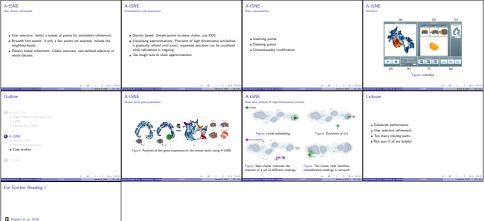
	Outline	Outline	High dimensional data
A-ISNE Approximated and our strandshift for progressive visual analytics Microle Protection of Annual Protection of Control March 9, 2017	Production     If distribution of data via     Compared and the via     Compared and the via     Compared and the via of the vi	Honductue     Honductual data via     Company     deformation data via     Company     deformation     Company     Company     Company	<ul> <li>Most net world datasets are high dimensional.</li> <li>High dimensional data via hand.</li> <li>Othermiseality enduction to the rescue.</li> </ul>
Total Personal and Personal by Locale Annual Marine 2007 1 / 20 Outline	tool / second and in Presented by Landon Vicent Vic	Line Desires of all Proceeding Desires	Outline
	A tool for dimensionality subaction /wir of high dimensional data.     A most for dimensionality subaction /wir of high dimensional data.     Conserve simulations dimensional parts in high dimensional queues to june parallelity distributions <i>P</i> .     Const Responses of Patholity using Q.	windows Minimia Kallack Lable dargers between P and Q. Use gradent descent for minimization. • Each point attracts or reach all other points with a force F.	Production     Production     Product and then the     Product and the
- D (0 3 3 3 3 3	- 0 0 1 5 - 3 95 Dele Parent al France In Josef	- 日	
Barnes-Hut SNE  Original SNE use brute force approach for <i>F</i> .  Computation and memory comparison of O( <i>F</i> )  Computation and SNE is an evolution of DNE.  (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Barnes-Hut SNE		ALSNE bundenter • Endution of B1-SNE. • One approximations to generate surful intermediate results. • Approximation defined by same.
Original SDE uses brats force approach for F.     Original distances of any complexity of O(e <sup>2</sup> ),     e Banna-Hol SDE is an evolution of USNE.	$\star$ Uses two approximations. $\star$ Approximation 1: Similarities between data points are compared by only taking and reason tangkhown $N$ . $\star$ Approximation 2: One Barnes-Het Agenden $\star$ Approximation 2: One Barnes-Het Agenden $\star$ O(N) (het (H))) and O(N) respectively.	Orientations         • End (a data with a data w	Nonderstan • Concision of BH-SSNE • Una approximation to generate usuful intermediate result. • Approximation defined by user.



Approximated and user steerable tsne for progressive visual analytics. IEEE Transactions on Visualization and Computer Graphics, 2016.

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