

The image features a black background with two white silhouettes of people's heads and shoulders facing each other. In the center, where their heads meet, is a large, bright red question mark. The overall composition is simple and symbolic, representing a question or a point of inquiry.

The Dark Side

Anonymity in Cyber Education

Anonymity

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Anonymity

Book

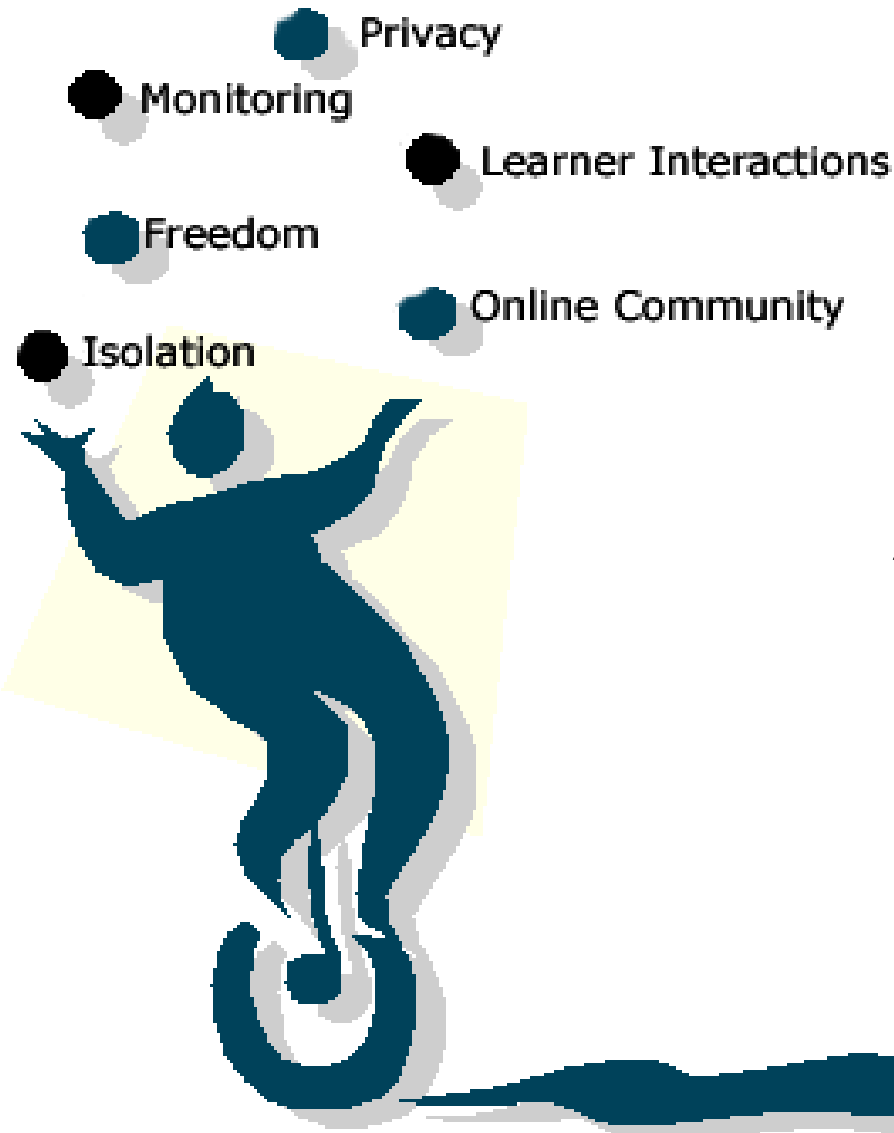
Baggio, B & Belderrain, Y (2009)

Anonymity and Learning in Digitally Mediated Communications: Authenticity and Trust in Cyber Education, IGI Global, Hershey, PA.

Book Chapter

Baggio, B & Belderrain, Y (2007) Implications of anonymity in cyber education. *Understanding Online Instructional Modeling: Theories and Practices*. (Zheng & Sharmila, Eds.) Education, IGI Global, Hershey, PA.

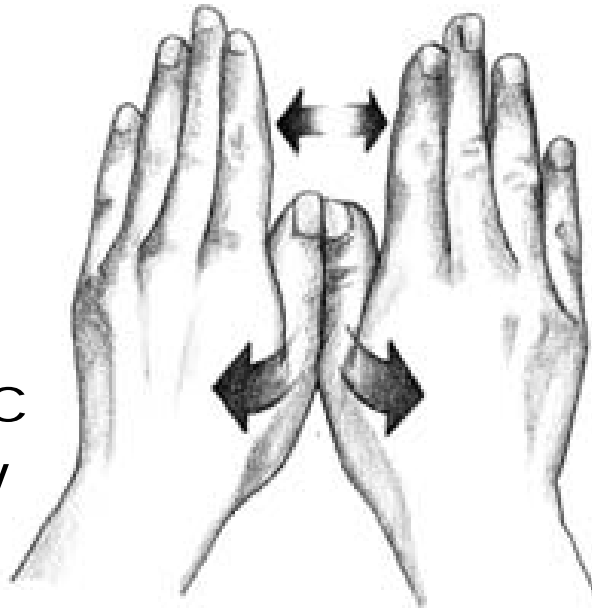
Anonymity



Anonymity in cyber education is a balancing act.

Dichotomy

one
characteristic
of technology



becoming
increasingly
less
evident

Anonymity

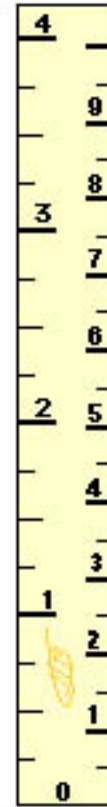
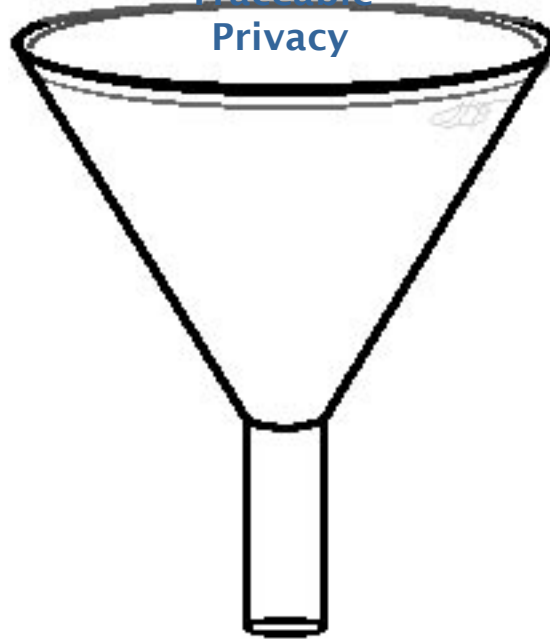
Anonymity

remaining nameless: quality of being unknown or unacknowledged

Anonymity

Internet
Nameless
Individuality
IP Address
Lack of Geography
Authentic Records
Academic Honesty
Traceable
Privacy

Privacy
Anonymity
Identity



Anonymity

Privacy

Anonymity

Identity

Anonymity



Anonymity

Privacy

Information obtained both directly & indirectly can:

fall into wrong hands

unintended purposes

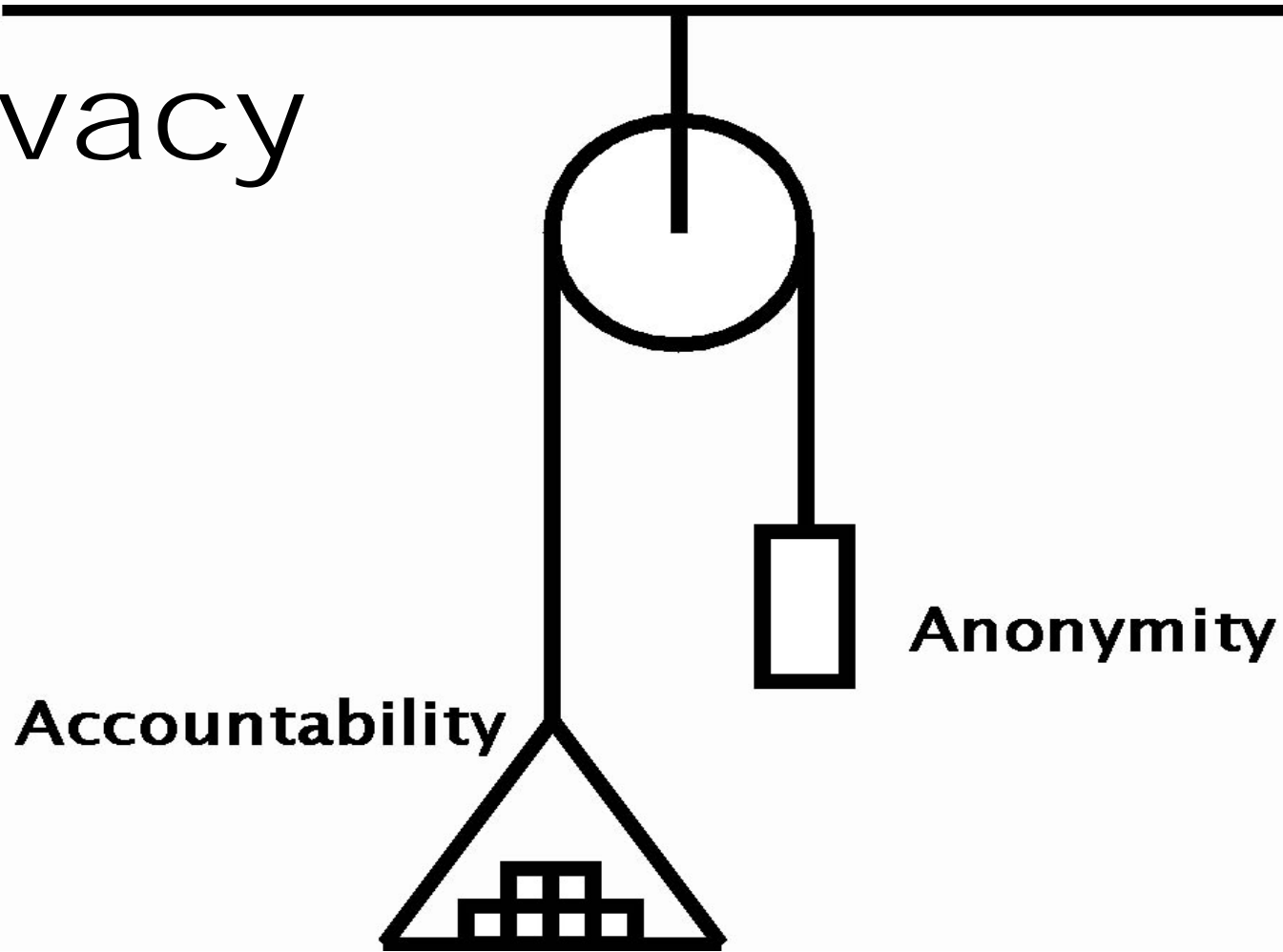
misuse

without consent



Anonymity

Privacy



Anonymity

Name three risks that you feel are associated with current practices in distance education concerning accountability and anonymity.

| | |
|----------------------------------|--|
| Accountability Risk 1 | |
| Accountability Risk 2 | |
| Accountability Risk 3 | |
| Anonymity Risk 1 | |
| Anonymity Risk 2 | |
| Anonymity Risk 3 | |

Anonymity

Privacy



Anonymity

Privacy = Freedom



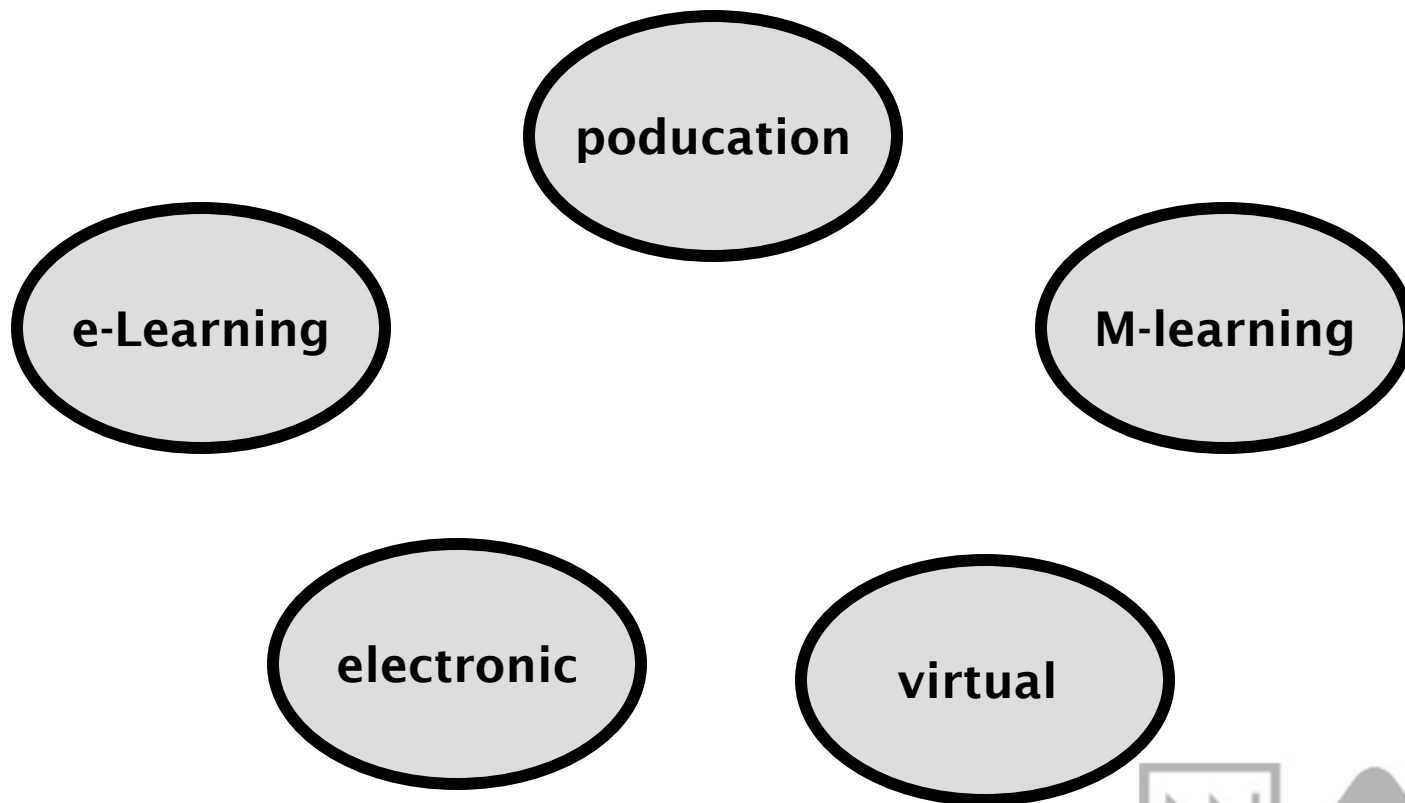
To think
To write
To keep identity unknown
From political
From social
From governmental
Ridicule, retribution &

Consequences

Anonymity

Why Cyber Education?

Ubiquitous Learning



Anonymity

Society values adherence to the law:



Anonymity

10 Rules of Cyber Communications

1. Be human
2. Same behavior online as in real life
3. Know where you are in cyber space
4. Respect other peoples time and bandwidth
5. Look good on line
6. Share expert knowledge
7. Help keep the flame wars under control
8. Respect other people's privacy
9. Don't abuse power
10. Forgive mistakes

Shea, V. (1994). Netiquette. Retrieved June 7, 2005, from <http://www.albion.com/netiquette/corerules.html>



Anonymity

Online discussions & postings

- Safety & concern
- No physical cues
- Retained for extended periods
- Interaction patterns analyzed
- Unpopular
- Uncomfortable

Anonymity



You

You on the net

You on the net
when no one
knows it's you



Identity

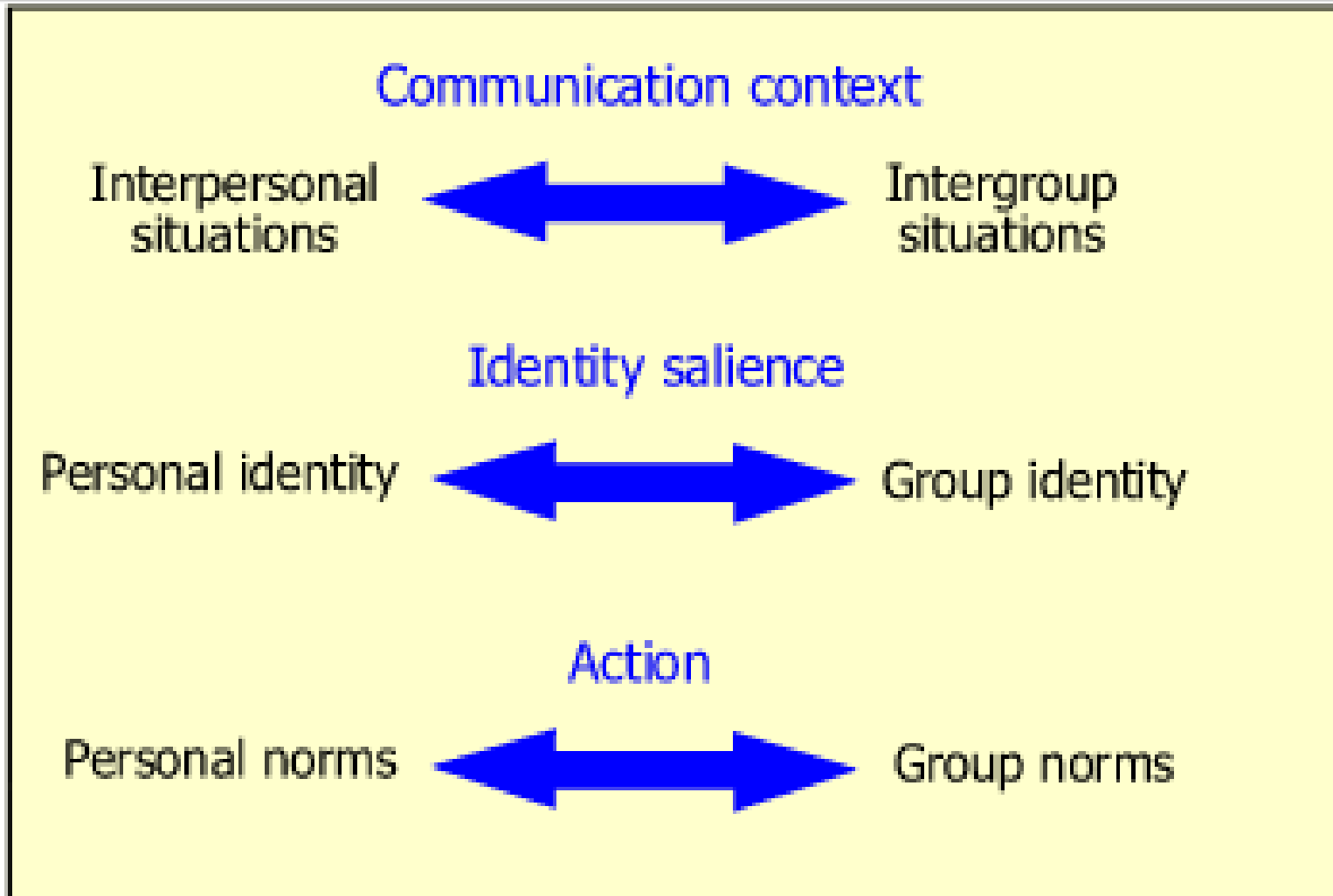
Social Implication of anonymity:

**Minimizing instructor
authority**

New persona

Deindividuation

Anonymity



Scott, C.R. (1999). Communication technology and group communication. In L.R. Frey, D.S. Gouran, & M.S. Poole (Eds.), *The handbook of group communication theory and research* (pp.432-472). Thousand Oaks, CA: Sage.

Anonymity

Have you been directly impacted by:

Cyber cheating ?

Psychological detachment?

Unethical conduct on the Internet?

**Improper behavior by someone in
cyber space?**

**Academic infractions by learners,
teachers or schools?**

**Someone turning another's work in
for credit?**

Anonymity

Best Practices

How do we minimize?

Cheating

Psychological detachment

Unethical conduct

Improper behaviors

Academic infractions

Submitting another's work

Interactivity

“Can be defined as those functions and/or operations made available to the learner to enable them to work with content material presented in a computer based environment (Sims,2000).”

Anonymity

Four Dimensions of Interactions

1. Learners – who

2. Content – what

3. Pedagogy – how

4. Context - when

Sims, R. (2000). An interactive conundrum: Constructs of interactivity and learning theory. *Australian Journal of Educational Technology*, (16), 45-57. Retrieved May 17, 2005, from <http://www.ascilite.org.au/ajet/ajet16/sims.html>

Anonymity

What are the challenges for interactions you have experienced?

| | | | | |
|-------------------------------|--|--|--|--|
| Who Learners | | | | |
| What Content | | | | |
| How Pedagogy | | | | |
| When Context | | | | |

Anonymity



How
secure
is truly
secure ?

Anonymity

Spoofing

Phishing

Footprints

Fingerprints

Data Mining

Spooferd PennKey Login Sites are Hard to Detect

The Real Thing

Unauthorized Site

The leftmost computer address is the real one. That's where you are actually sending your password.

Penn A-Z Request Login

Requests for additions or corrections to the Penn A-Z listings are restricted to Penn faculty and staff. If you are not a Penn faculty or staff member, we require you to log in with your PennKey account. If you are not a Penn faculty or staff member, we require you to log in with your PennKey account.

For your convenience, make sure that your browser accepts cookies originating from the server you are viewing. If you do not have cookies enabled on your browser, you will need to request a PennNet protected page on that server.

- Please enter your [PennKey and PennKey password](#) in the appropriate boxes
- Click on the "Submit" button

PennKey:

PennKey password:

This is the actual site your PennKey and password will go to. Your password could be compromised.

The Penn computer address is not at the far left, so don't be tricked into thinking this is a legitimate Penn site.

Penn A-Z Request Login

Requests for additions or corrections to the Penn A-Z listings are restricted to Penn faculty and staff. If you are not a Penn faculty or staff member, we require you to log in with your PennKey account. If you are not a Penn faculty or staff member, we require you to log in with your PennKey account.

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- Please enter your [PennKey and PennKey password](#) in the appropriate boxes
- Click on the "Submit" button

PennKey:

PennKey password:

- Be wary of official looking-email forged to look like it came from a Penn office, instructing you to click on a link and enter your PennKey & password. Even if the link looks like it will take you to a Penn site, it could actually take you to an unauthorized site.
- Never enter your PennKey and password if you get warning messages about problems with the site security or "site certificate."

Anonymity

Top 10 Ways to Prevent Spoofing

Awareness

Anonymity

Phishing is still an online threat
25,000 attacks reported each month
according to the Anti-Phishing Working Group
www.antiphishing.org

Awareness

| Monitor policies | Computer | Log | Number of events | MonitorMagic service |
|-------------------------------|----------|---------------------------------------|------------------|----------------------|
| Central monitor policies | ATOMIC | Distributed Transaction Coordinator | Running | Automatic |
| Local monitor policies | ATOMIC | DNS Server | Running | Automatic |
| + CPU Performance | ATOMIC | FTP Publishing Service | Running | Automatic |
| + Demo | ATOMIC | IIS Admin Service | Running | Automatic |
| - Exchange 2000 | ATOMIC | Indexing Service | Stopped | Manual |
| + Average Delivery Time | ATOMIC | MSSQLSERVER | Running | Automatic |
| + Exchange Events | ATOMIC | SQLSERVERAGENT | Running | Automatic |
| + Microsoft Exchange Services | ATOMIC | World Wide Web Publishing Service | Running | Automatic |
| + Send Queue Size (mailbox) | Computer | Object-counter-instance specification | Value (text) | MonitorMagic service |

Monitoring & Encryption

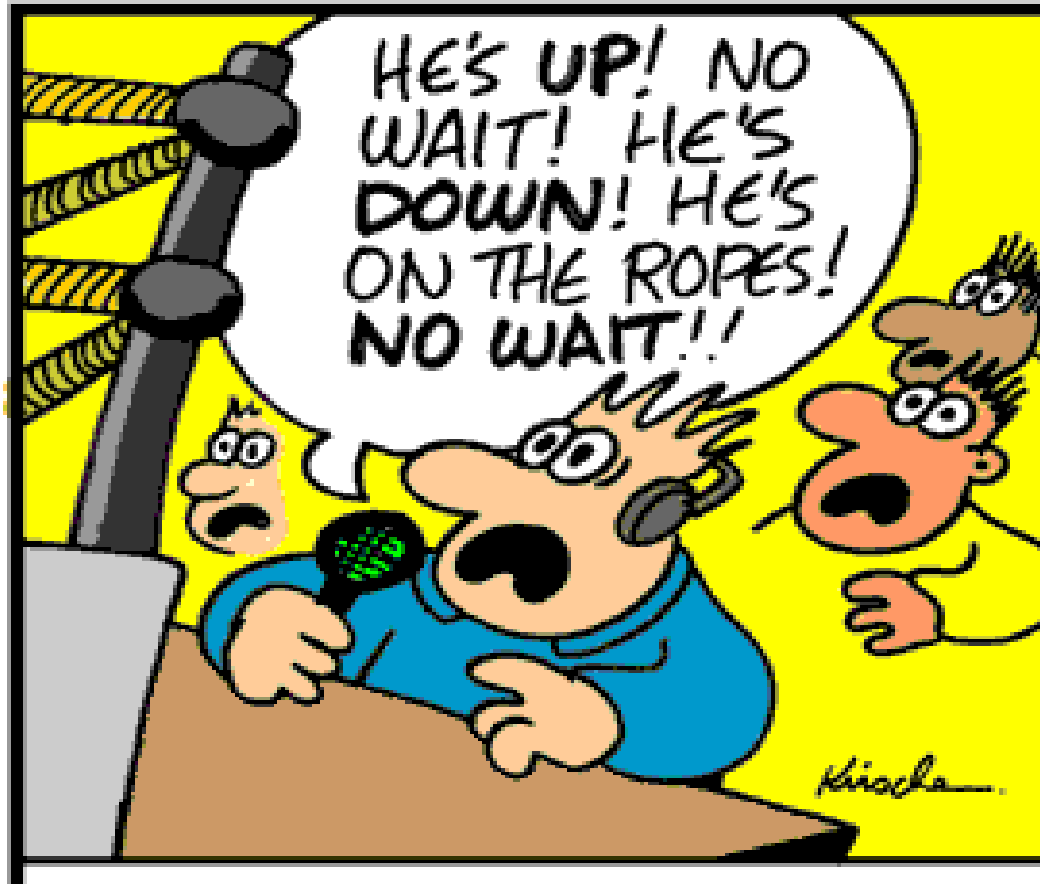
| | | | | |
|-------------------------------------|----------|---|------------|--------|
| Network Services Health | ATOMIC | SQLServer:Cache Manager, Cache Hit Ratio, _Total | 66.230839% | ATOMIC |
| + DHCP | ATOMIC | SQLServer:Cache Manager, Cache Hit Ratio, Procedure Pl... | 66.281545% | ATOMIC |
| + DNS Server | ATOMIC | SQLServer:Cache Manager, Cache Hit Ratio, Prepared Sql | 0.000000% | ATOMIC |
| + RAS | ATOMIC | SQLServer:Cache Manager, Cache Hit Ratio, Adhoc Sql Plans | | |
| + TCP/IP | ATOMIC | Process, Private Bytes, inetinfo | | |
| + WINS | ATOMIC | Active Server Pages, Requests Queued | | |
| + Security - Policy Change | ATOMIC | Active Server Pages, Requests/Sec | | |
| + Security - Service Logon Failures | ATOMIC | Process, Thread Count, inetinfo | | |
| + Security - User Logon Failures | Computer | Log | | |
| - Snmp Examples | ATOMIC | Application | | |
| + Disk usage table | ATOMIC | System | | |
| + Interface Bytes In-Out per sec | | | | |
| + System description | | | | |
| + SQL Server 2000 | | | | |
| + SQL Server 7.0 | | | | |
| + Windows2000 Terminal Services | | | | |

| Rule name | Acknowledged | Rule description |
|--------------------------|--------------|--|
| IIS Security Event Error | No | This rule is triggered when IIS writes |
| RAS Event Error | No | This rule is triggered when a RAS e |
| TCP/IP Event Error | No | This rule is triggered when a TCP/IP |
| WINS Event Error | No | This rule is triggered when a WINS |

Network

- Network
 - Windows XP/2000/NT domains
 - CONTINENTS
 - GUIDOTHYS
 - PLANES
 - SEASONS
 - SKIBRANDS
 - SSP
 - MARS
 - ORANGE
 - T4E-IP
 - W2K_SKIS
 - Active Directory

Anonymity



FERPA
VS.
PATRIOT
Act

Ringside at the “Protecting the Rights of Individuals” fight

Anonymity

FERPA vs. PATRIOT Act

PATRIOT Act

Providing Appropriate Tools Required to Intercept and Obstruct Terrorism Act of 2001

- Limited academic freedom**
- Limited diversity of perspective**
- Compounded by digital information**
- Profiling**
- Warns off academic freedom**



FERPA vs. PATRIOT Act

FERPA

**Family Educational Rights and
Privacy Act of 1974**

- ❑ Student academic records released only with pursuit of/or court subpoena

Anonymity

Gonzago vs. Doe

(ACLU, 2002)

No release of student records = Loss of federal

\$ \$ \$ \$ \$ \$ \$ \$ \$ \$

Anonymity

- Do you know teachers or professors that have had problems with intellectual property rights?**
- Does your institution have an Internet use policy?**
- Does your organization or institution have a secure intranet?**
- Do you believe all your information is safe and secure?**

Anonymity

Litigation vs. Academic Freedom

**Intellectual Property
Rights**

Internet Use Policy

**Transmission Over
Networks**



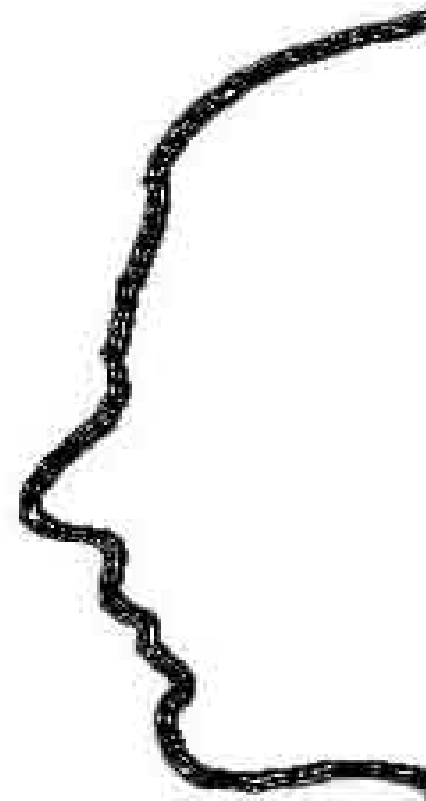
Anonymity



Deindividuation

Anonymity

Profiling
is
legitimate
business !



Anonymity

U.S. vs. European: Policy on Internet Anonymity



U.S.=
hands off & self-regulation

Europe =
laws and regulations

Anonymity

Who is right



Anonymity

What are the issues you feel are important for cyber education & why are they a concern?

| Issue | Importance |
|-------|------------|
| | |
| | |
| | |
| | |

Anonymity

- Do you believe that anonymity is a topic that should be left up to private enterprise to self-regulate ?
- Do you believe that your country has an effective & comprehensive policy to handle the issues concerning Internet anonymity?
- Are we globally doing enough?

Anonymity

Anonymity affects everyone



Anonymity

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