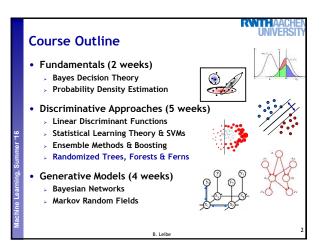
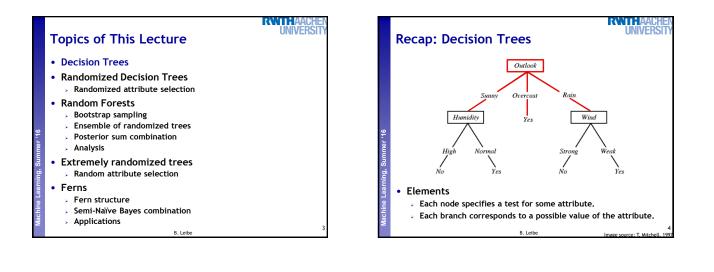
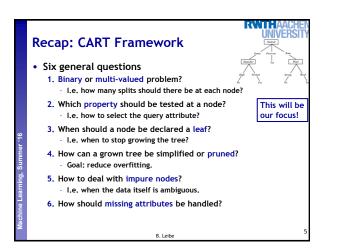
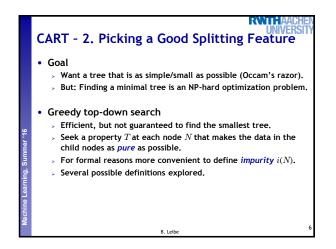


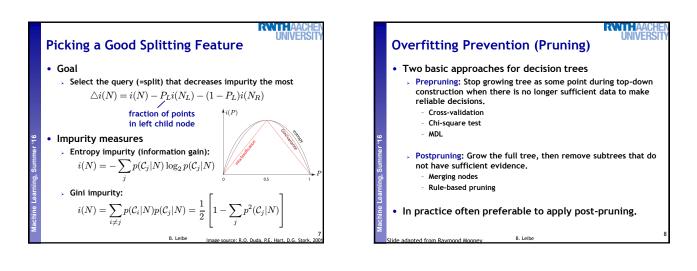
leibe@vision.rwth-aachen.de

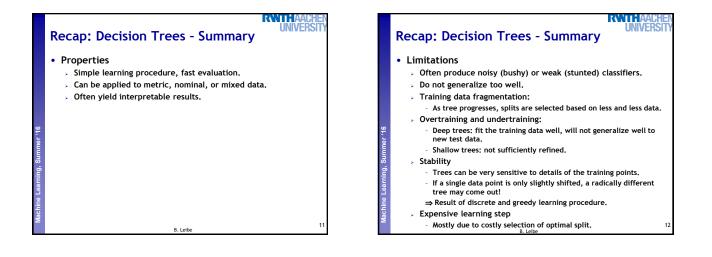


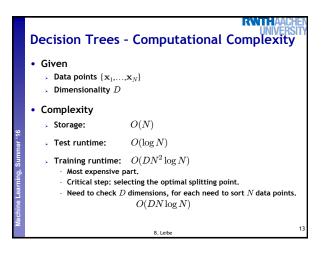


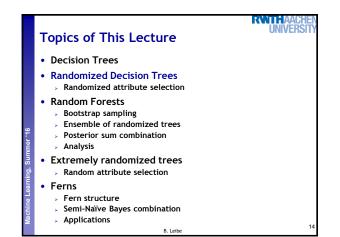


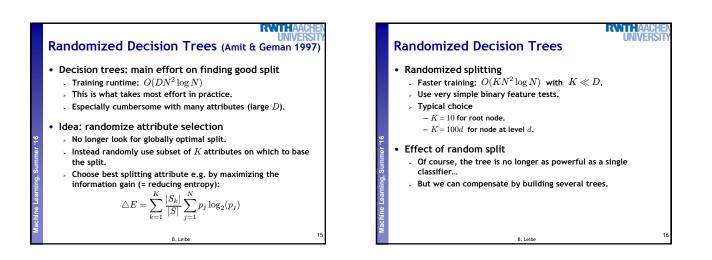


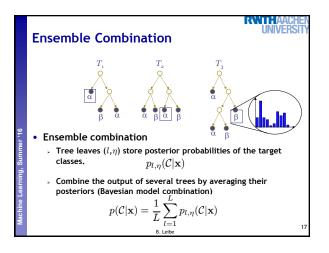


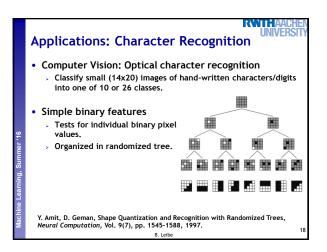


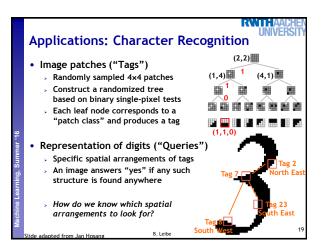


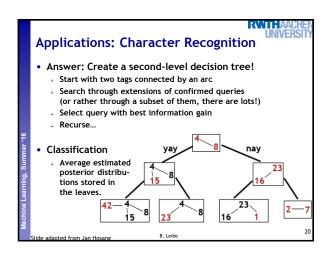


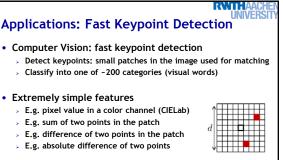








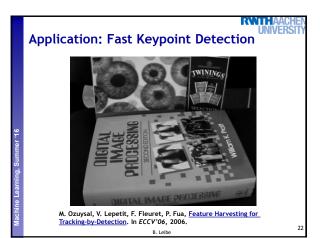


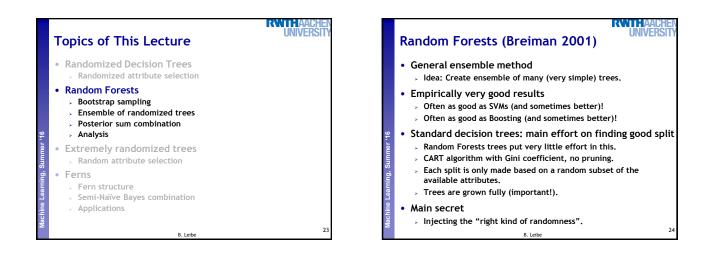


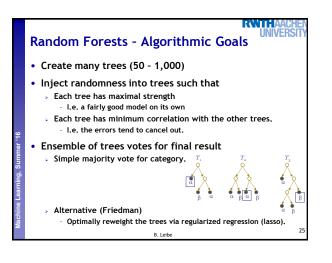
## Create forest of randomized decision trees

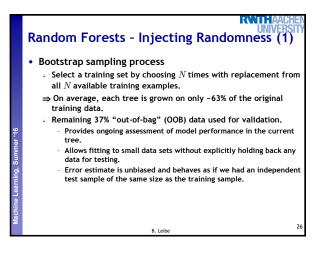
- > Each leaf node contains probability distribution over 200 classes
- > Can be updated and re-normalized incrementally.

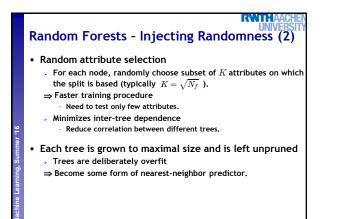
B. Leibe



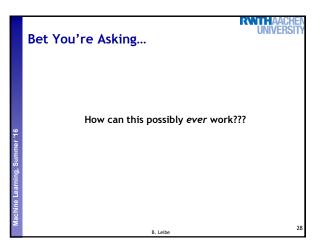


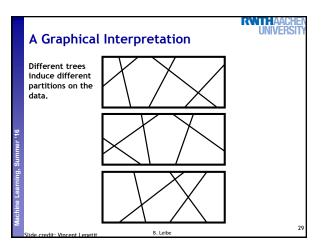


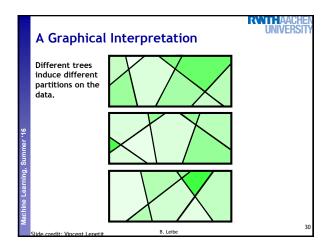


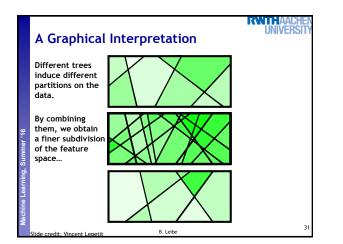


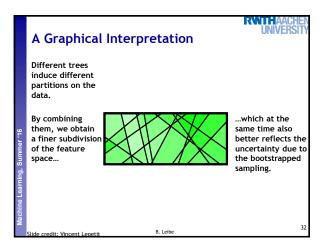
B. Leibe

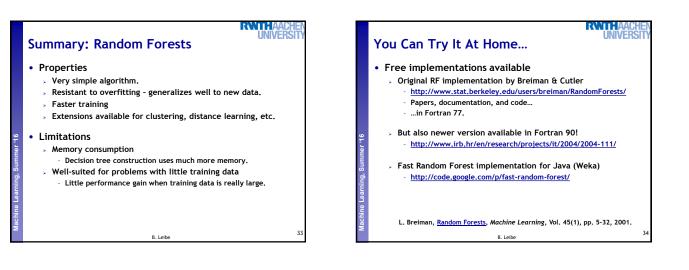


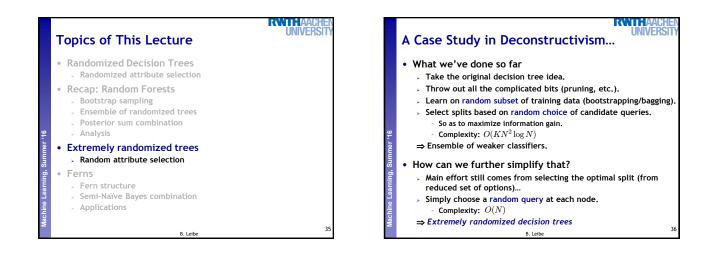


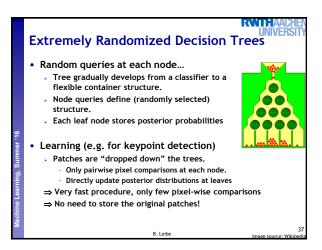


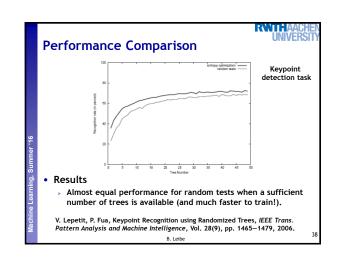


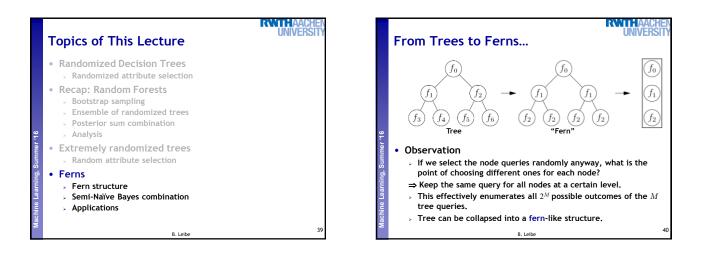


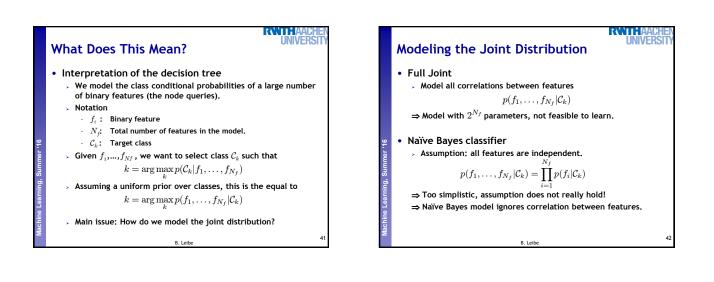


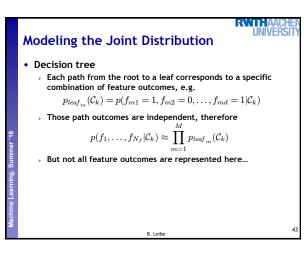


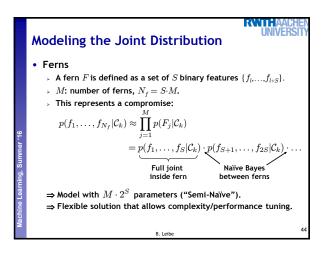


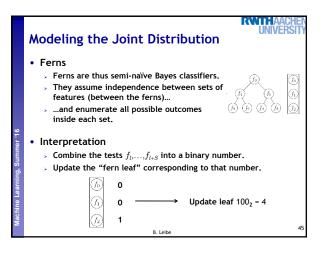


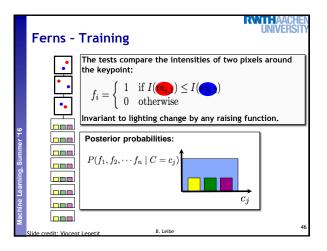


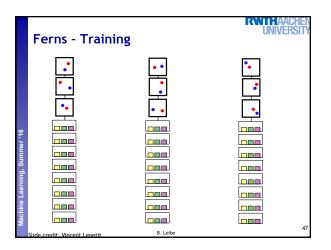


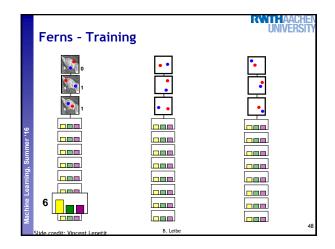


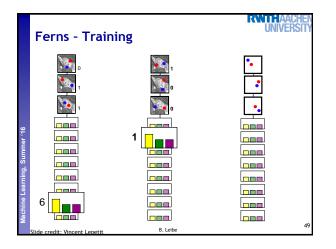


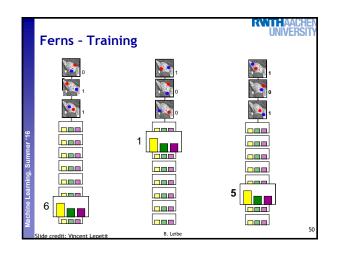


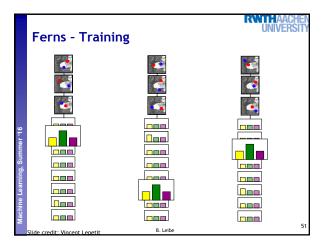


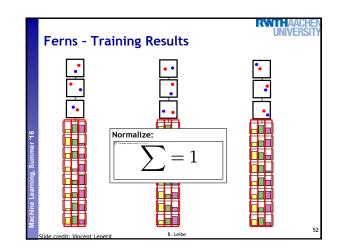


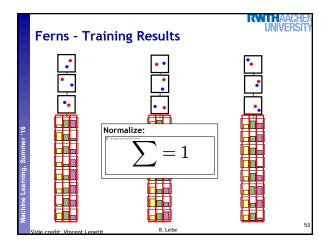


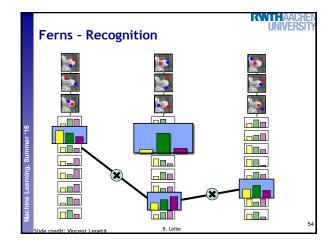


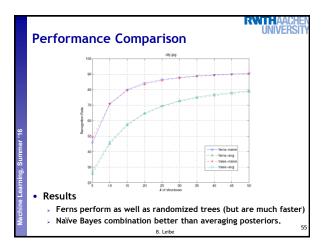


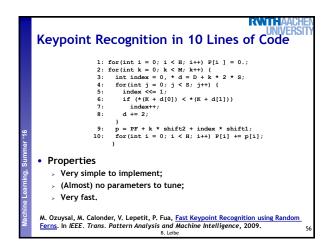


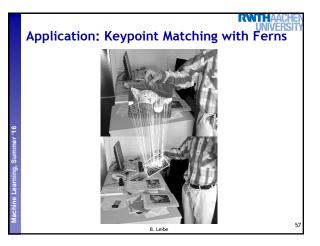




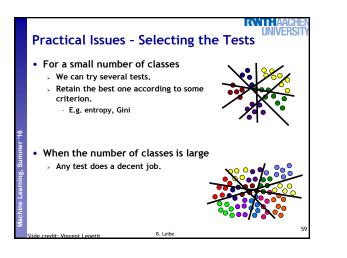


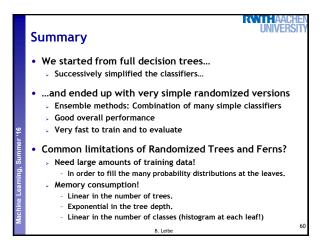












R	eferences and Further Reading
	<ul> <li>The original papers for Randomized Trees</li> <li>Y. Amit, D. Geman, Shape Quantization and Recognition with Randomized Trees, <i>Neural Computation</i>, Vol. 9(7), pp. 1545-1588, 1997.</li> <li>V. Lepetit, P. Fua, Keypoint Recognition using Randomized Trees, <i>IEEE Trans. Pattern Analysis and Machine Intelligence</i>, Vol. 28(9), pp. 1465–1479, 2006.</li> <li>The original paper for Random Forests:</li> </ul>
	<ul> <li>L. Breiman, Random Forests, Machine Learning, Vol. 45(1), pp. 5-32, 2001.</li> </ul>
•	The papers for Ferns:
	<ul> <li>M. Ozuysal, M. Calonder, V. Lepetit, P. Fua, <u>Fast Keypoint Recognition using Random Ferns</u>. In <i>IEEE. Trans. Pattern Analysis and Machine Intelligence</i>, 2009.</li> <li>D. Wagner, G. Reitmayr, A. Mulloni, T. Drummond, D. Schmalstieg, <u>Pose Tracking from Natural Features on Mobile Phones</u>. In <i>ISMAR 2008.</i></li> </ul>
	B. Leibe 61