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- »Selecting a server, and switching from one server to another is easier than with telnet and ftp.
- »A gopher client can be used to search for information held on a distributed network of gopher servers.
- »A gopher client has a seamless view of the information, even though this information is distributed over many different hosts.



Gopher: the user's point of view

- Gopher serves as a *menu* system for networked information. Computer IP addresses are not required.
- The user connects to one of the gopher servers around the world and receives an initial (or "root") menu listing the resources it has to offer.
- The menu can include submenus.
- Clients can navigate through these directories / menus.
- Each gopher server presents a hierarchy established by the local administrator.



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Gopher: requirements of client / browser programs

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Gopher clients on your microcomputer need a way

»to display text files on the user's screen

»to display graphics files on the user's screen

»to play audio files using sound-card and speaker system

»to play animations / video's

»to open telnet sessions

»...







Gopher efficiency

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- The gopher server does not retain any information about the client across transactions.
- This aspect of the gopher design is the key to gopher's *efficiency*: the server is only connected to the user long enough to serve a particular request, and it does not pay the high overhead cost of having hundreds or thousands of users "logged in" at once.



Gopher:

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the power / size of gopher space

- More than 6 000 gopher servers were active around the world in 1995.
- These servers offered menus with more than 15 million references.
- However, the WWW offers similar and more powerful features and has pushed away gopher during the second part of the 1990's.



Veronica:

access

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- Veronica is simply accessed through a gopher client, which is already known by gopher users. Select veronica from a suitable gopher menu.
- There are no veronica clients per se.

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• By default, veronica looks for an exact match with you search term.

So, use the trailing wild-card character (*) at the end of your search term, when appropriate.









Veronica: limitations and problems

- Only the name of an item in a gopher menu can be searched, not the contents of the text documents in gopher space.
- The matching entries listed are often times out of context.
- The degree of redundancy in the matching entries listed, can be high, reflecting redundant items.
- As the WWW and search systems for the WWW have become more powerful, gopher and veronica have become obsolete.

