

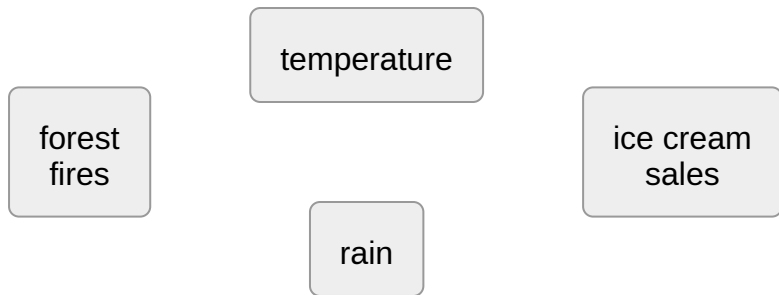
# **Applied Data Analytics**

## **Data analysis — Interpretation challenges**

### **Using graphs for modelling**

Hans-Martin von Gaudecker and Aapo Stenhammar

# Forest fires and ice cream sales



# Marshmallows and education

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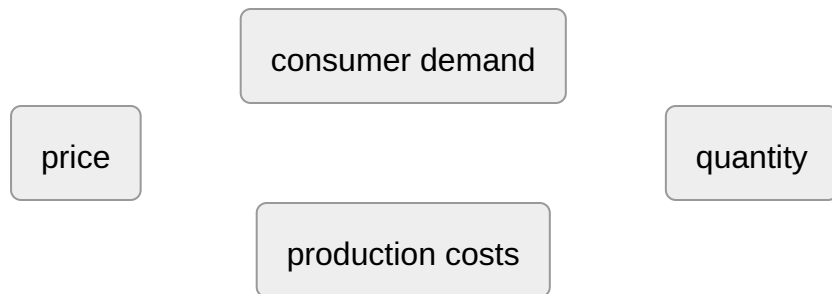
grab marshmallow  
immediately

patience at age 15

educational  
attainment

parental background

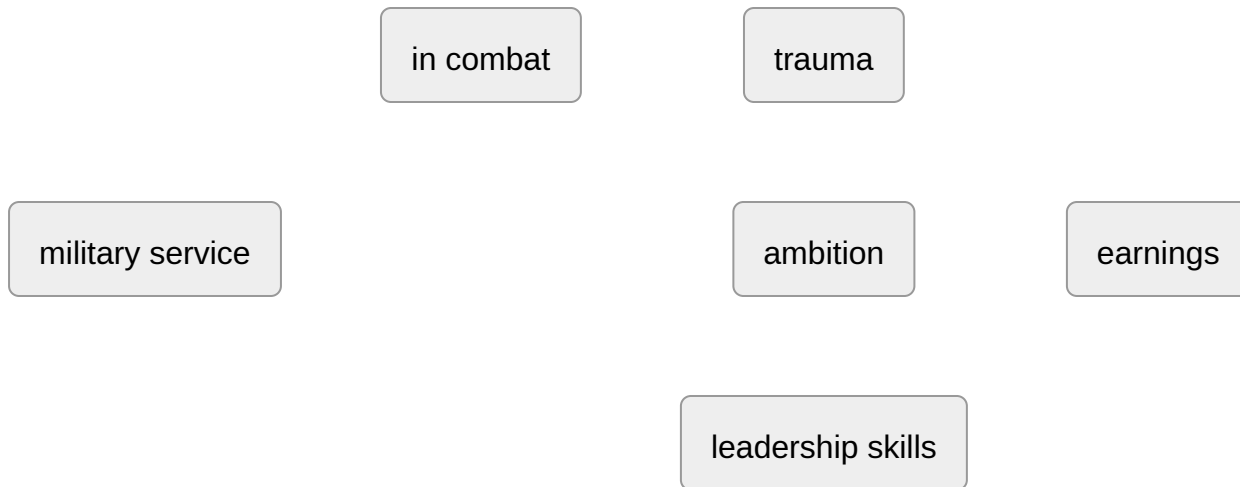
# Supply and demand



# Income and health



# Military service and earnings



# Steps to structure models

1. Start from a large model with many variables.
2. Only then remove paths based on arguments about how the world works (theory!)

Missing paths are restrictions!