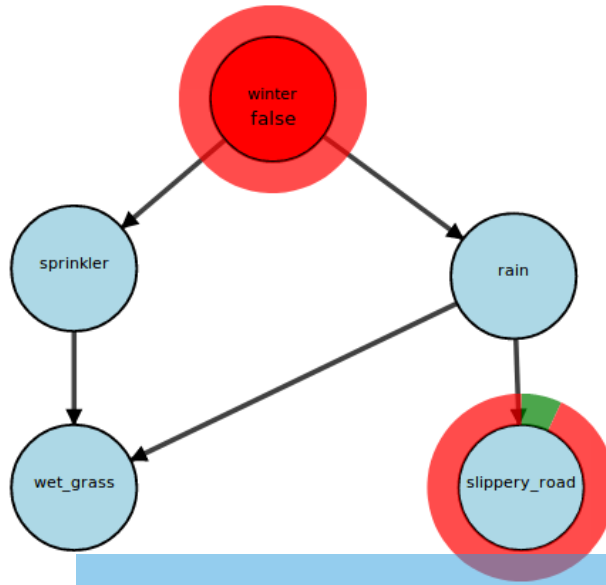


sprinkler	
true	75%
false	25%



rain		
winter	true	false
true	0.8000	0.1000
false	0.2000	0.9000

Student project / BA-Thesis

Interactive Visualisation of Bayesian Networks

Topic

Bayesian Networks offer a nice and intuitive framework for probabilistic reasoning and their graphical nature can often be interpreted quite nicely. We have a d3.js based visualization which allows us to create and modify networks used by our inference implementation PRIMO (<https://gitlab.uni-bielefeld.de/scs/PRIMO>) while performing inferences, but it can still be improved to be even more user friendly or be applicable to a wider range of networks (e.g. Bayesian Decision Networks).

Tasks

- Extend or redo the existing web-based visualization prototype.
- (Optional) Improve or extend the existing PRIMO backend.

Useful skills

- Basic knowledge of Bayesian Networks and probabilistic inference
- Experience with web-based visualization (e.g. d3.js, react)

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View online