

D3	D3	D3 capabilities	D3 Features
 declarative infovis toolkit, in Javascript Protovis meets Document Object Model pros seamless interoperability with Web explicit transforms of scene with dependency info massive user community, many thirdparty apps/libraries on top of it, lots of docs cons even more different from traditional programming model example apps: many 	 objectives compatibility debugging performance related work typology document transformers graphics libraries infovis systems general note: all related work sections are a mini-taxonomy! [D3: Data-Driven Documents. Bostock, Ogievetsky, Heer. IEEE Trans. Visualization & Comp. Graphics (Proc. InfoVis), 2011.]	 query-driven selection selection: filtered set of elements queries from the current doc 	 document transformation as atomic operation scene changes vs representation of scenes themselves immediate property evaluation semantics avoid confusing consequences of delayed evaluation validation performance benchmarks page loads, frame rate accessibility everybody has voted with their feet by now!
 Next Time to read VAD Ch. 7: Tables <u>Visualizing Sets and Set-typed Data: State-of-the-Art and Future Challenges</u>, Bilal Alsallakh, Luana Micallef, Wolfgang Aigner, Helwig Hauser, Silvia Miksch, and Peter Rodgers. EuroVis State of The Art Report 2014. paper type: survey 	Now guest lectures on tools & resources Matt Brehmer http://www.cs.ubc.ca/group/infovis/resources.shtml 		