FRAMING THE DEBATE:  KEY DIALECTICS

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“cloud” - ?

• **NIST Special Publication 800-145**
  - Services without human intervention
  - Wide range of client devices via networking
  - Virtualisation
    → digital operations are not linked to specific servers or locations
  - Scalability
    → Scale up or down in response to demand
  - Software as a Service
    → Often, but not necessarily

(Mell and Grance 2011)
Axis 1: Privacy & Functionality

The Privacy Fallacy
(Bergkamp 2002)

Principles of Privacy-Aware Ubiquitous Systems
(Langheinrich 2001)
Axis 2: Responsibility

Ethical Responsibility

- **NO**
  - The Responsibility Gap (Matthias 2004)
  - Killer Robots (Sparrow 2007)

- **YES**
  - Software Agents, Anticipatory Ethics and Accountability
    (Johnson 2011)
Axis 3: Heirachical - Flat

HEIRARCHICAL  MODEL  FLAT

Proprietary & Client-Server
Google, Facebook, Amazon etc

Open Source, IETF
BOINC, BitTorrent
Fuchs, McChesney
Walled Gardens

- "Trackers" Service Interface
- Google Service Interface
- Facebook Service Interface
- Amazon Service Interface

Display & Data control – HTML, XML, RDF, etc

HTTP/HTTPS

TCP/IP
References