### Web Authentication with Shibboleth

A view from the Flat East

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NCSA Mosaic fo	r MS Windows	
<u>F</u> ile <u>E</u> dit <u>O</u> ptior	ns <u>N</u> avigate Hotlist Annotate	<u>H</u> elp
Document Title:	I NCSA Mosaic Home Page	
Document URL:	http://www.ncsa.uiuc.edu/SDG/Software/Mosaic/NCSAMosaicHome.html	
XWindow	C S A OSAIC System + Microsoft Windows + Macintosh	1
Mosaic was University	NCSA Mosaic, an Internet information browser and World Wide Web client. NCSA developed at the National Center for Supercomputing Applications at the of Illinois in> Urbana-Champaign. NCSA Mosaic software is copyrighted by of Trustees of the University of Illinois (UI), and ownership remains with the	
Jan `97		
and we've this techn received i	re Development Group at NCSA has worked on NCSA Mosaic for nearly four years learned a lot in the process. We are honored that we were able to help bring ology to the masses and appreciated all the support and feedback we have n return. However, the time has come for us to concentrate our limited in other areas of interest and development on Mosaic is complete.	
All inform	nation about the Mosaic project is available from the homepages.	
NCSA Mosai	c Platforms:	
🔹 🔹 NCSA Mos	saic for the X Window System saic for the Apple Macintosh saic for Microsoft Windows	

### Once upon a time there was the web...

# ...and then sites started to want to identify their visitors

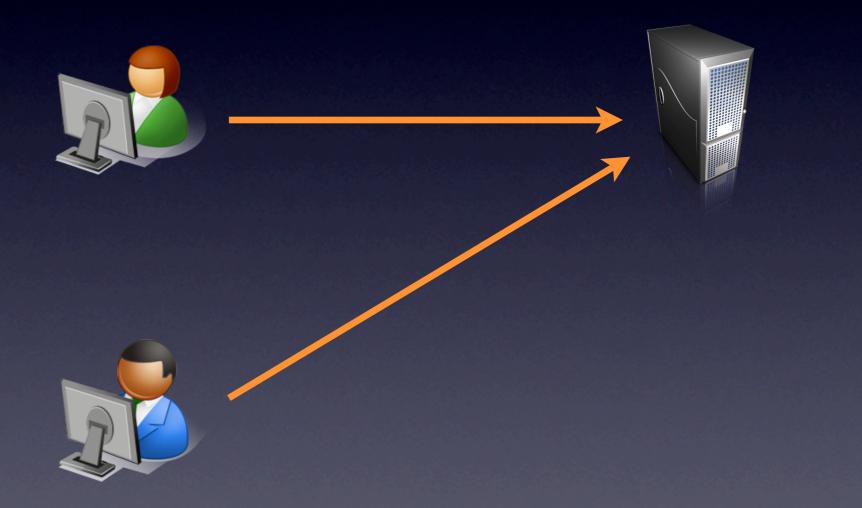
?	Authentication Required A user name and password are being requested by http://mnementh.csi.cam.ac.uk. The site says: "Who are you?"
User Name:	
Password:	
	Cancel OK

<Location /basic> AuthType Basic AuthName "Who are you?" require valid-user </Location>

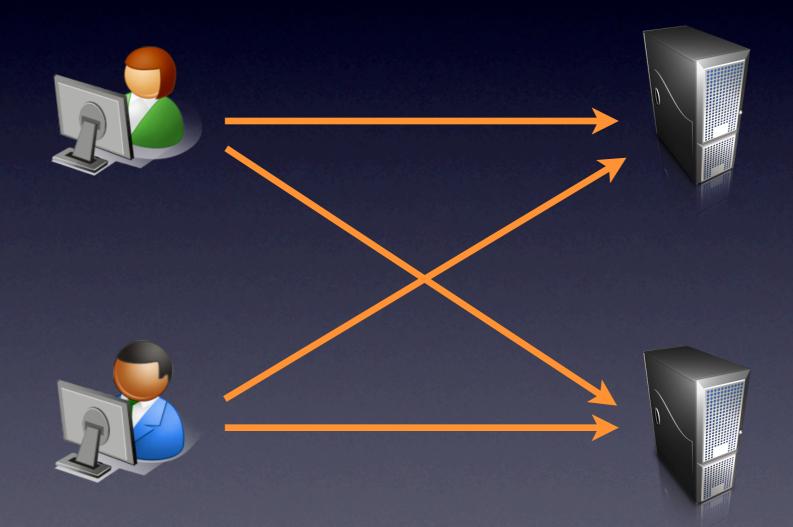
### To each site its own users



### To each site its own users



### To each site its own users



## Organization-wide SSOs

- University of Cambridge Raven
- Oxford WebAuth
- Classic Athens (R.I.P.)
- Google
- etc, etc, ...

University of Oxford Single Sign-On Login				
The service you have requested is accessed via the University of Oxford Single Sign-On system.				
		Username:	e.g. abcd0123	
		Password:	Forgotten password?	
			Login Help	
Please enter your Oxford username and password then click the "Login" button.				
		Not yet acti	vated? [Activate a new account]	
I don't know what to do!				
Oxfo	ord University Com	puter Usage Rules a	nd Etiquette	

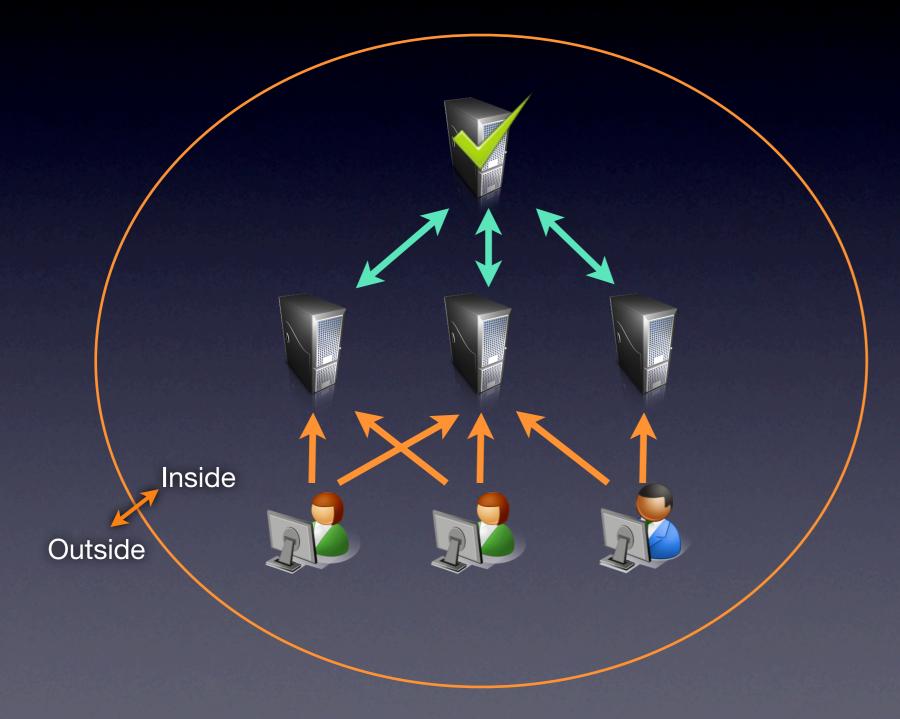
RA

VEN	yourself [help provided by t	burce you requested requires you to b - why am I seeing this?]. This reso he website wiki.csx.cam.ac.uk if you are happy to be identified to	urce is . You should
		User-id: jw35 Password:	
		override login options for this session?	
		Submit Cancel [help]	
	that require auth and only enter it	rr web browser when you have finished acce nentication. Do not disclose your Raven pass on web pages with URLs that start n.cam.ac.uk/. Please report attempts to c	word to anyone

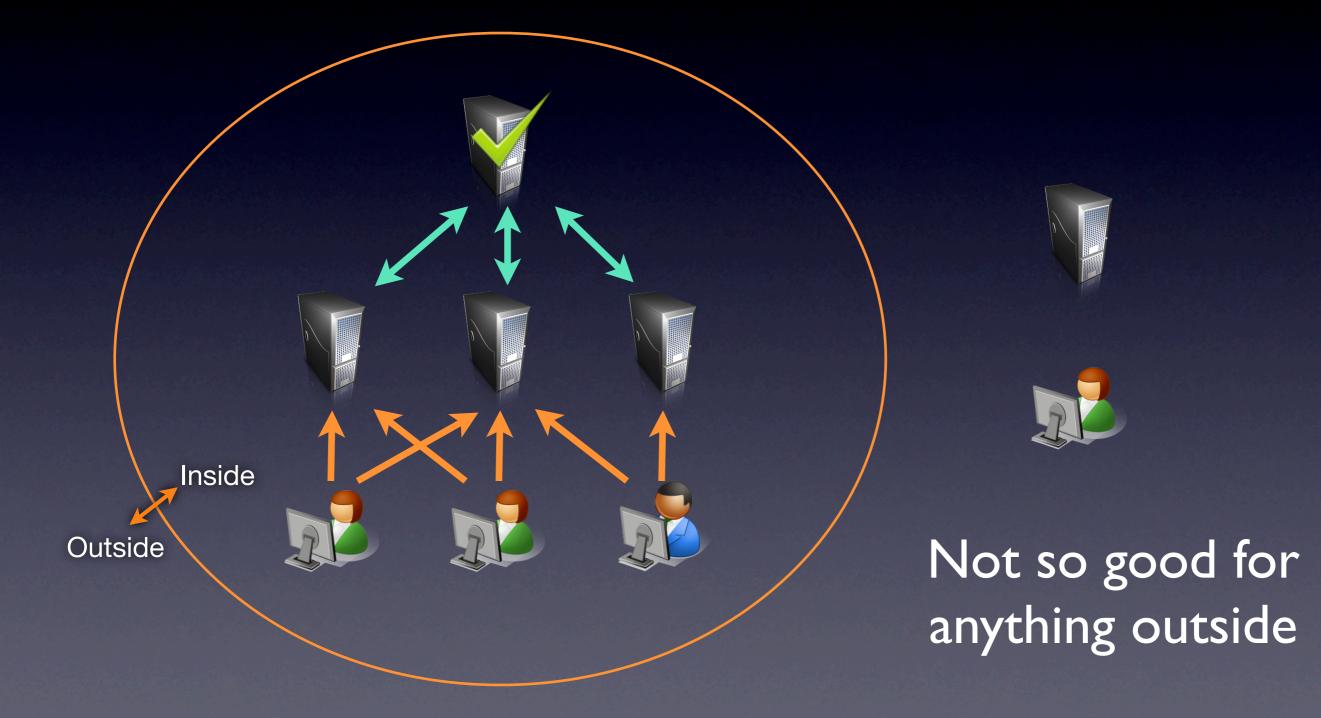
password by other means

Sign in with your Google Account	
Email:	
	e.g. pat@example.com
Password:	
	Stay signed in
	Sign in
Can't	access your account?

### Great for the institution

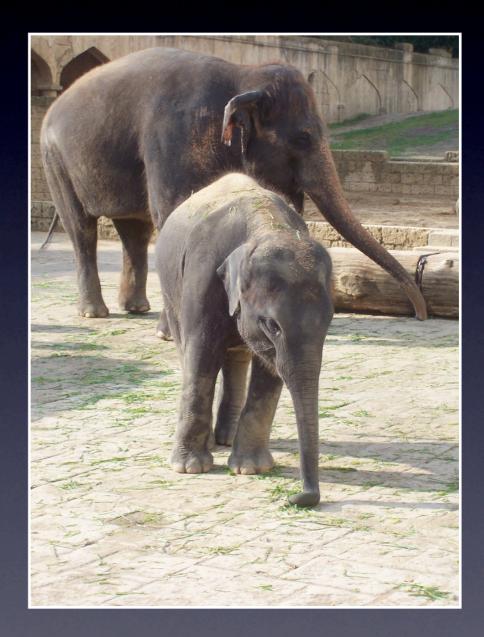


### Great for the institution



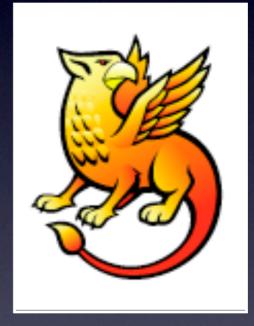
# Two elephants

- Data protection
- Trust



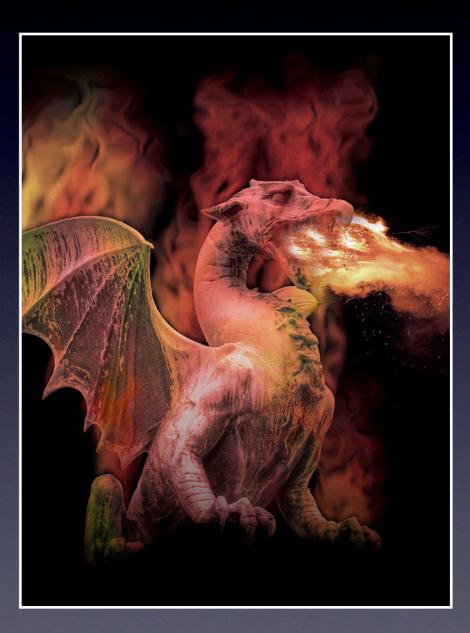
## Enter the Griffin

- AKA Shibboleth
- A Web Auth system designed to support (though not to require)
  - multiple IdPs
  - inter-organization use
  - privacy and anonymity
  - multiple attributes



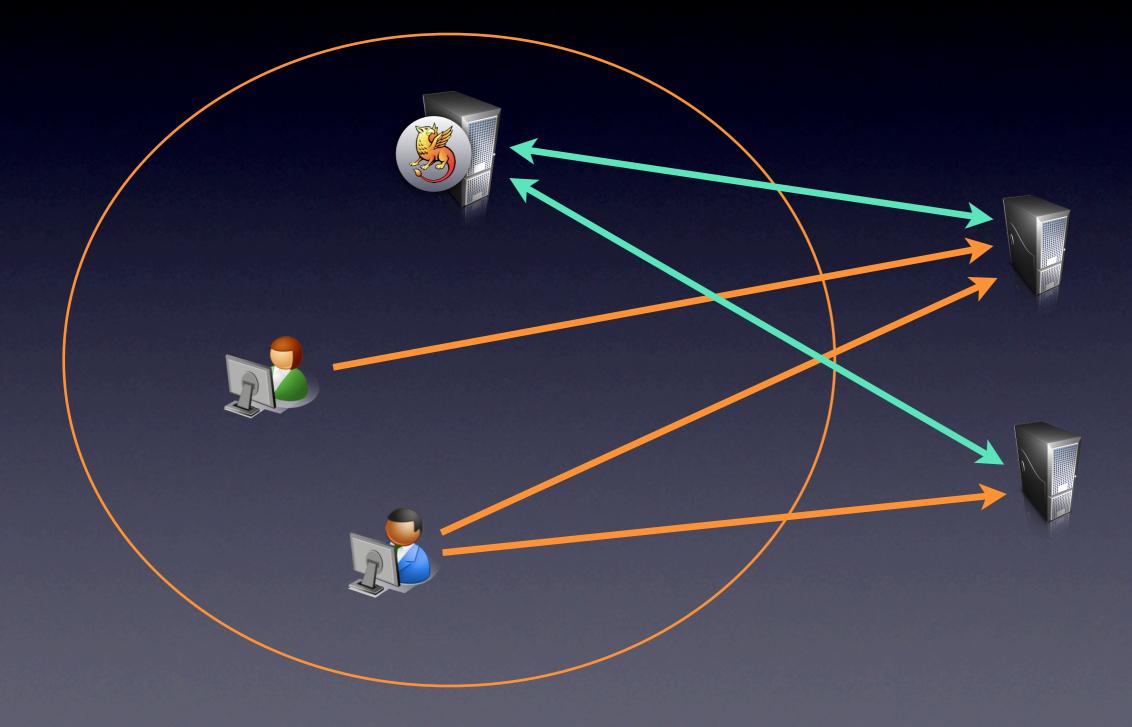
# Myth and Legends

- Shib is only for e-Journals
- Only supports anonymity
- Only supplied by Internet2
- Doesn't do standards
- Is really hard



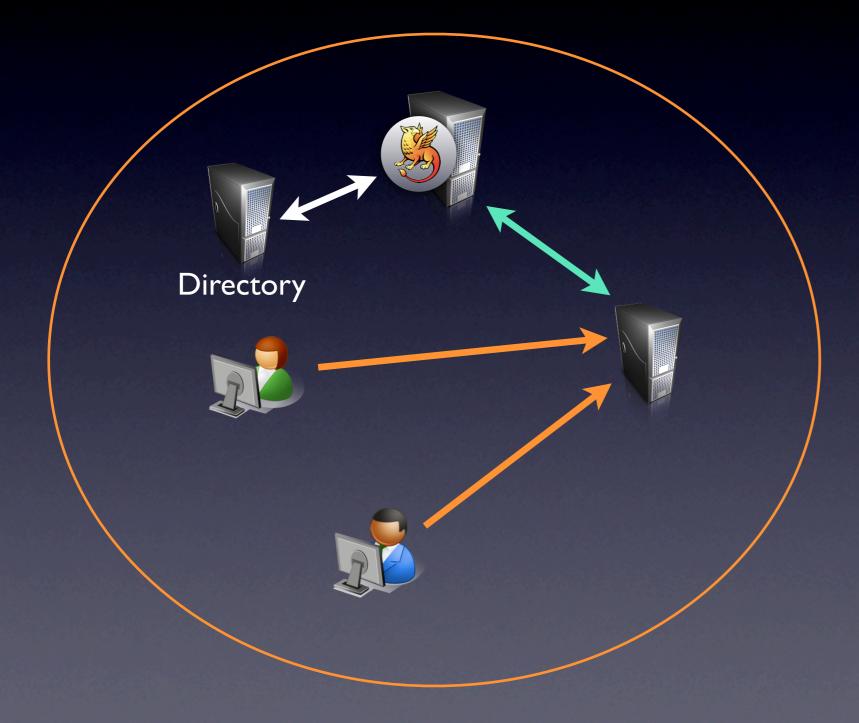
# So, what can we do with it?

# E-Journals

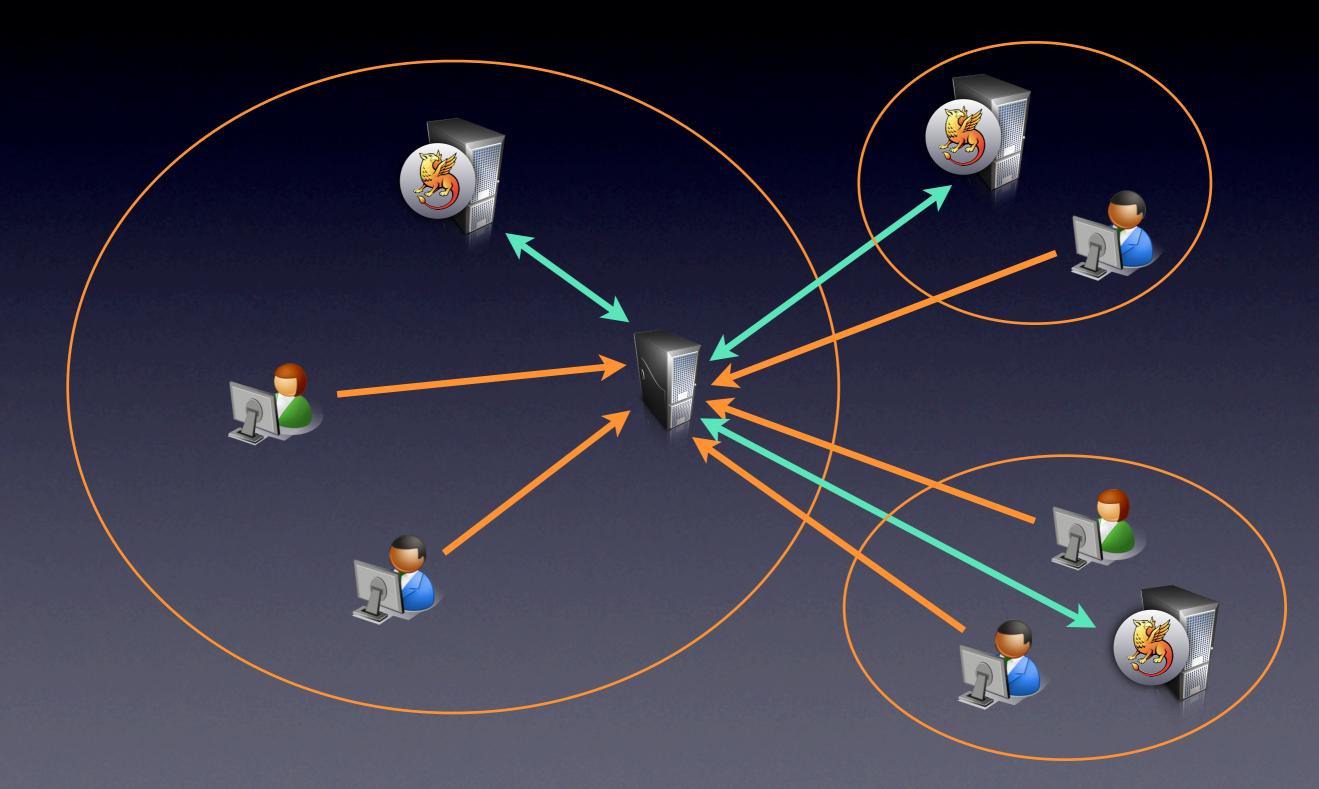


# Standard web server plugins

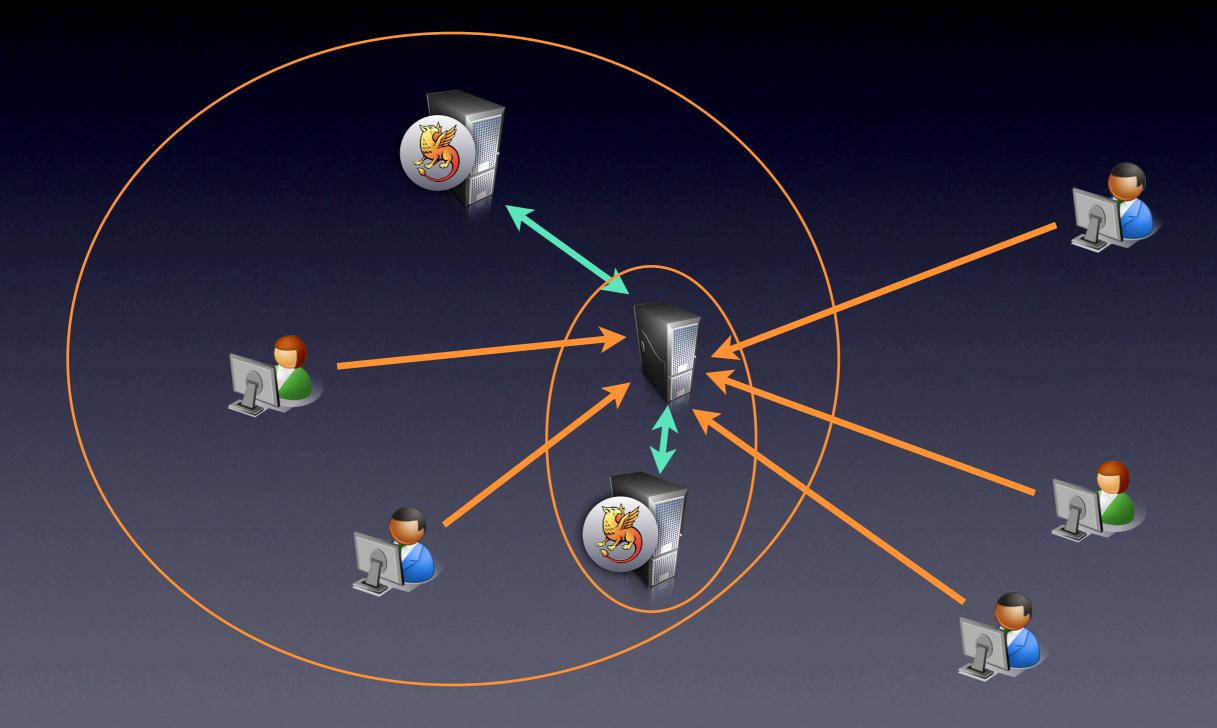
## Authorization decisions



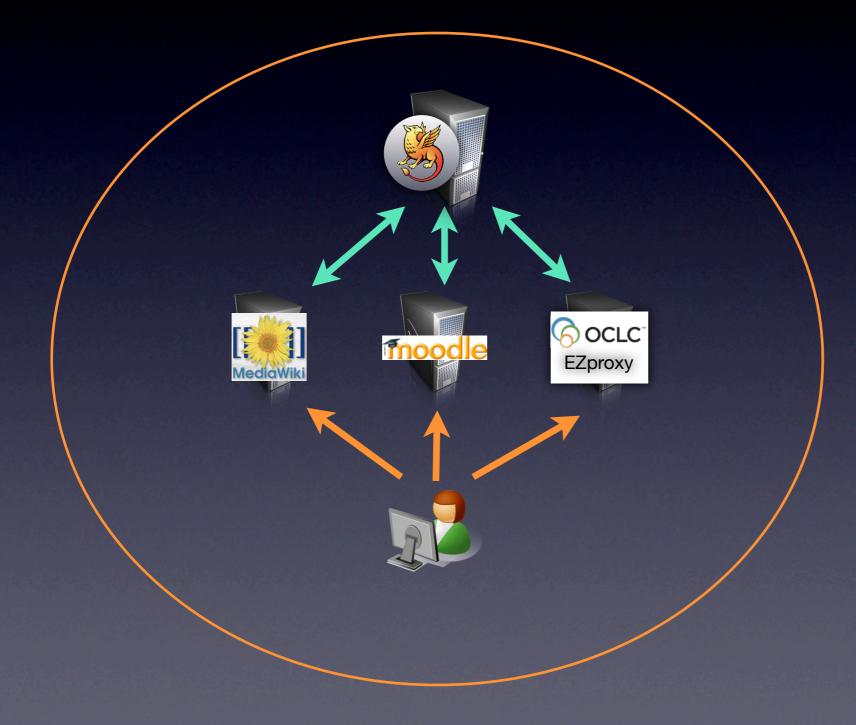
# Other people



# Other people, take 2



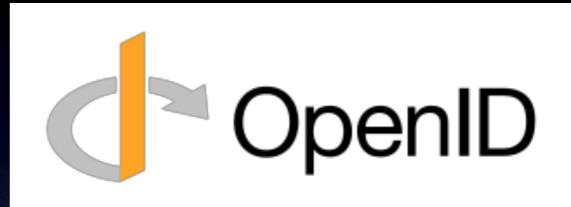
### Existing software



# VHS vs. Betamax



#### Facebook Connect



Sign in with your Google Account	
Email:	
e.g. pat@example.com	
Password:	
Stay signed in	
Sign in	
Can't access your account?	

#### **Google Friends Connect**

## Thanks for listening...

• There may be questions...

...including perhaps '<u>Why "Shibboleth?</u>"



### "On the Internet, nobody knows you are a dog...



"On the Internet, nobody knows you are a dog...

# ...but sites often want to know that you are the same dog as last time"

## Credits

- 'In the Field', Julian Wearne, <u>http://www.flickr.com/photos/ikaink/</u> <u>4184787380</u>
- Mosaic screen shot courtesy of NCSA/University of Illinois <u>http://</u> <u>www.ncsa.illinois.edu/News/Images/</u>
- two elephants, Timo Heuer, <u>http://www.flickr.com/photos/upim/</u> 293676365/
- Fire Breathing Mythical Dragon, Wili Hybird, <u>http://www.flickr.com/</u> photos/walkadog/3484426248/
- "On the Internet", by Peter Steiner, page 61 of July 5, 1993 issue of <u>The New Yorker</u>, (Vol.69 (LXIX) no. 20). Reproduced only for academic discussion, evaluation, and research.
- "Same dog as before": "Tofu, online trust, and spiritual wisdom" from the Pushing Strings" blog by Eve Maler.