University of Vermont | Vermont Advanced Computing Center

SOCKS All Hands Meeting

March 30, 2026

IceCore Stats

IceCore, UVM's latest GPU cluster, will revolutionize our research capabilities with its state-of-the-art technology, offering unparalleled performance in AI and massively parallel processing.

- 64 NVIDIA H200 NVL GPUs
- 40 NVIDIA H200 SXM GPUs
- 48 NVIDIA RTX PRO 6000 Blackwell Server Edition GPUs
- 400 GB/s InfiniBand networking, 100Gb/s Ethernet
- 52.5 TB of memory (27 TB in GPU nodes, 25.5 TB in CPU-only nodes)
- 8128 CPU cores (4864 in GPU nodes, 3264 in CPU-only nodes)

VACC open house: https://go.uvm.edu/vacctour2026

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SOCKS Secure computing cluster

- 3 compute nodes, each with 32 cores, 192GB memory, and 1 L40S NVIDIA GPU
- 1 large memory compute node with 64 cores and 1.1TB memory
- 2 utility nodes for cluster management, Slurm, Globus, etc.
- Storage array and services for new GPFS filesystem, all-NVMe, 350TB
- Storage and servers for secure Netfiles bulk/archive storage, 600TB storage + 750TB for backups
- 25Gb networking for secure cluster

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Research Computing Team

Mike Austin, UVM Chief Technology Officer

Chris Danforth, VACC Director

Andi Elledge, VACC Dir. of Operations

Patrick Clemins, Dir. Large Research Initiatives

Team Lead: Jim Lawson

Systems Engineers

- Bennet Fauber
- Katy Czar
- Robert Minvielle
- Travis Bartlett
- Evan Hinchliffe

Senior Research Computing Facilitators

- Shelly Johnson
- Terry Barrett

Data Engineer

- Michael Arnold

Data Visualization Research Engineer

- Ben Cooley


Mike


Chris


Andi


Patrick

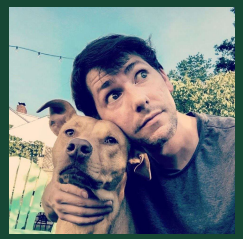

Jim


Katy


Terry


Michael


Ben


Travis


Bennet


Shelly


Robert


Evan

Resources

- **SOCKS Datasets Repository**
  - The SOCKS Dataset software enables SOCKS researchers to list and share Data Sets to help those looking for data and aid in finding synergy between researchers. To gain access, log in at UVM's GitLab (UVM NetID preferred) to establish an account and then send an email with your UVM-GitLab ID to SOCKS Help to request it be added to the SOCKS Team.
    https://gitlab.uvm.edu/users/sign_in
- **Virtual Café**
  - Weekly open office hours for assistance with research computing and data storage
    https://www.uvm.edu/it/research-computing-events
- **VACC Documentation**
  - The user guide offers basic information on getting started and the full capabilities of the VACC. https://www.uvm.edu/vacc/docs/
- **Help**
  - Research Computing and Data (RCD) questions or to request RCD facilitation, sockshelp@uvm.edu.

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New Investments in Data Storage

Enabling Data-Intensive Discovery

- High-throughput parallel file systems prevent I/O bottlenecks.
- Supports massive-scale simulations and AI/LLM training.

Research Integrity & Compliance

- Ensures **reproducibility** through long-term archiving and data provenance.
- Meets **NSF mandates** for Data Management Plans (DMP) and security (NIST/HIPAA).

Collaborative Ecosystem

- Unified Truth for Research Partners
- Secure, high-speed access to shared datasets across global networks.

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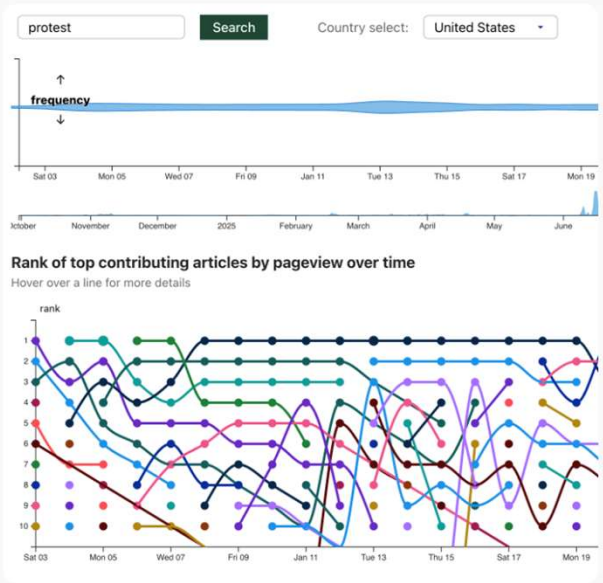
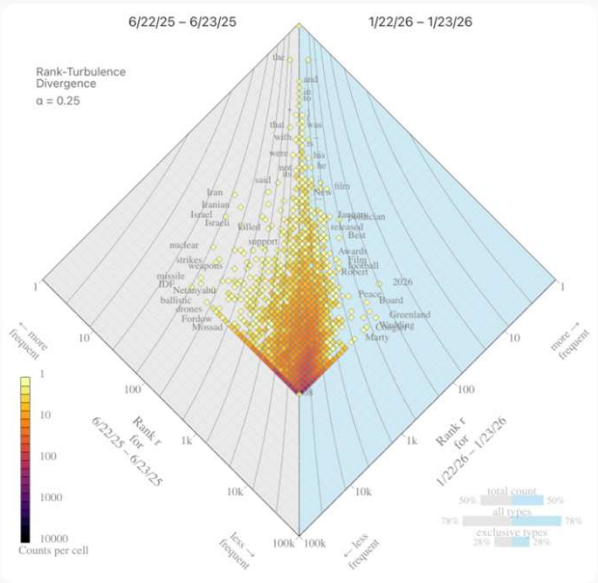


WikiWrangler+

Dive deeper into the changes on each day by viewing a complete list of diverging terms and also the top 10 Wikpedia articles that are contributing to its rank.

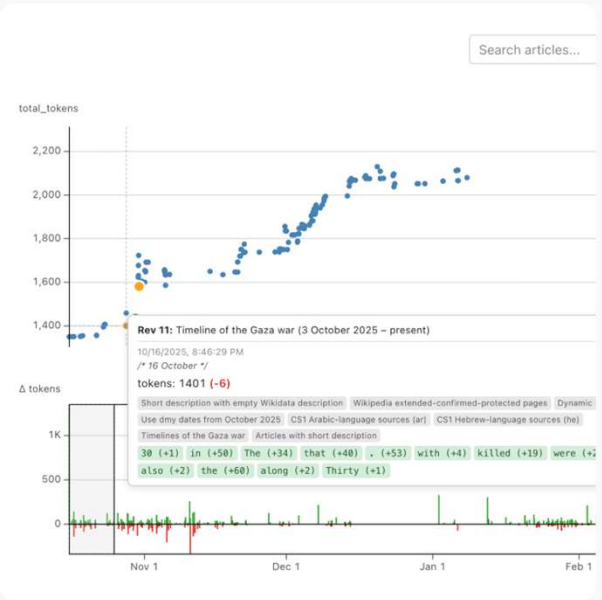
Go to WikiWrangler



Allotax

Use our custom Allotaxonometer tool to compare all of Wikipedia's text between two ranges of time.

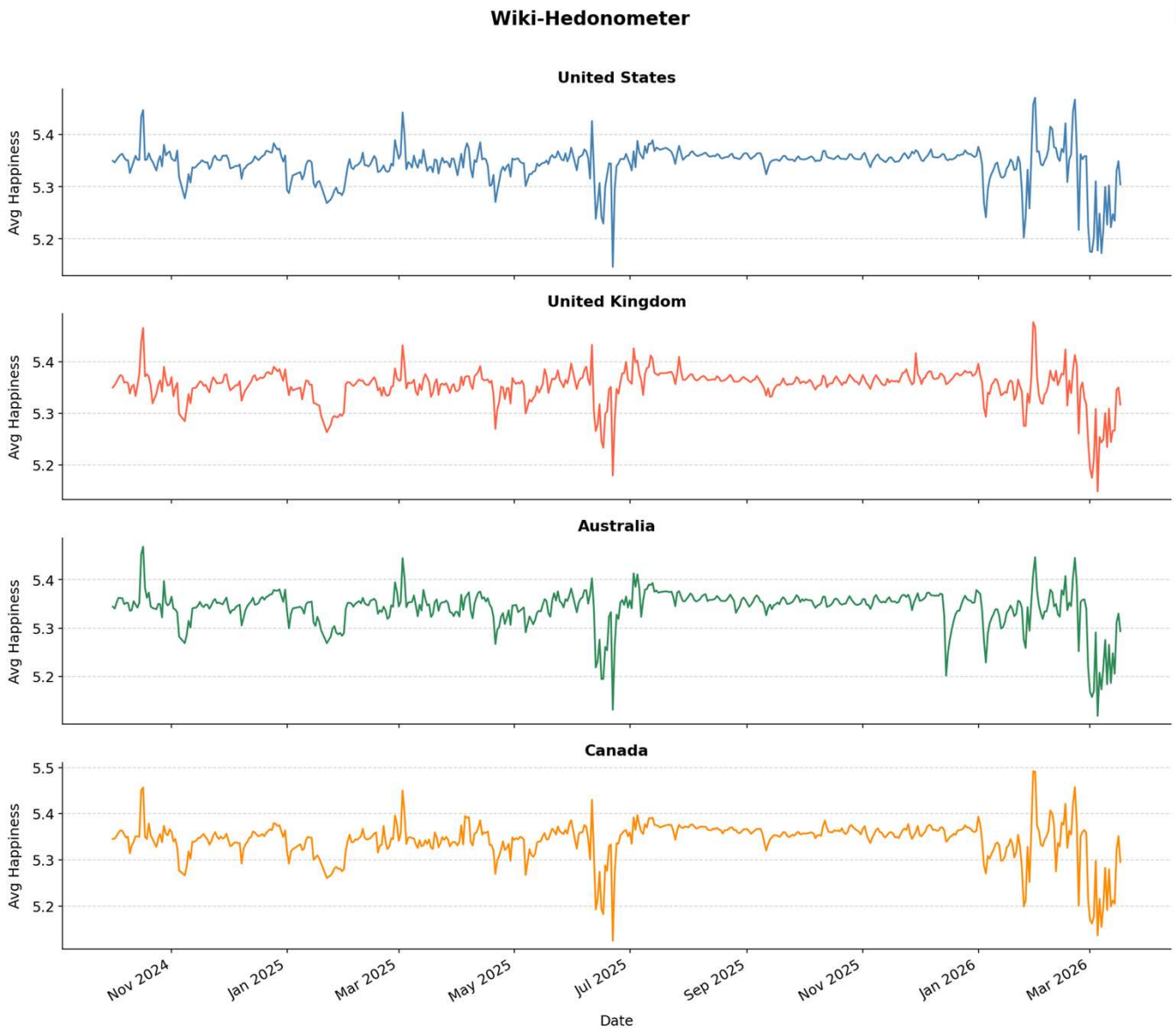
Go to Allotax



Revision Analyzer

Use our custom Revision Analyzer tool to compare all of Wikipedia's text between two ranges of time.

Go to Revision Analyzer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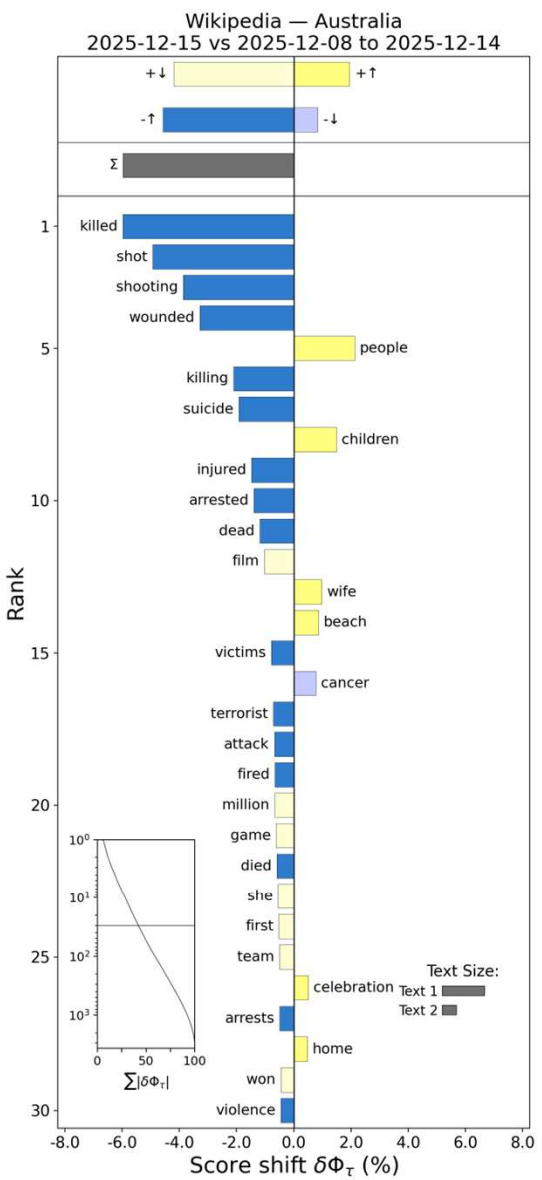
Wikipedia — Australia
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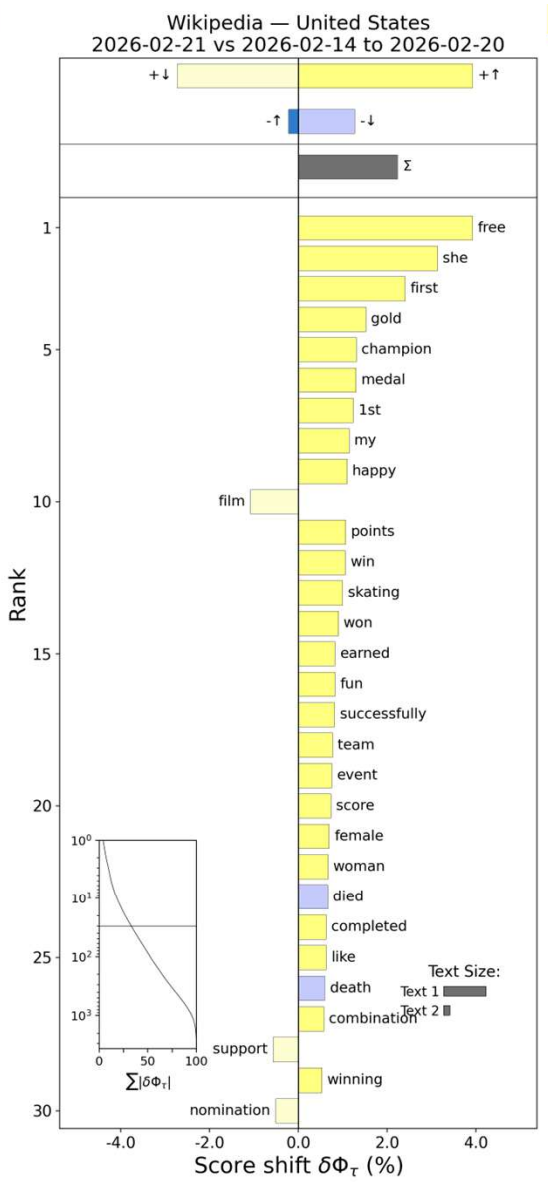
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