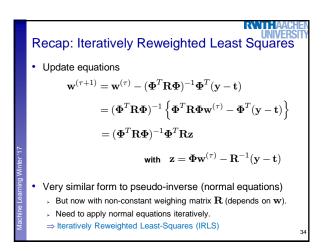
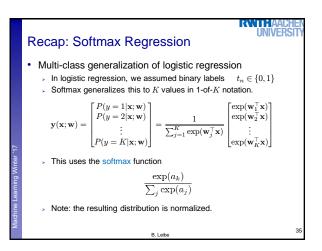
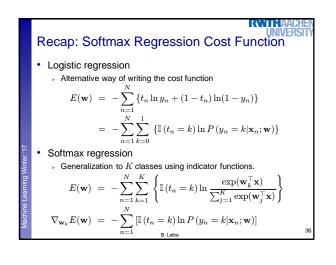
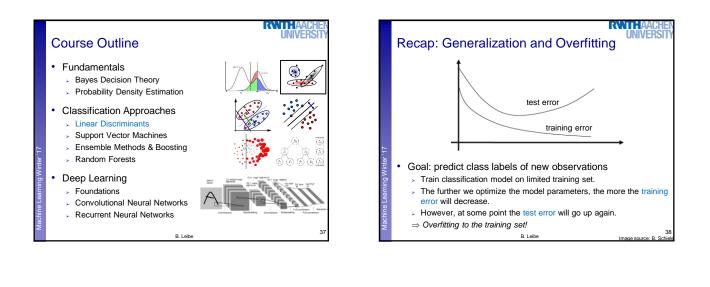


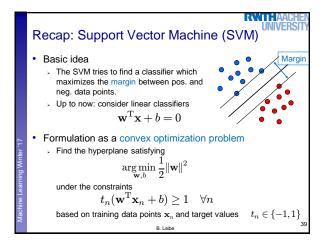
	Recap: Iterative Methods for Estimation
	- Gradient Descent (1 st order) $\mathbf{w}^{(\tau+1)} = \mathbf{w}^{(\tau)} - \eta \left. \nabla E(\mathbf{w}) \right _{\mathbf{w}^{(\tau)}}$
	 Simple and general Relatively slow to converge, has problems with some functions
	• Newton-Raphson (2 nd order) $\mathbf{w}^{(\tau+1)} = \mathbf{w}^{(\tau)} - \eta \ \mathbf{H}^{-1} \nabla E(\mathbf{w}) \big _{\mathbf{w}^{(\tau)}}$
ם רבמו ווווא אוו	where $\mathbf{H} = \nabla \nabla E(\mathbf{w})$; the Hessian matrix, i.e. the matrix of second derivatives. \succ Local quadratic approximation to the target function
	 Faster convergence B. Leibe 33

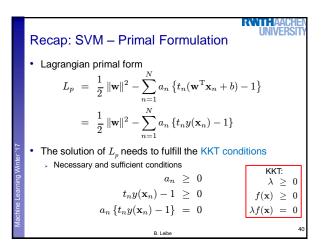


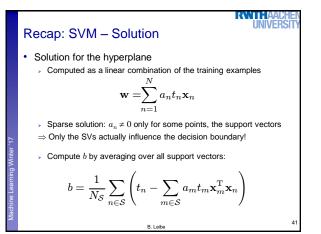


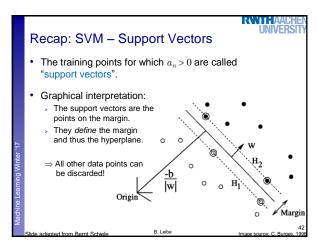


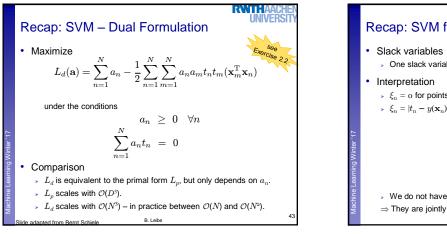


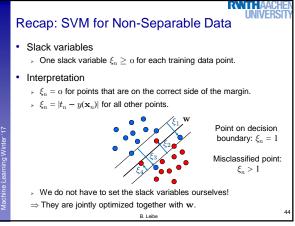


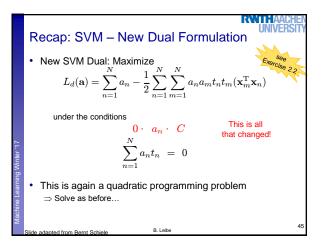


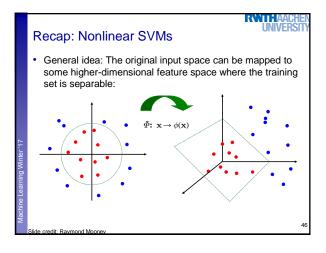


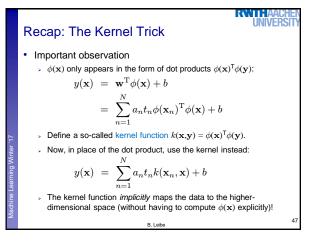


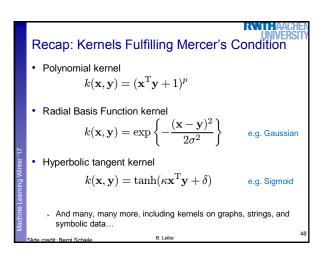


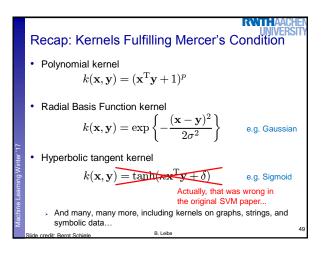


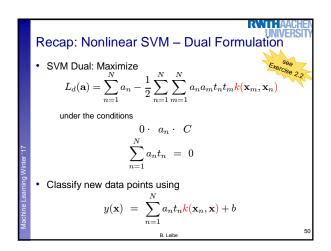


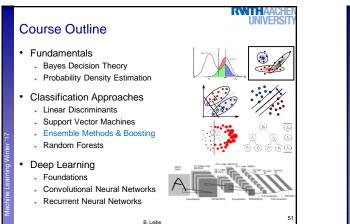


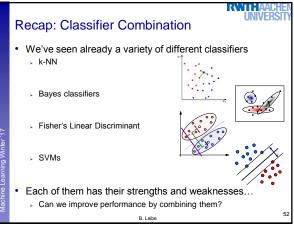


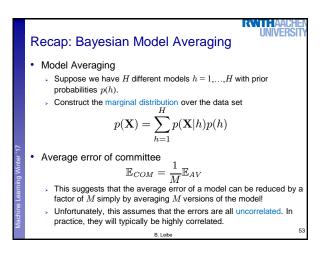


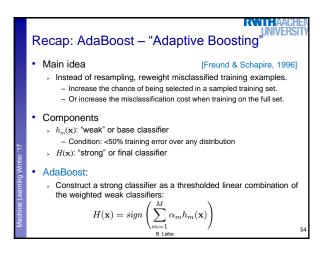


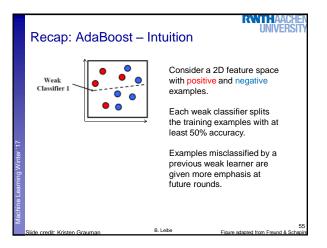


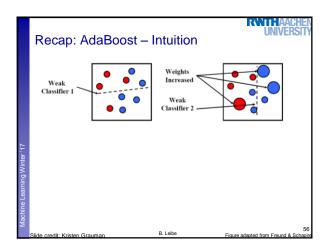


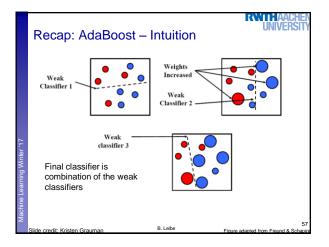


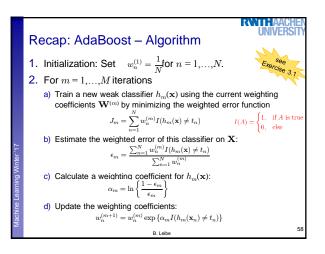


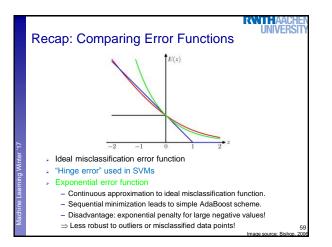


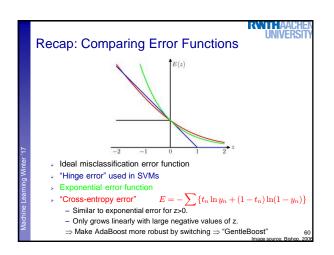


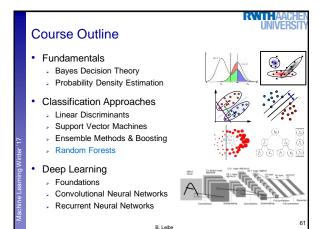


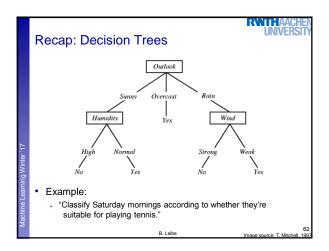


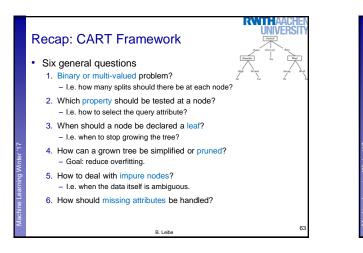


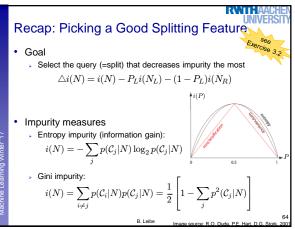


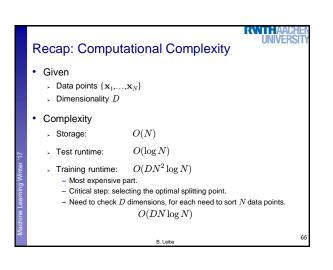


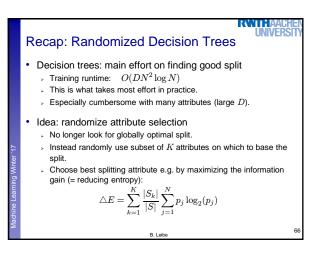


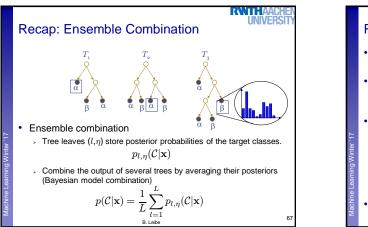


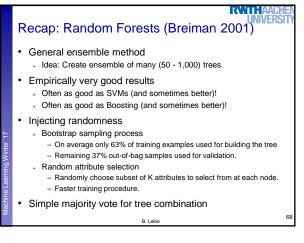


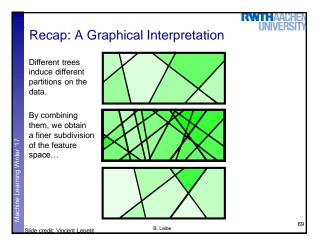


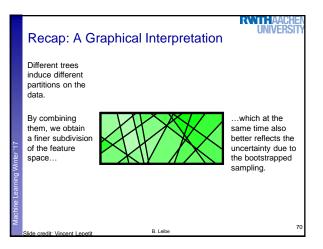


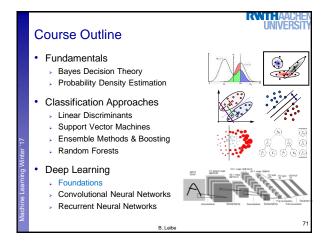


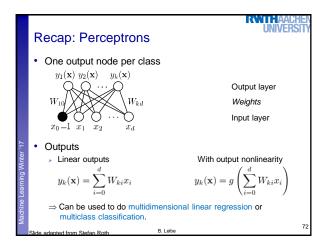


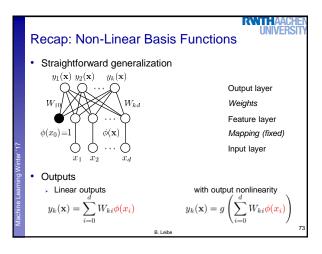


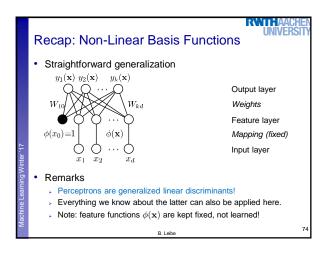


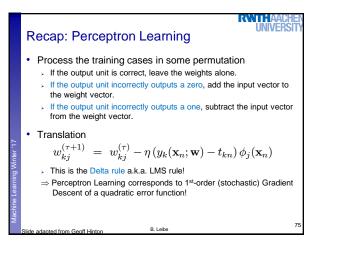


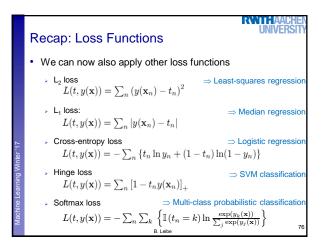


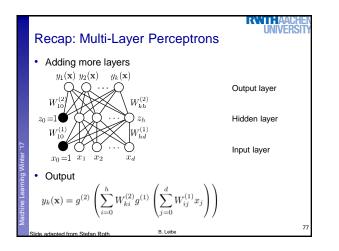


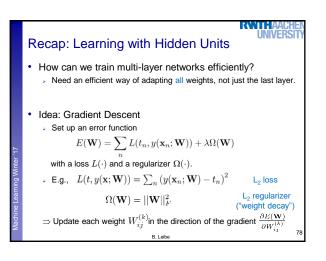


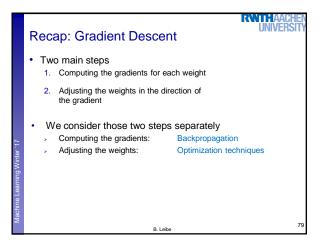


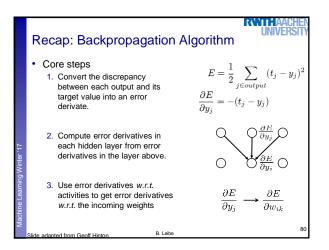


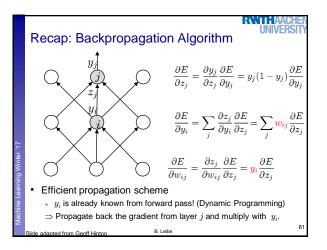


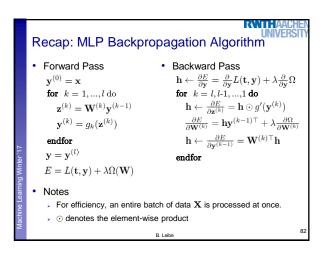


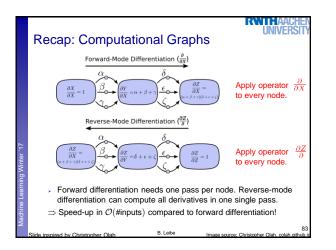


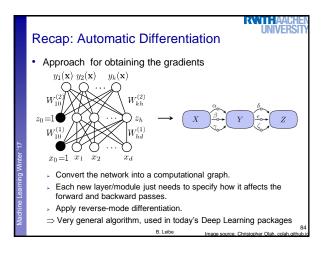


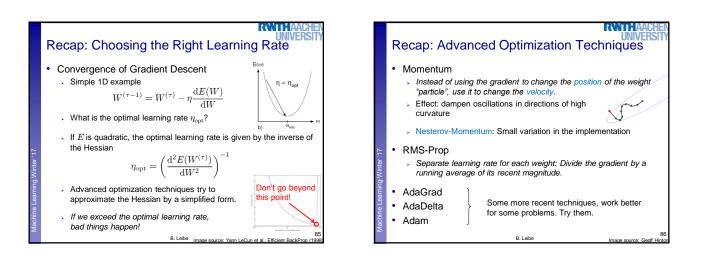


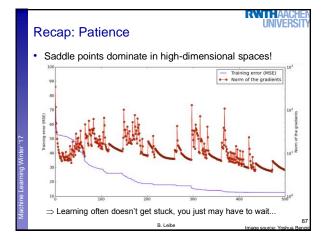


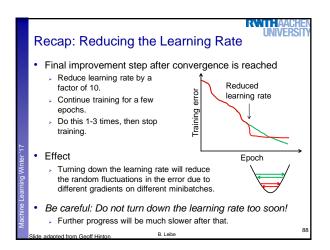


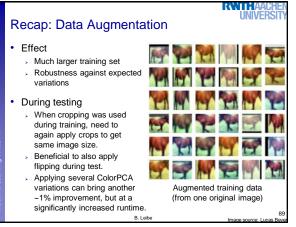


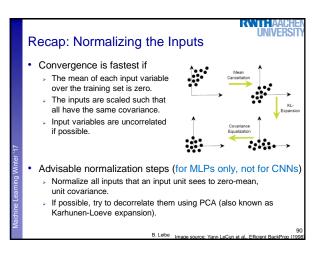


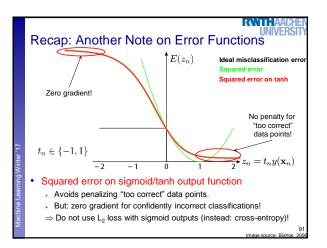


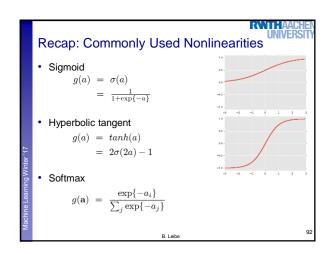


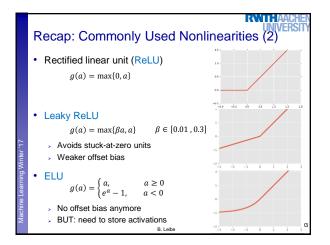


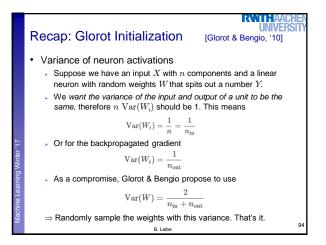


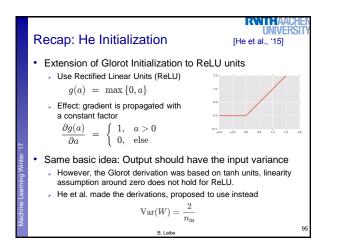


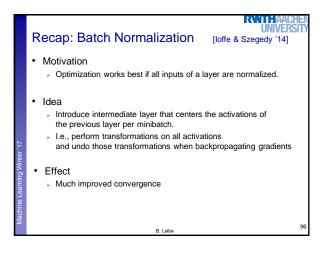


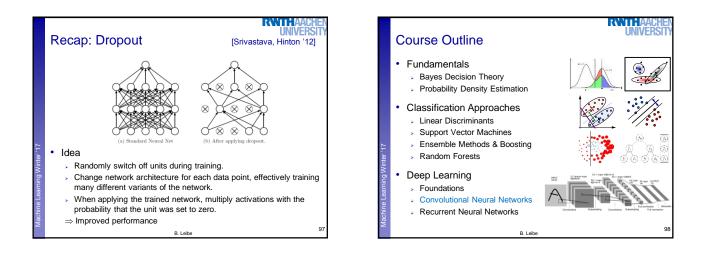


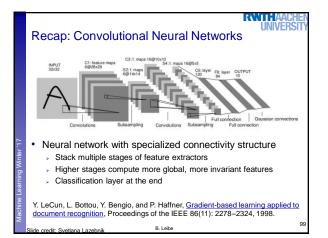


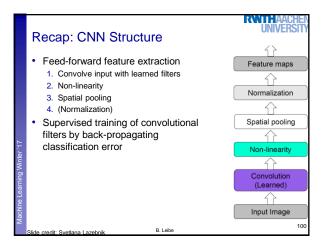


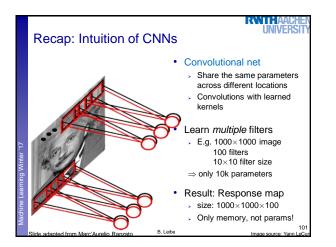


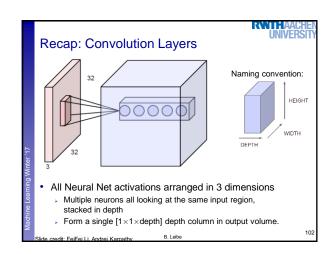


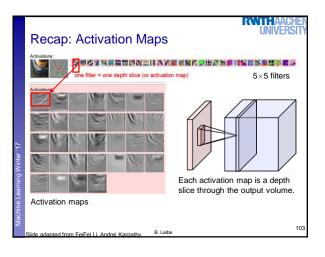


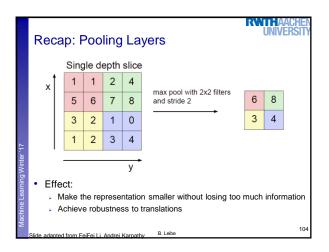


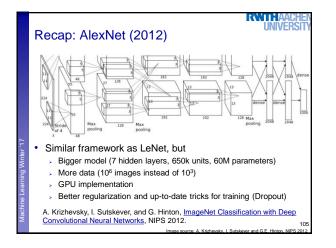


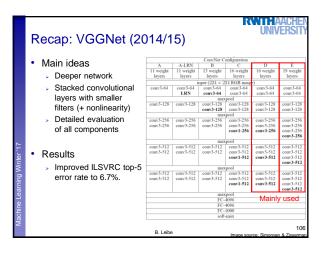


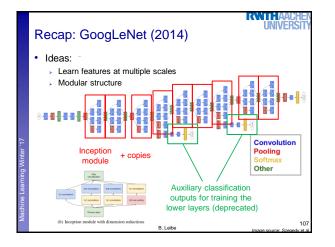


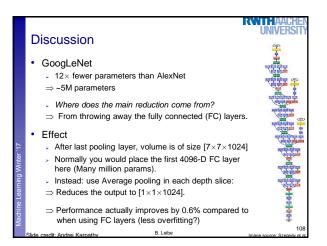


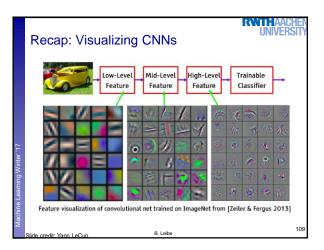


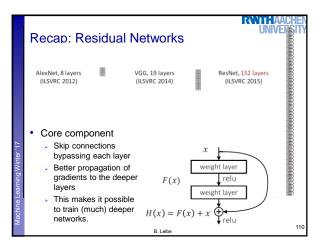


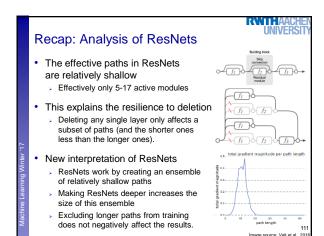


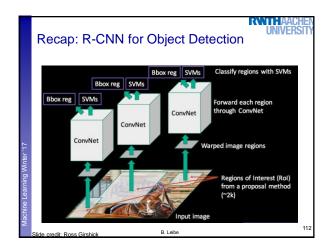


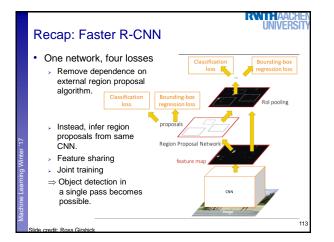


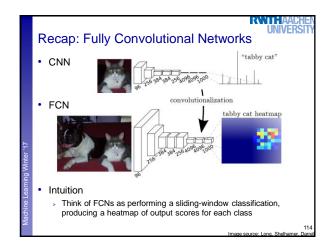


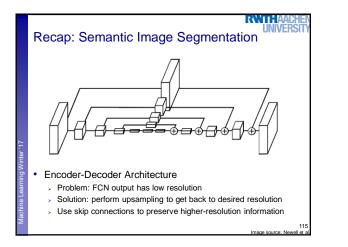


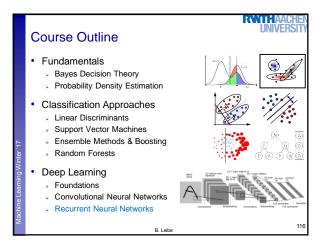


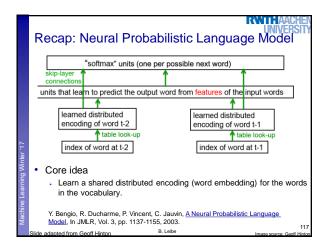


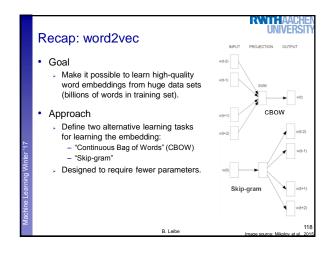


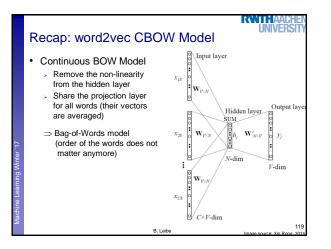


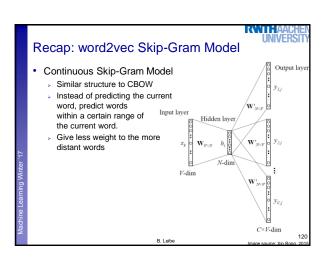


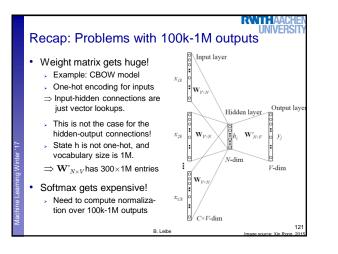


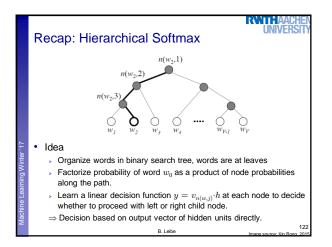


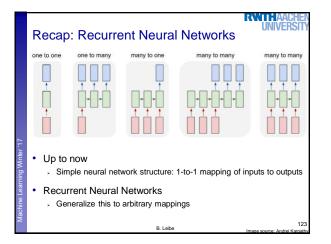


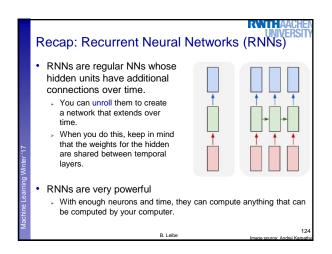


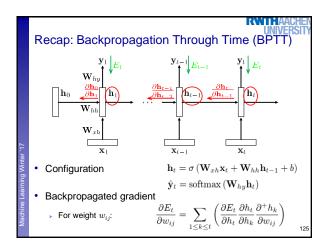


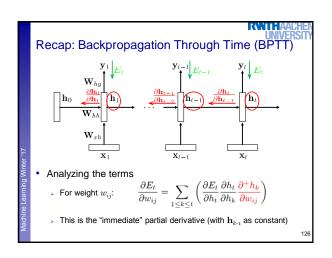


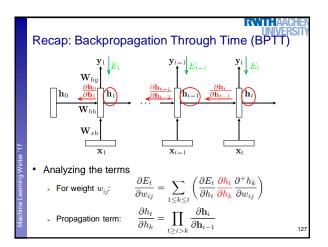


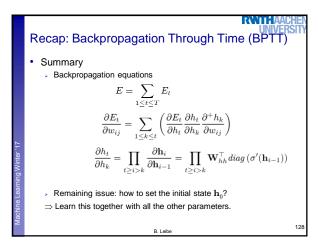


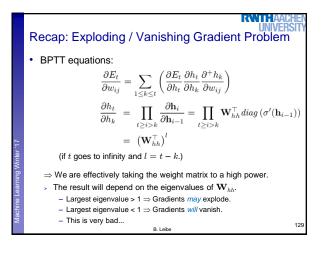


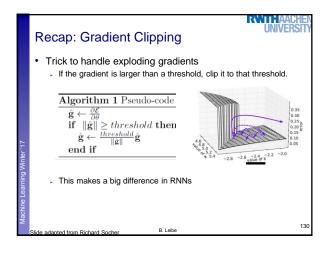


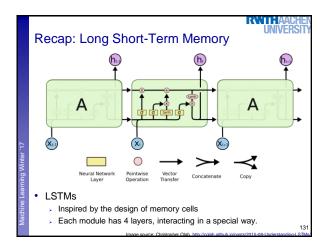


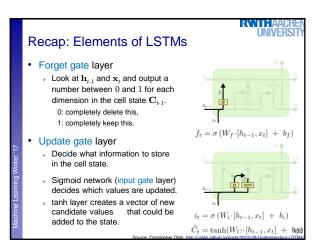


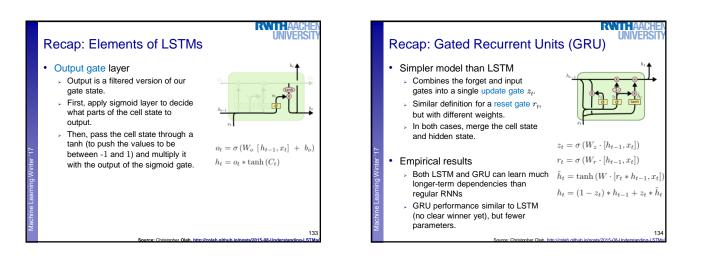












Any Questions?	RWITH AACHEN UNIVERSITY	Any More Questions?	RWITH AACHE UNIVERSIT
So what can you do wit	th all of this?	Good luck for the e.	kam!
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