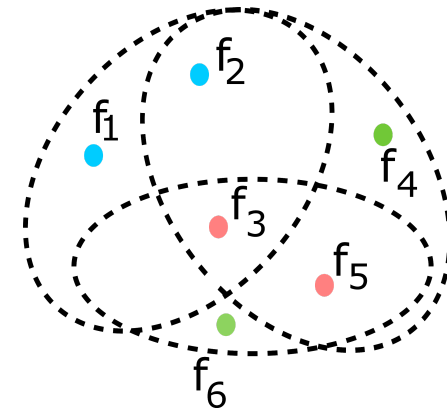


# Redundancy-aware unsupervised ranking based on game theory

*Application to gene enrichment analysis*

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## Methods:

coalitional game theory  
Shapley values  
jaccard rate

## Goals:

- find importance scores for gene sets
- reduce size of gene sets collections
  - high coverage of genes
  - low dimensional intersections among gene sets
  - increase statistical power for GSA

## Results:

rankings of gene sets showing *high coverage* and *low redundancy*  
integration of redundancy-awareness in Shapley values  
gene sets' collections with lower size