

TITLE

Bayesian Networks using Python

OBJECTIVES

- Create a Bayesian Network in Python

PREREQUISITES

- Python 3+.
- [Online Python IDE](#)
- **Solved problem no. 8**

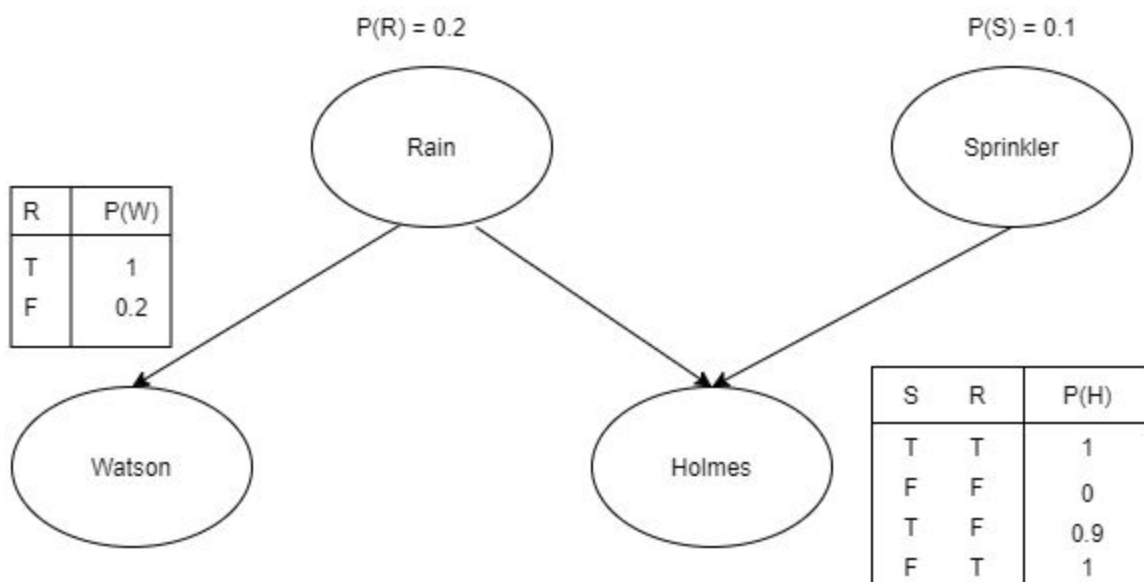
RESOURCES

- Course Slides (Chapter 9)
- [Python Tutorial](#)

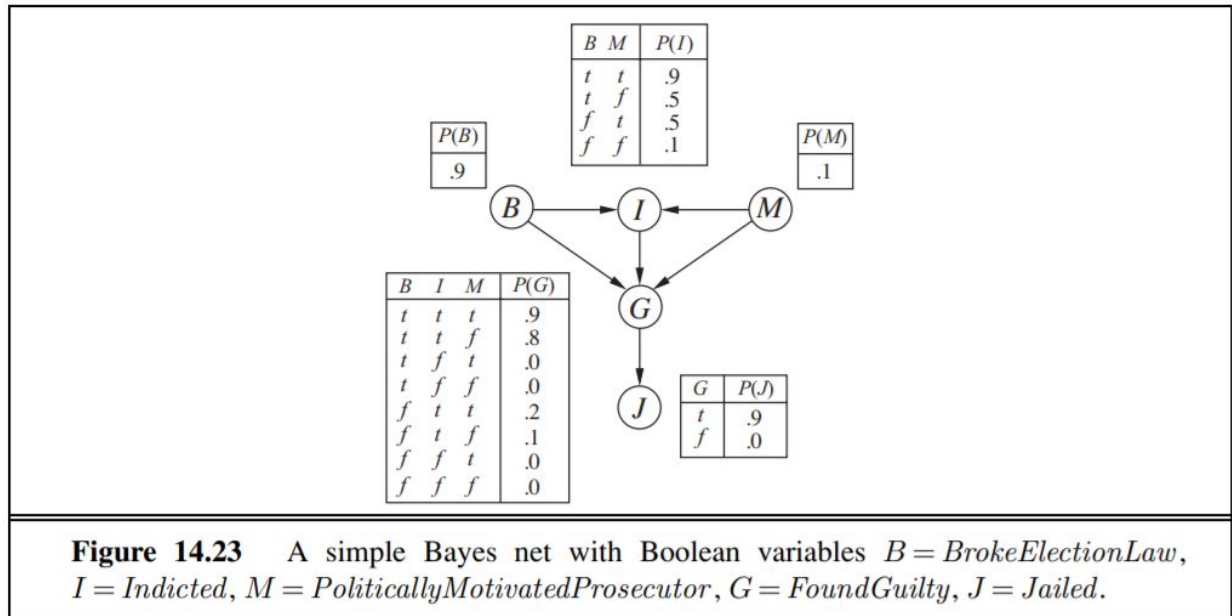
LAB

Analyze the given code (the code is commented so that you can understand how to apply to your problems). A description of the code could be also found in the HTML file provided.

An example of how to build the Bayesian Network of the Mr. Holmes example from chapter 9 is presented in the code.



Based on this example try to solve the following exercise:



- Build the Bayesian Network in Python
- Calculate the value of $P(b, i, \neg m, g, j)$. First, you have to do it manually and then you can check using the programming technique.