Reading and presenting papers



COS 518 Advanced Computer Systems

How to critically read a paper (2/2)



- Don't pass by ideas/design details until you understand
 - May need to re-read a paragraph, many times, or even discuss with peers
 - You can't fully understand if the design is good unless you understand all the details: be vigilant!
- Don't presume authors' assumptions or design choices correct simply because paper was published!

How to critically read a paper (1/2)



- · Read once for perspective, twice for details
 - Large systems have many "moving parts" (Lect. 1)
 - Analogous to "build one to throw one away", you may need to revisit the paper in order to know which design details to focus on
- Take notes as you read
 - Question assumptions, importance of problem, important effects not mentioned by authors
 - Write guestions to track what you don't understand

How to evaluate a research paper?



- Important, relevant problem? Clever idea? These are orthogonal!
- Reasonable assumptions and models?
- Longer ago published, more you can judge impact:
 - Does everyone now use systems derived from it?
 - Has the idea shown up in many different contexts?
- Recent papers: more on cleverness, promise
- · Other contributions possible
 - Thorough investigation of complex phenomenon
 - Comparison that brings sense to an area

2