





# IDALAB

EFFICIENT DATA ANALYSIS SOLUTIONS



PARIS  
LODRON  
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FOR AIRPLANE

# Remarks on MDPs

• Mainly we have PROMs

➔ Try to find a state which provides sufficient statistics to solve your problem  
(internal representation of the agent) - not world state



• Why is MDR so popular?

It always possible to make an MDP- by including sufficient information

What if not Markov?

• What happens? Q-learning example

• Montecarlo-No need for Markov assumption

• History in Closures - RNNs, LSTMs

- **Extreme: Bandits  $\rightarrow$  no states (little knowledge about state)**





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    - History inclusion - RNNs, LSTMs
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# Annika Slide

**Sufficient model?**

**Learn model**