Distributed Thinking
a.k.a.
Human Computation

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SHDH 20

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Some slides and much of the content courtesy David P. Anderson. Used with permission. His email: davea@ssl.berkeley.edu (recent talk titled "Citizen Cyber-Science.")
SETI@Home or Folding@Home but with people cycles.

David P. Anderson - Distributed Thinking
- SETI@Home → BOINC (and its various subprojects),
  (BOINC is an infrastructure for volunteer computing)
- Stardust@home → Bolt & Bossa
  - Bolt - online training & education
  - Bossa - Distributed Thinking
  - email David if you want to help / participate

University of Washington - Baker Lab
Rosetta@Play - protein folding game

Luis von Anh - Human Computation
- The ESP Game, Peek-A-Boom, and Phetch - Social tagging
- reCAPTCHA - stop spam and digitize books.
- great Google Tech Talk ("Human Computation")
Stardust@home

- The Stardust mission
  - 1999-2006
  - collect cometary, interstellar dust
- Where’s the dust?
  - aerogel collector
  - 100K “focus movies”
- Stardust@home
  - http://stardustathome.ssl.berkeley.edu/
  - 23,000 volunteers
  - 43M viewings
  - 14 verified tracks, 50 candidates found

Slide courtesy David P. Anderson (davea@ssl.berkeley.edu) Used with Permission
Rosetta@play: a protein-folding game

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What else is it good for?

- Visual pattern recognition
  - Stardust@home, Clickworkers
  - Africa satellite photos: UNOSAT
  - text/handwriting recognition
  - image tagging (ESP Game, Peek-a-Boom)
- Real-world knowledge
  - http://openmind.org
- 3D spatial manipulation
  - Rosetta@play
- Language
  - Distributed proofreading: http://pgdp.net

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Evangelism

- no more useless games (solitaire, minesweeper, sodoku, etc)
- productive procrastination
  - sometimes people like to think and be challenged
  - sometimes they just like to pass the time
- When wasting time, we’re better off doing something useful
  - (at least useful for someone else)

Tell you friends and coworkers!

This Presentation and links at:

http://nomeans.net/napoleon

Thank you.