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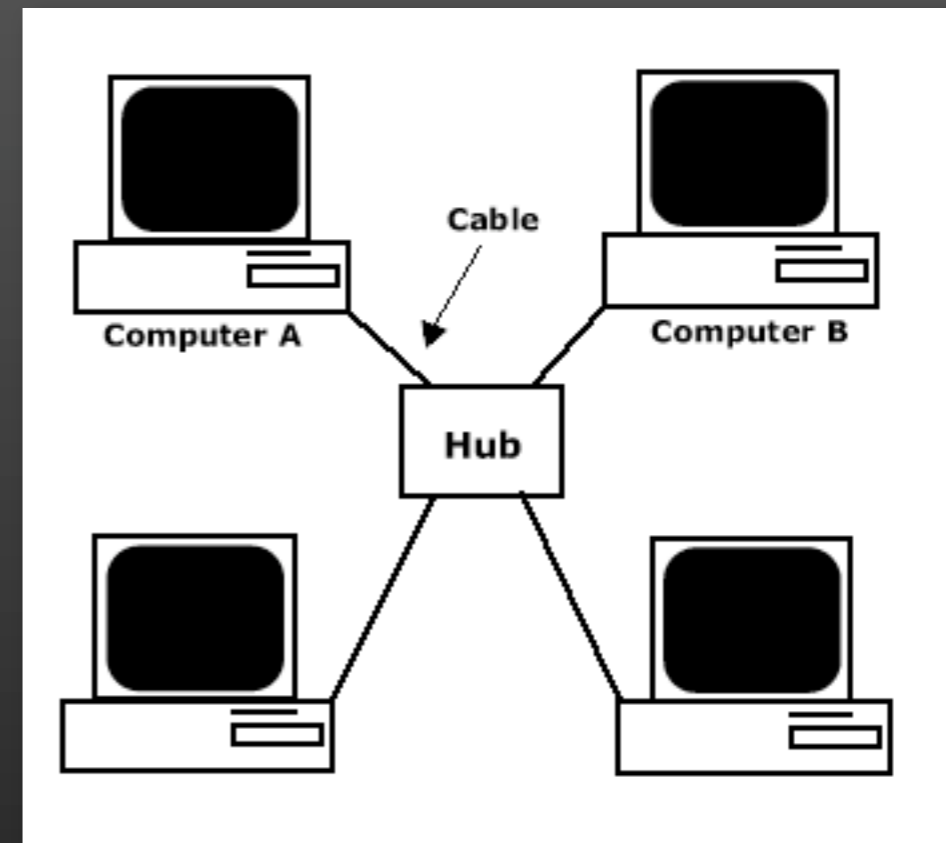
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# Cyberscience: Computational Science and the Rise of the Fourth Paradigm



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Honors 352, Class #0.11  
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Fall 2010

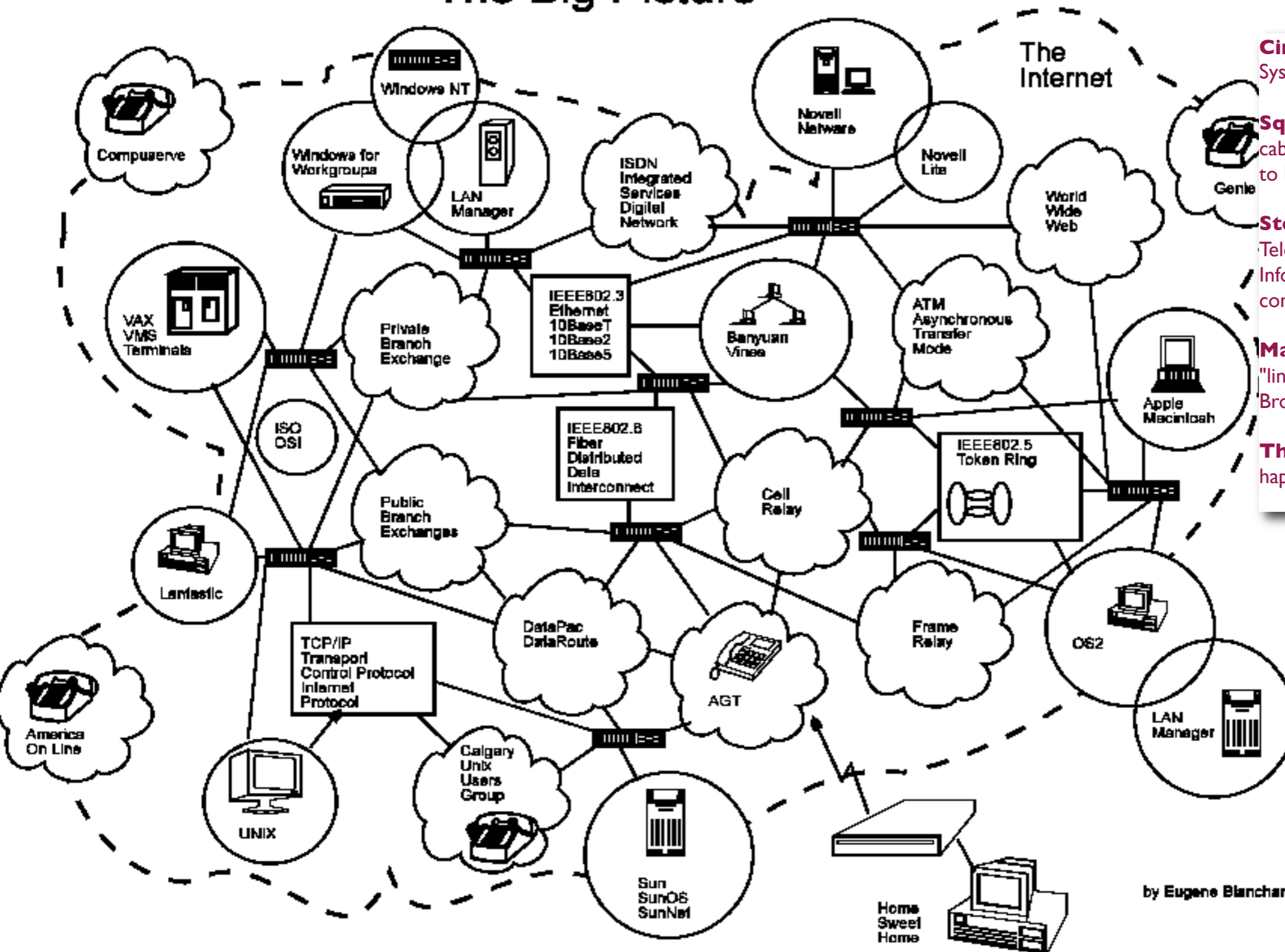


# today

- \* group updates
- \* weekend reading quiz! on-line (timed, open SUNDAY 9am-11:59pm)
- \* **exercise:** illustrate routing of packet traffic between two hosts  
(e.g. your laptop and nsf.gov server)

# internet visualization, 1999

## The Big Picture



**Circles** - Network Operating Systems

**Squares** - Communication & cabling protocols (OSI Transport to Physical Layer)

**Storm Clouds** - Telecommunications media or Information providers that connect to the Internet

**Machine symbol** - Network "linker" can be a Bridge, Router, Brouter or Gateway

**The Internet** - jagged haphazard dotted line

# Additional Source Information

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Slide 3: "Networking 101: Concepts and Definitions," Techsoup.org, <http://www.techsoup.org/learningcenter/networks/page4774.cfm>

Slide 5: Please see original image of internet networking diagram at [http://www.techbooksforfree.com/intro\\_to\\_data\\_com/page16.html#16](http://www.techbooksforfree.com/intro_to_data_com/page16.html#16).