
FLG
NF1
PIK3CA
USH2A
PCLO
PIK3R1
MUC17
RYR2
SPTA1
HMCN1
0
89

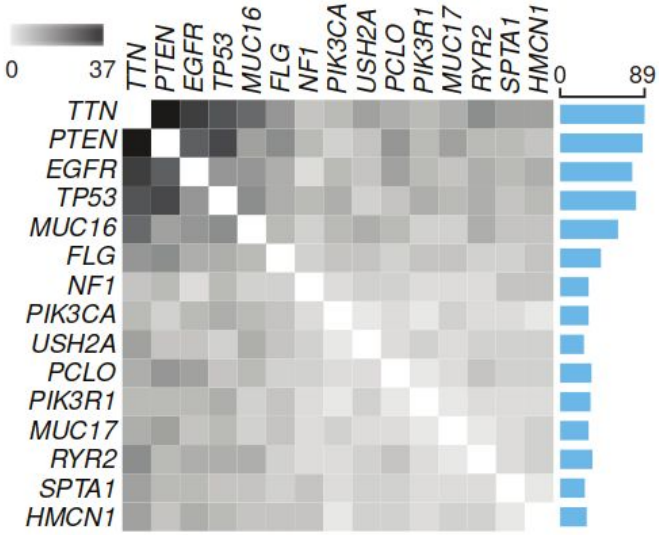
# Mapa ciepła

```
ggplot(data = gene_mutations,
           aes(x = gene_a, y = gene_b)) +
  geom_tile(aes(fill = intersection_size))
```

# Podsumowanie



# Na podstawie:

**Lex & Gehlenborg, “Sets and Intersections”, Nature Methods** 11, 779 (2014)