Seminar Introduction:
Information Technology
Goes to War!
Technology in Modern Warfare
(1900-Today)

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Malian Rebels Take Town and Vow to Avenge French Attack

PARIS — The French Defense Ministry said on Monday that a town in central Mali had fallen to Islamist insurgents from the north, hours after Foreign Minister Laurent Fabius said his country’s dramatic intervention there had succeeded in blocking a rebel
Security Firm Discovers Cyber-Spy Campaign

NY Times
14 Jan 2013
Administrativia

- 2 Units, Pass/Fail (show up and you will pass!)
- Discussion, Videos, Games—Participation is crucial to learning
- 1 Group Project (mid-March)
- 1 (short) research report (end of semester)
- Mission: Have fun, explore the topic, learn
- Use piazza to stay informed: http://piazza.com/berkeley/spring2013/cs39k
Your Background and Experience

• Discussion of your background and experience
  - Who are you?
  - Why are you interested in this class?
  - What, if anything, do you know about military affairs?
  - Do you know someone in the military, a relative or school friend?

Why Study War?

• Why do we fight?
• The Horror of Modern Warfare: Screening of "Saving Private Ryan", opening Omaha Beach sequence.

Outline
• Universal Conscription vs. the All-Volunteer Army
To fight today’s wars with an all-volunteer force, the U.S. Army needs more quick-thinking, strong, highly disciplined soldiers. But creating warriors out of the softest, least-willing populace in generations has required sweeping changes in basic training.


Quick History of 20th Wars

1900 1950 2011
Steam-powered Gas-powered Information-powered

Colonial Great Power Insurgency Global Terrorism

U.S. vs. Great Britain vs. Communist vs. Al Qaeda
Philippines vs. Germany vs. Nationalist vs. Western
China Societies
Four Wars You (May) Have Never Heard Of

- Spanish-American War, April-August 1898
- Reconquest of the Sudan/Battle of Omdurman, 1898
- Boer War, 1898-1902
- Russo-Japanese War, 1904-1905
Spanish-American War

Reconquest of the Soudan
Boer War

• Britain vs. Dutch Settlers (Boers aka the Afrikkanas) in South Africa
• Guerrilla war effectively neutralizes the technical superiority of British forces
• Scorched earth, block houses, and concentration camps
• Beginning of the end of the British Empire

Russo-Japanese War

• Russia vs. Japan over expansion into Manchuria and Korea
• Numerous Japanese victories over a European power shock the World
  – Sneak naval attack before declaration of war
  – Problems of logistics for the Russians
• Emergence of Japan as a regional power, decline of Russia as a world power
• Russian Revolution of 1905
Early 20th Century Strategic Decision Making
– Arms race between British Grand Fleet vs. German High Seas Fleet
– Who can build strategically the best navy, with the available financial resources?

Next Week: The Naval Game