

Who Controls the Past  
Controls the Future

Who Controls the Present  
Controls the Past

Nothing gives rest but the  
sincere search for truth.

-Pascal



*Greetz*

from Room 101

Kenneth Geers

# 1984

# *Nineteen Eighty-Four* (Orwell)

# Govt IW vs own populace

# Ministry of Truth, Thought Police

# Two-way telescreens

# Room 101

# Can Big Brother reprogram Winston?

# 2007

# The Internet is life

# Goodbye traditional media

# Unpredictable nature of the Net

# Weaponization of the Net

# Government repression &  
legitimate criminal pursuit

# *Greetz 101 Palace Strategy*

# Rule #1: Never trust the Internet

# Must shrink the info space

# Family-centric calendar (T-stan)

# DDoS the news (K-stan)

# Good reasons for censorship

# Criminal, cultural, religious

# Political adversaries

# *Greetz 101 Tactics*

# **Goal #1:** the delivery of unaltered messages to your citizens

# (And denial of the same to your rivals)

# The Internet can help

# Surveillance/manipulation

# State-owned telecoms

# Cyber S.W.A.T.

# Read, delete, modify data packets

# By IP, domain, strings, etc

# Call law enforcement when necessary

# Plausible deniability in Cyberspace

# International politics? Human rights? Buehler?

# Which Internet?

# The **Eastern Albanian** Internet

# Few international sites

# Heavily regulated local sites

# Some gvts open, proud of censorship

# Better than silence

# Secrecy may imply impropriety

# Practical Challenges

# Filtering Net traffic is not easy

# Networks are complex, dynamic

# Change control a nightmare

# No network is air-tight

# Sophisticated users

# Hostile network operations

# Denial of Sin (DoS)

# Sex words make great keywords

# Pornography easier than politics

# Blacklists should be double-checked by real people

# Marinated chicken **breasts**

# Middle**sex** County

# How to poison a webserver

# Programming & Politics

# Challenge for AI: words in context

# Was that constructive criticism?

# Humour, irony, sarcasm, satire?

# SME required

# History, language, culture

# Impossible in Internet era

# Esp for one-man show: NK, T-stan

# The Despot's Challenge

# Over/under-blocking

# Blacklisting

#String matching: "royal family"  
and "corrupt"

#Should be 2-stage system

# Whitelisting

#Deny anything not explicitly allowed

# The Human Factor

# Influence user behaviour

# Intimidation = self-censorship

# Security personnel

# Traditional skills inadequate

# Recruits need skillz

# The Connectivity Commandments

- I. Accounts must be officially registered
- II. All activity must be directly attributable to an account
- III. Users may not share or sell connections
- IV. Users may not encrypt communications

# The Executable File

# Open source vs corporate

# Manual conf vs point-and-click

# Hardware & software

# .mm .by .zw .cu bought from .cn

# The Corporate Connection

# Collaboration or conspiracy?

# Target of privacy advocates

# Industry "politically neutral"

# Customization is key

# Exotic locales, languages

# Default categories:

pornography, gambling

# How do you advertise censorship?

# DansGuardian



# Free Net surveillance

# "Unobstructive" to "draconian"

# Filter by URL/IP/domain/user/  
content/file/extension/POST

# PICS, MIME, RE, https, adverts,  
compressed HTML, algorithm

# Phrase-weighting, whitelist,  
stealth modes

# Chance, Fate or TCP/IP?

# Router-based control

# Blacklist IPs, etc

# DNS hijacking

# Owning the dictionary

# Modified Mirrors

# Altering adversary websites

# Cyber sting operations

# Not now, Darling, we have company..

# The Most Repressive Governments in Cyberspace

# The **Top Ten** calculus

# Reporters Without Borders

# OpenNet Initiative

# Electronic Frontier Foundation

# ITU Digital Access Index

# Freedom House

# Current events

# Donuts and coffee



# Reporters Sans Frontières

**REPORTERS  
WITHOUT BORDERS**  
FOR PRESS FREEDOM

## World Press Freedom Index 2006 - The rankings

|    |                |     |                    |
|----|----------------|-----|--------------------|
| 1  | Finland        |     | 0,50               |
| -  | Iceland        |     | 0,50               |
| -  | Ireland        |     | 0,50               |
| -  | Netherlands    |     | 0,50               |
| 5  | Czech Republic |     | 0,75               |
| 6  | Estonia        |     |                    |
| -  | Norway         | 159 | Nepal 73,50        |
| 8  | Slovakia       | 160 | Ethiopia 75,00     |
| -  | Switzerland    | 161 | Saudi Arabia 76,00 |
| 10 | Hungary        | 162 | Iran 90,88         |
|    |                | 163 | China 94,00        |
|    |                | 164 | Burma 94,75        |
|    |                | 165 | Cuba 95,00         |
|    |                | 166 | Eritrea 97,50      |
|    |                | 167 | Turkmenistan 98,50 |
|    |                | 168 | North Korea 109,00 |



#10 Zimbabwe



# Cyber Tasking

# Oct 20, 2006: Pres Mugabe to Central Intelligence Organisation (CIO)

1. Infiltrate ISPs

2. Monitor private communications

3. Flush out Internet journalists

# Police as café attendants, surfers

# Find those posting negative info

# "...some computer training first"

# Guarding the Gateway

# Monopoly sought for pro-gov Tel\*One

# All traffic, all profits

# Interception of Communications Bill

# Signif HW/SW expenses for ISPs

# No court challenges

# Threatened to shut down

# Monitoring system bought from China

# .zw Defacement



**Ministry of  
Health**

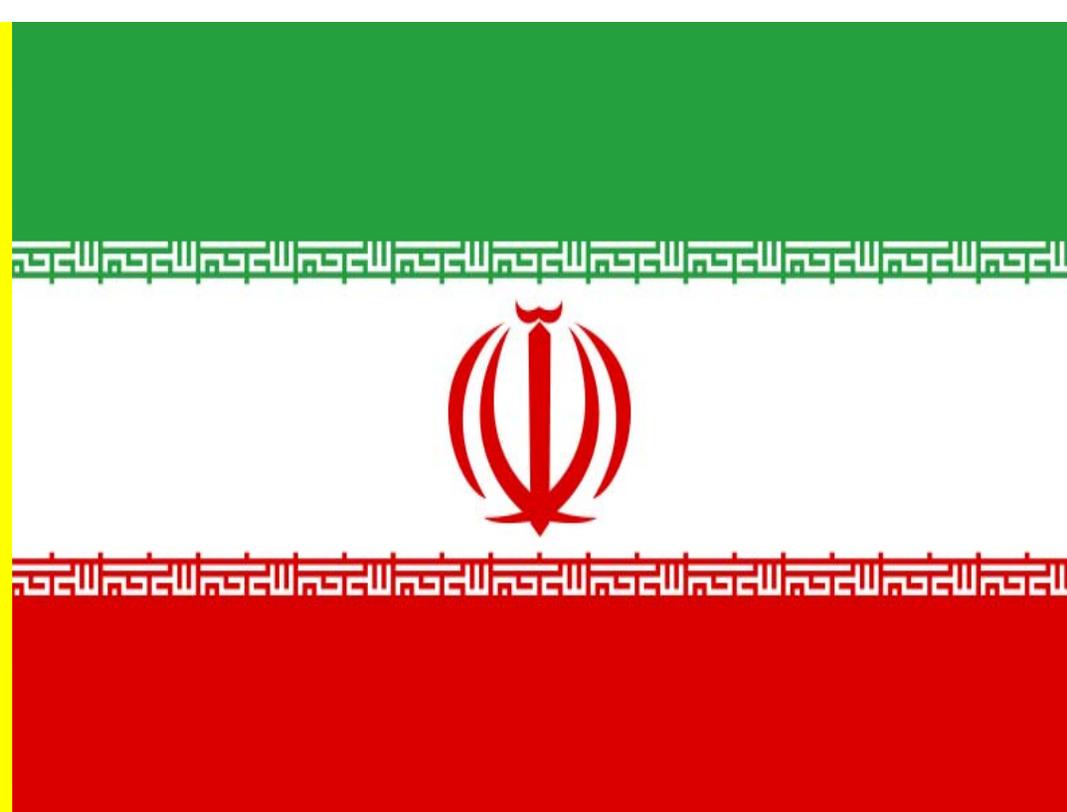
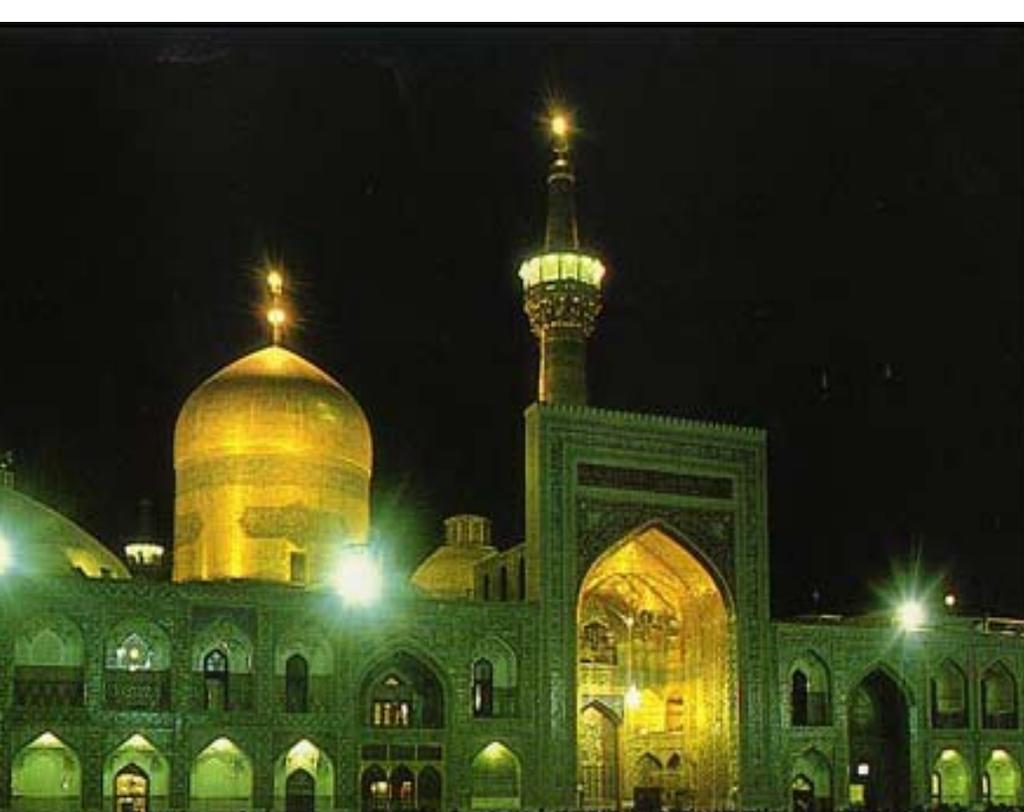


**and Child  
Welfare**

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**Command Tribulation Ownz your b0x**

**Jesus loves you**



**#9 Iran**



# Selective Surveillance

# Phenomenal growth

# 2001 (1M), 2007 (5M), 2009 (25M)

# Mature network monitoring, but laws not routinely enforced

# Sites, not user behavior, blocked

# Muslim values emphasized

# ± 1/3 websites blocked: porn, anonymizers, politics

# More likely blocked if in Farsi

# A Blogger's War

#No "immoral" reporting, anon pubs

#Web still "most trusted" news

#Forums can be openly critical

#Net savvy: Mirroring, blacklist  
posting, RSS

# Blogging huge, even by government

#Accused CIA of authoring blogs

#Death threat against IR blogger

# The President's Blog

<http://www.ahmadinejad.ir/>



[فارسی] [English] [العربية] [French]

In your viewpoint, is it just as the present structure of the United Nation; only some powerful countries and the winners of the Second World War, have the right ?to veto Yes

**Message to the American People** 2006/11/28

In the name of God, the Compassionate, the Merciful O, Almighty God, bestow upon humanity the perfect human being promised to all by You, and make us among his followers. Noble Americans, Were we not faced with the activities of the US administration in this part of the world and the negative ramifications of those activities on the daily lives of our peoples, coupled

Cur...@gmail.com Fred Thornton 

Great site, Thank you very much Dr. Ahmadinejad for standing up for the truth and for standing up to evil and as a white male in the U.S. I give my full to you your country and i send .you many blessings

art...@onetel.com julie harrison 

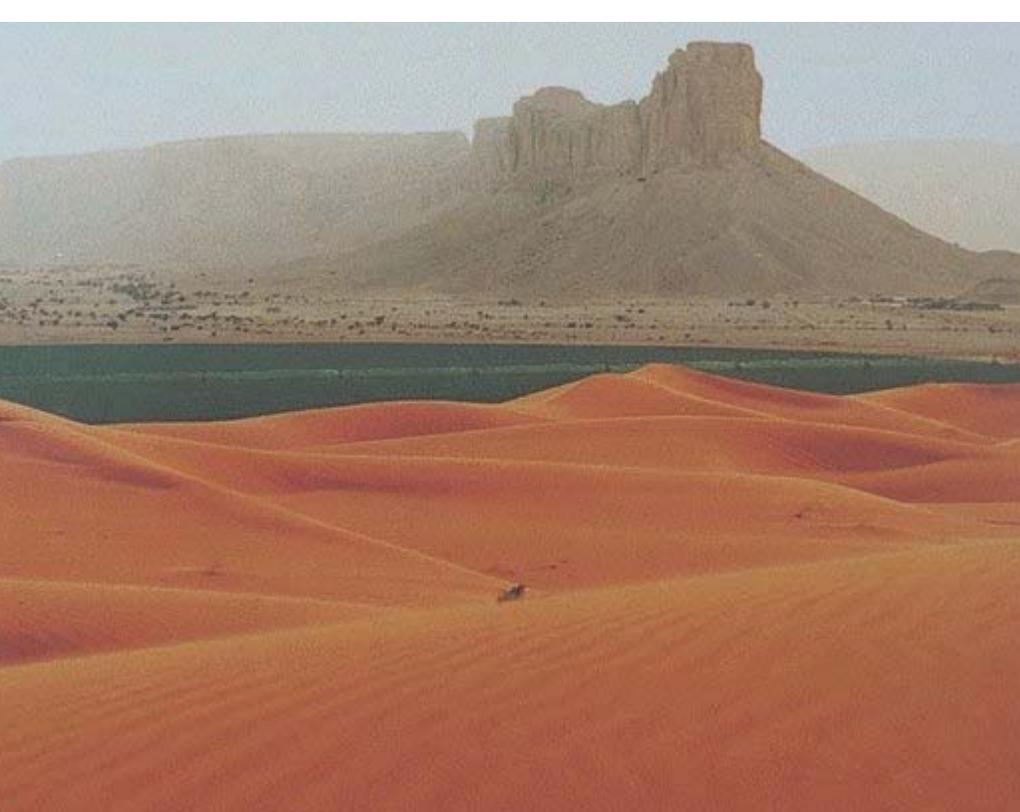
Dear Dr. Ahmadinejad, Thank you for sharing your thoughts with us. I am English and have a very different way of life from yours, of course. Even though I do not observe any religion

# .ir Defacement



**NE MUTLU TURK'UM DiYENE ..!!**

آند اولسون سارسيلماز بيرليک عشقينه آتاي داغلاريندا بوزقورد سسینه



#8  
Saudi Arabia



# A Moral Internet

# King A.A. City for Sci & Tech

# National-level proxy

# Eliminate net's "negative aspects"

# Caching, blacklisting, triage

# Pop-ups: "disallowed", "logged"

# Encryption forbidden

# ISPs must conform to Muslim values, traditions, and culture

# Technology vs Bureaucracy

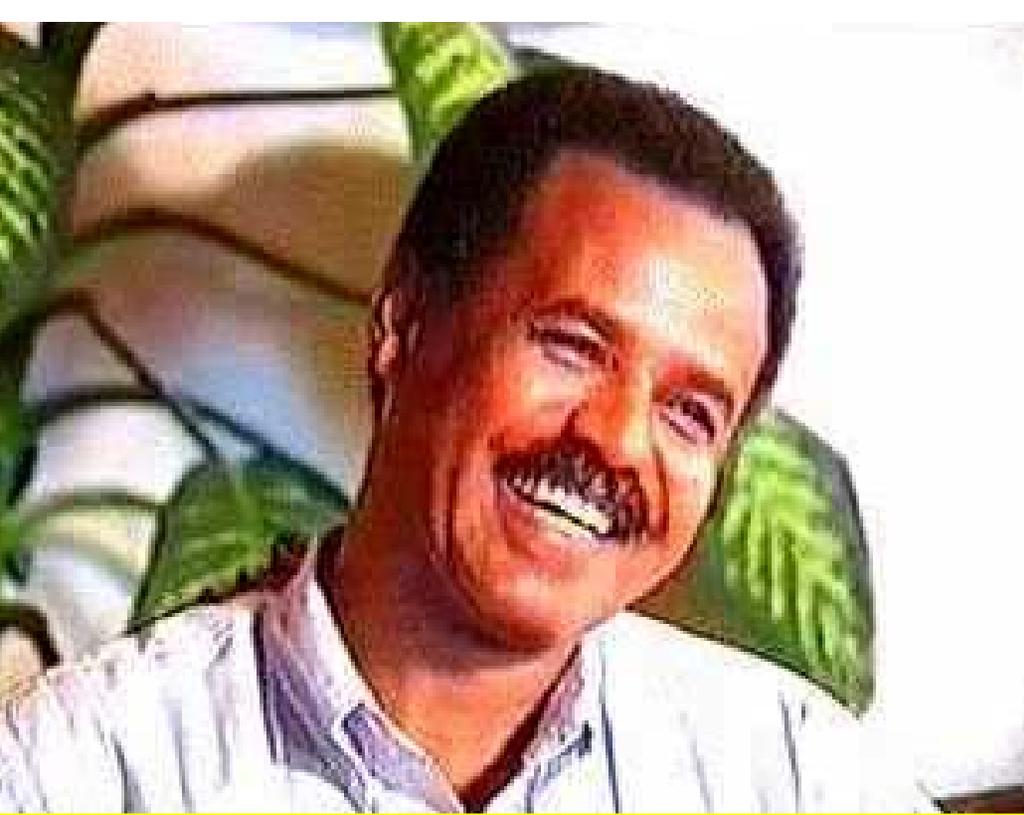
- # Censor mix: morality and politics
  - # Porn, "unofficial" histories
  - # Blacklist removal (and add) forms
- # Politically-focussed blocking
  - # Cat-and-mouse game with MIRA
- # SA GVT: hard to keep up
  - # Highly educated citizenry
  - # Direct connect to foreign ISPs

# .sa Defacement



We are : Mianwalian , PakBrain ,saudia\_hacker

Shoutz to : net^DeViL, PRI[ll, all staff on irc.gigachat.net



#7 Eritrea



# Last Online

# Tradition of clandestine radio

# 1 transmitter = 3 anti-ER stns

# Disinformation now online

# Telecom Service of Eritrea (TSE)

# NOV 2000: 512 kps to 4 ISPs

# Opposition sites init accessible

# Few wealthy enough to own computer

# ISPs typically walk-in

# First Offline

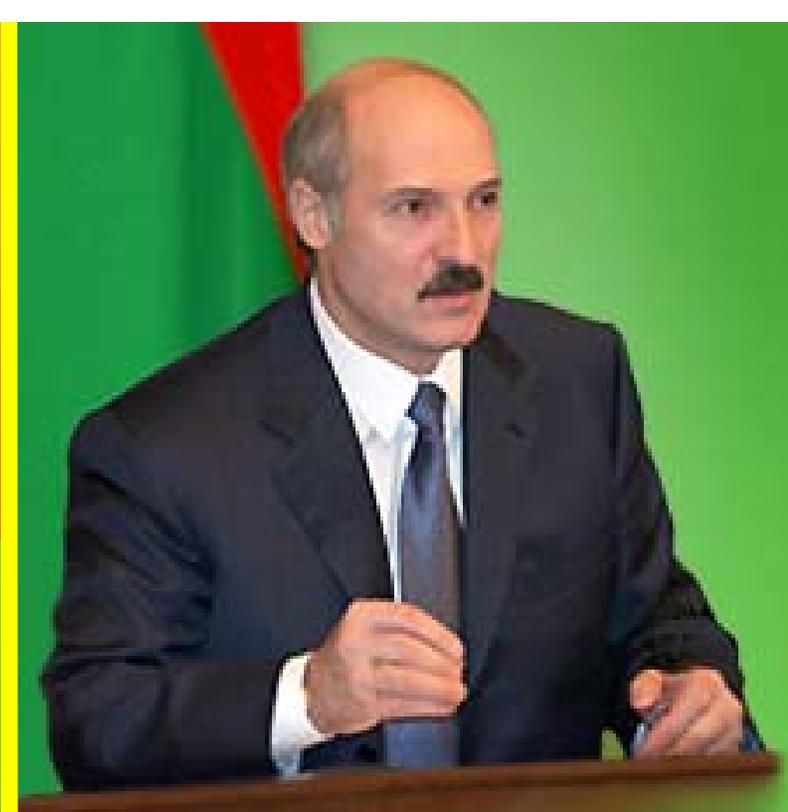
# 2001: human rights downhill

# No reporters, no NGOs

# 2004: cyber cafes moved to  
"educational and research" centres

# Pornography cited; diplomats  
skeptical

# Politics discussed *outside* Eritrea



# #6 Belarus



# Ah, The Good Old Days

- # President controls print, radio, TV
- # State Ctr for Info Security (GCBI)
  - # Owns TLD (∴ DNS, website access)
- # Beltelecom: state-owned monopoly
  - # "Persecution by permit"
- # Crime: defaming "dignity" of leaders
- # 2001, 2003, 2004, 2005: DoS of websites critical of President
- # 2006: "flash-mob" arrested

# Cyber Showdown

# 3/19/2006: Election Day

# 37 opposition/media sites down

# Pres challenger site "dead"

# DNS errors reported

# 3/25/2006: demonstrators arrested

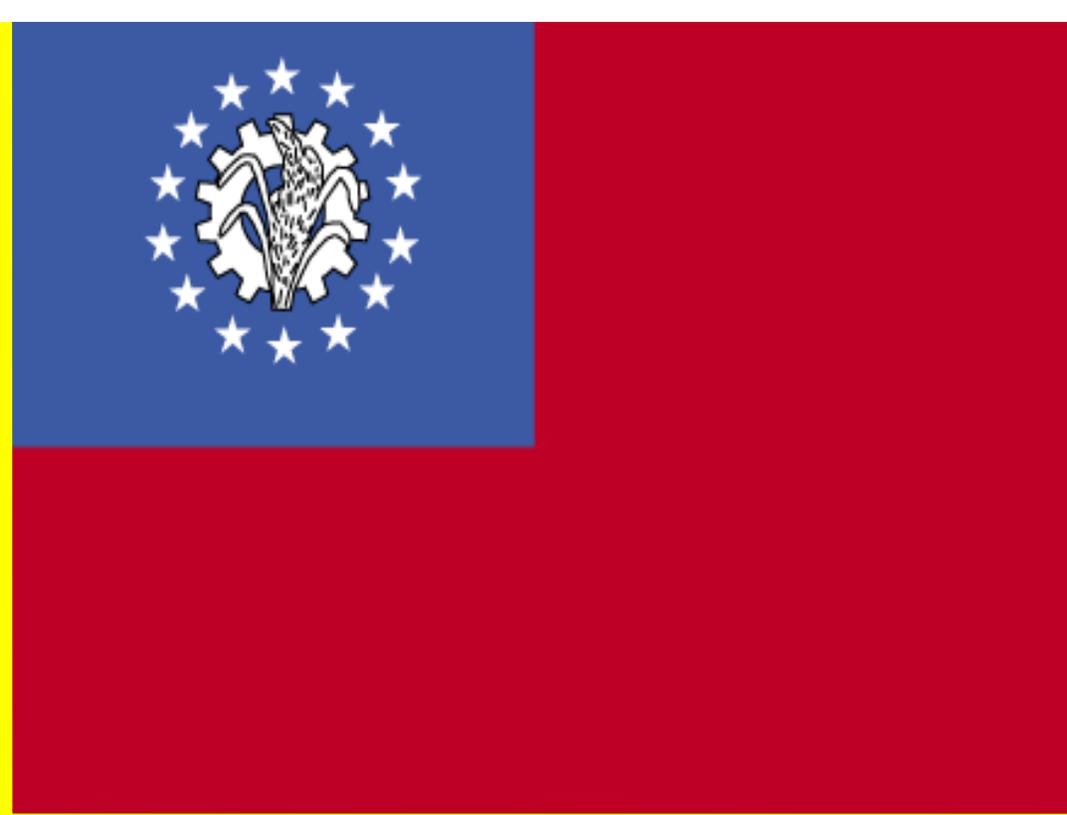
# Internet inaccessible from Minsk

# Not comprehensive, but selective

# Pres Lukashenka won by wide margin

# .by Defacement





**#5 Burma**

# Illegal: Incorrect Ideas

# Net penetration  $\pm$  0.6%

# "Myanmar Internet", state email

# No politics, webmail, anon, porn

# Anonymity impossible?

# Cyber cafés: name, address, ID

# Frequent screenshots

# **Prison:** unreg computers, shared accounts, "incorrect ideas/opinions", "criticism"

# Resistance is Futile

# Very little room for manoeuvre

# Online activism (abroad) since 1996

# International pressure

# Shareholder threats, business  
boycotts, nation-state sanctions

# Data filtering provider

# Denied knowledge of SW sale

# WWW: PM & Sales Dir closing deal

# .mm Defacement



# #4 Cuba



# No Private Connections

# Highly educated, but < 2% online

# GVT owns nearly all computers

# Cyber café: 1 hour = ½ monthly wage

# Cannot violate "moral principles"

# Illegal connection = 5 yrs,  
counter-revolutionary post = 20 yrs

# Msg w/ dissident names crashed cmptr

# Pop-up: "state security reasons"

# Cyber Black Market

# Connection-code, HW trafficking

# ±30 dollars/month

# Students expelled

# Video posted of officials  
announcing punishment

# Connections borrowed from expats

# Police have threatened expulsion

# Journalist hunger strike

# .cu Defacement



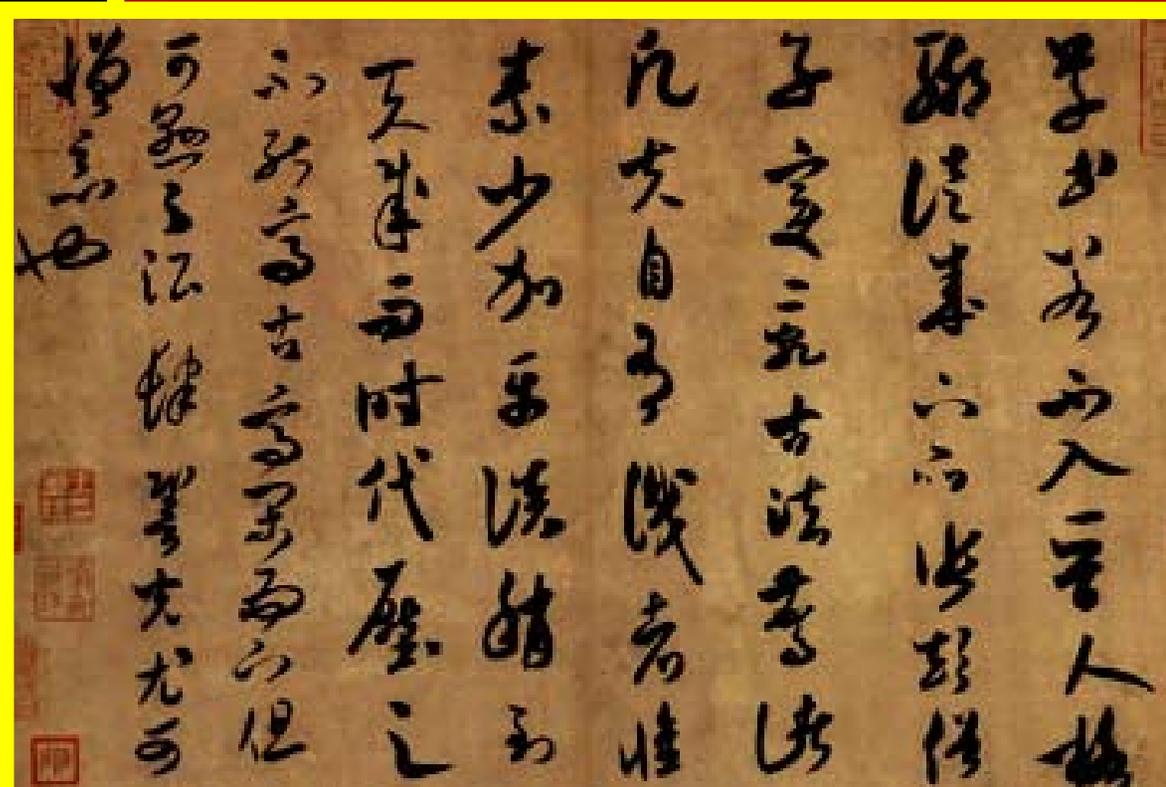
**[[ hacked by uykusuz001 ]]**

**WAR!!FOREVER WORLD PEACE!!...AND**

**.. !! .. ONE TURK .. AGAINST THE WORLD .. !!!**

**...AND JUSTICE FOR ALL**

# #3 China



# Mao on the Moon

#World's most sophisticated Net surveillance

#Ubiquitous, mature, dynamic, precise, effective

#Army of public/private personnel

#Cybercafés keep logs 60 days

#Massive legal support for GVT

#Individual privacy laws?

# The Great Firewall

# **Removed:** Taiwan, Tibet, Falun Gong, Dalai Lama, Tiananmen Square

# By keyword at national gateway

# Missing URLs w/in TLDs

# **Edited:** blog entries

# JAN07, renewed "purification" of Net

# "Development of socialist culture"

# No new cyber cafes this year

# .cn Defacement



*The Chinese hackers advocate the freedom*

*We merely make the safe examination*

*Invades the Personnel*

*江南劍书生, FruNyIsE, Shnog , LnSang, HnBin ,Ploiy, XoKu*



#2

Turkmenistan



# Father of All

# Turkmenbashi personality cult

# All media: praise to Niyazov

# Almost NO Net access

# None from home, no cyber cafés

# A \*few\* approved websites

# 2002: 8,000 Net users (pop. 5 M)

# IT certs: 58 in 2001 (last in FSU)

# "President-for-Life" Gone

# New ruler election promise:

# Unrestricted Internet access

# 2 cybercafés opened 2/16/2007

# Soviet Central Telegraph bldg

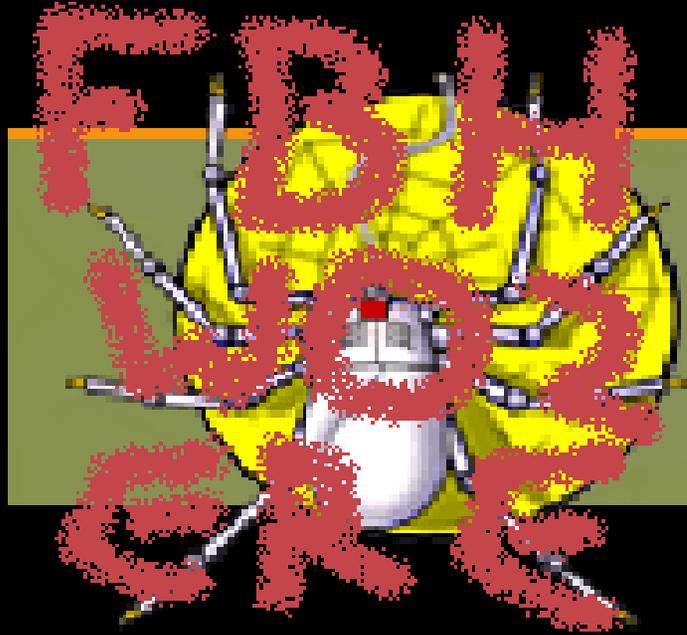
# Admin announced no censorship

# Grand Opening: no reg required

# But nobody showed...

# Bright side: Turkmen are gamers!

# .tm Defacement



spider.tm defaced



#1

North Korea



# The Real 1984

# World's most isolated country

# Perceived Net threat extreme

# State media only, cmptrs *unavailable*

# Kim Jong-il fascinated with IT Rev

# 2000: gave M. Albright email addr

# Only top leaders w/ free access

# Top grads from KIS Mil Academy:

elite, **state-sponsored hacker unit**

# Greetings, Earthlings!

# K Computer Centre

# Int'l pipe, IT hub

# R&D, tight ACL

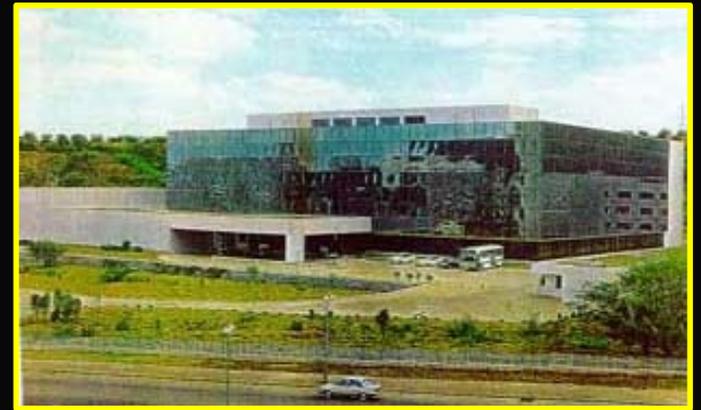
# Kumsong school

# 100 male students/year

# English, programming

# IM, no games, no Internet

# Spain-based portal: official sites



# The Future of Cyber Control

1. National security perceptions
2. Market forces
3. Big Brother helps Little Brother

China => Zimbabwe

# GVT Objectives

## # Realistic goal

# Stop ordinary users from  
blatant attacks

## # Unrealistic goal

# Stop clever users from  
sophisticated attacks

# Analysts Overwhelmed

# Technology faster than bureaucracy

# SW, HW constantly evolving

# Website content too dynamic

# Computer network defense

challenges hard to overstate

# E-conomics

# Politics: power or progress?

# Monopoly hurts efficiency, vitality

# Net thrives on information exchange

# Censorship slows cyberspace, economy

# Future will be ever more wired

# Fukuyama: *The End of History*

# The Future of Cyber Resistance

# Internet: champion of freedom

# Traditional media much more susceptible to control

# For ordinary citizens and activists

# Privacy advocates should be cautiously optimistic

# Very Common Tools

- # Tel/sat/web access to foreign ISPs
- # Pseudonymous email
- # P2P, anonymous proxies, encryption
- # Dead drops, steg, covert channels
- # Magic with apps/protocols/ports
- # **Creativity:** text as pictures,  
hiding in whitespace, ?, ?



## In the News

- # **Psiphon:** Citizen Lab Project (UT)
- # Designed for *Greetz 101* regimes
- # Free user #1 installs SW
- # Connection info sent to user #2
- # #2 crypto com to WWW via #1
- # **Security is personal trust**

# No Magic Bullet

# Cyberspace is anarchic

# No perfect attack

# No perfect defense

# Advice: increase vigilance at  
key times (elections)

# If personally targeted, very  
little may help you

# Truth in Cyberspace

# Evidence requires:

# Uncommon expertise

# Infrastructure map

# Traffic baseline

# Multiple access points/data paths

# Knowledge of adversary tactics

# Normally only available to BB

# The Human Factor

# User sophistication rising

# Lay tech analysis possible

# Latency, banners, errors, crashes

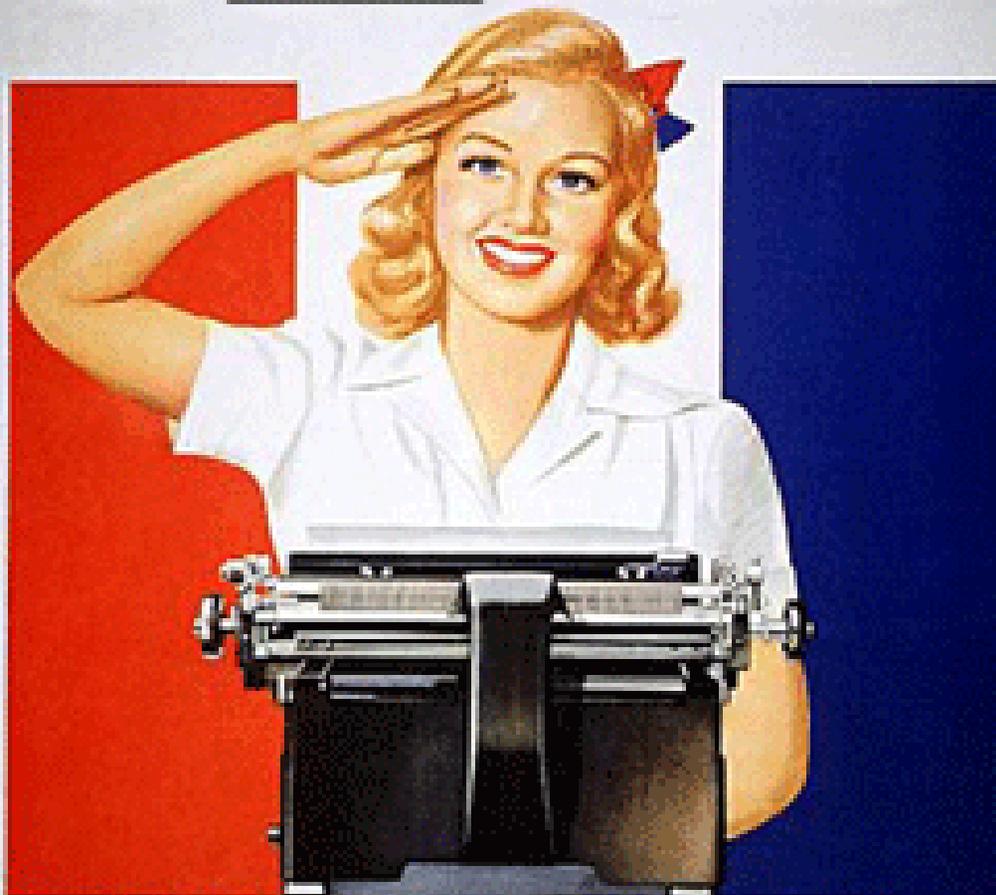
# Investigate outages quickly

# General censorship or targeted?

# Is content amenable to filtering?

# Legit or MITM ... what do you think?

**LIBERTY WAITS  
ON YOUR FINGERS –**



**KEEP ON BLOGGING!**

<http://eff.org/bloggers/>

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