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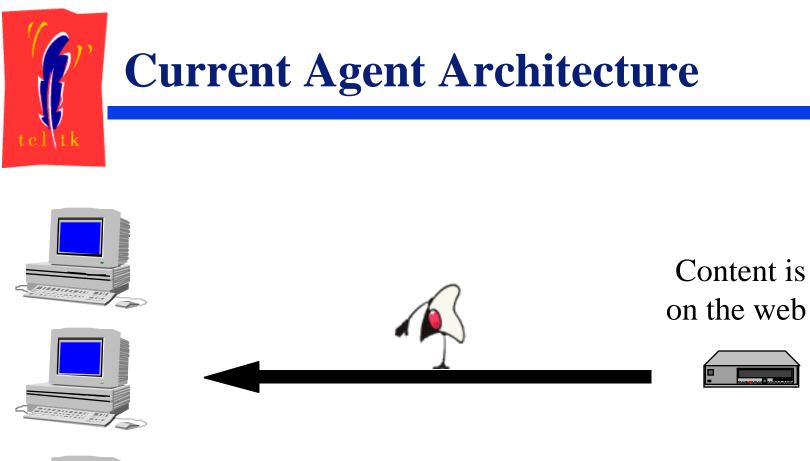**The Tcl/Tk Project**

Proposed Agent Architectures

User Creates
Agent

Companies Host
Agents

Current Agent Architecture

Content is
on the web

Netscape is the
Agent Host

Resource Discovery

- **The problem with today's architecture.**
  - Java promotes closed solutions.
  - Other agents can't use info from a closed site.
- **Content must be easy to parse by machines.**
  - Meta info: Is this a price list or Top 10 list?
  - Dynamic sites: The page is different every time!
  - Changing sites: Why doesn't that work anymore?
  - Notification: Must poll to see what has changed!

Ray's Maxim

The success of software agents will be directly related to the extent in which content becomes machine parsable.

Tcl & Java

- **Two level programming paradigm. Components!**
  - Tcl & C.
  - Visual Basic & Visual C++.
- **Tcl scripts are cross platform. Extension are not.**
- **Tcl extensions written in Java.**
  - Java allows cross platform extensions.
- **Way to view Tcl-Java relationship:**
  - Visual Basic & Visual C++.
  - Tcl & Java.