

# Approximation for SC

Minimum Set Cover - **NP-hard** problem

(maximum is trivially  $m$ )

## **Greedy Algorithm:**

Initialize set  $C$  to empty set

While there are uncovered nodes:

- Choose a set  $F$  which covers the largest number of uncovered nodes
- Put  $F$  to  $C$
- Remove all nodes covered by  $F$

**Output:** witness set  $C$  and its size

# Approximation Algorithms For Np Hard Problems

**Daniel F McAuley**



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