

IT UPDATES

September 13, 2016

PERSONNEL

PROCESS

2016 ROADMAP

STATISTICS

INFRASTRUCTURE

PERSONNEL

- **CTO (.3 FTE)**
 - Sandy Payette
- **Development (2.7 FTE)**
 - Brian Caruso (1 FTE)
 - David Fielding (.5 FTE)
 - Martin Lessmeister (1 FTE)
 - Brandon Barker (.2 FTE)
- **UI/UX**
 - Manolo Bevia (.5 FTE; joined March)

PROCESS

- **We work in 2-week blocks called “sprints”**
- **Prioritization informed by CTO, Scientific Director, developers, admins, MAB/SAB**
- **MAB/SAB help define annual development roadmaps**
- **Development less agile than we’d like, but process works well overall**

2016 ROADMAP: MODERATION TOOLS

- **Proposal system**

Moderator Article Review Page

[View Article](#) [List \(Moderator Home\)](#)

submit/1659576 source: pdftex

New

Status: submitted – SCHEDULED FOR ANNOUNCEMENT: 2016-09-07 20:53:31 GMT (64kb)

From: Jeremy L. Martin <jlmartin@ku.edu>

Date: Wed, 7 Sep 2016 20:53:31 GMT (64kb)

Title: Oscillation estimates of eigenfunctions via the combinatorial method

Authors: Vera Mikyoung Hur, Mathew A. Johnson, Jeremy L. Martin

Categories: [Propose New](#) **math.SP** [change](#) | [math.AP](#) [reject](#) | [math.CO](#) [reject](#)

Classifier: math.AP 0.37 math-ph 0.24 math.SP 0.16 math.DS 0.01

Comments: 18 pages

MSC-class: 35P05, 05A18

License: <http://creativecommons.org/licenses/by-nc-sa/4.0/>

Abstract: We study oscillations in the eigenfunctions for a fractal associated local problem in the upper half plane and noncrossing partitions, we turn the nodal domain boundary value problem on planar domains.

[Disable MathJax](#)

[Contact](#)

Reject Submission's Primary Category ✕

Would you like to reject primary category **math.SP** from the submission?

Reject
 Accept as Secondary

Propose Alternatives (optional)

Classifier:
math.AP 0.37 math-ph 0.24 math.SP 0.16 math.DS 0.01

Propose primaries:

Propose secondaries:

- Empowers moderators to make classification decisions about submissions via controlled vocabulary
- Over 1000 actions taken by moderators on over 300 submissions since August 25

2016 ROADMAP: TEX SYSTEM

- **Current system based on TeX Live 2011**
- **Incorporating TeX Live 2016**
- **October release**

2016 ROADMAP: CODE MIGRATIONS

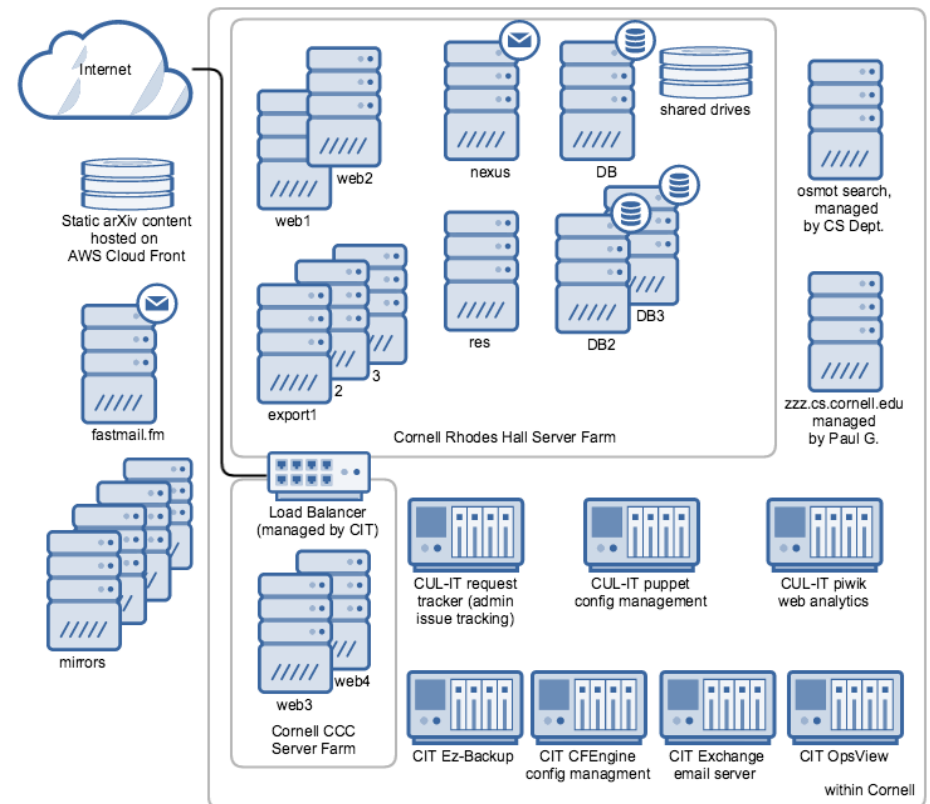
- **User administration system (tapir)**
 - PHP → Perl/MVC (Catalyst)
- **Clean up and consolidate code repositories**

2016 ROADMAP: REST OF 2016

- **Moderation interface**
 - Streamline interfaces, add functionality
- ***Enforce* HTTPS site-wide**
- **Better ORCID author identifier support**
- **Complete repository consolidation**
- **Decommission additional mirrors**

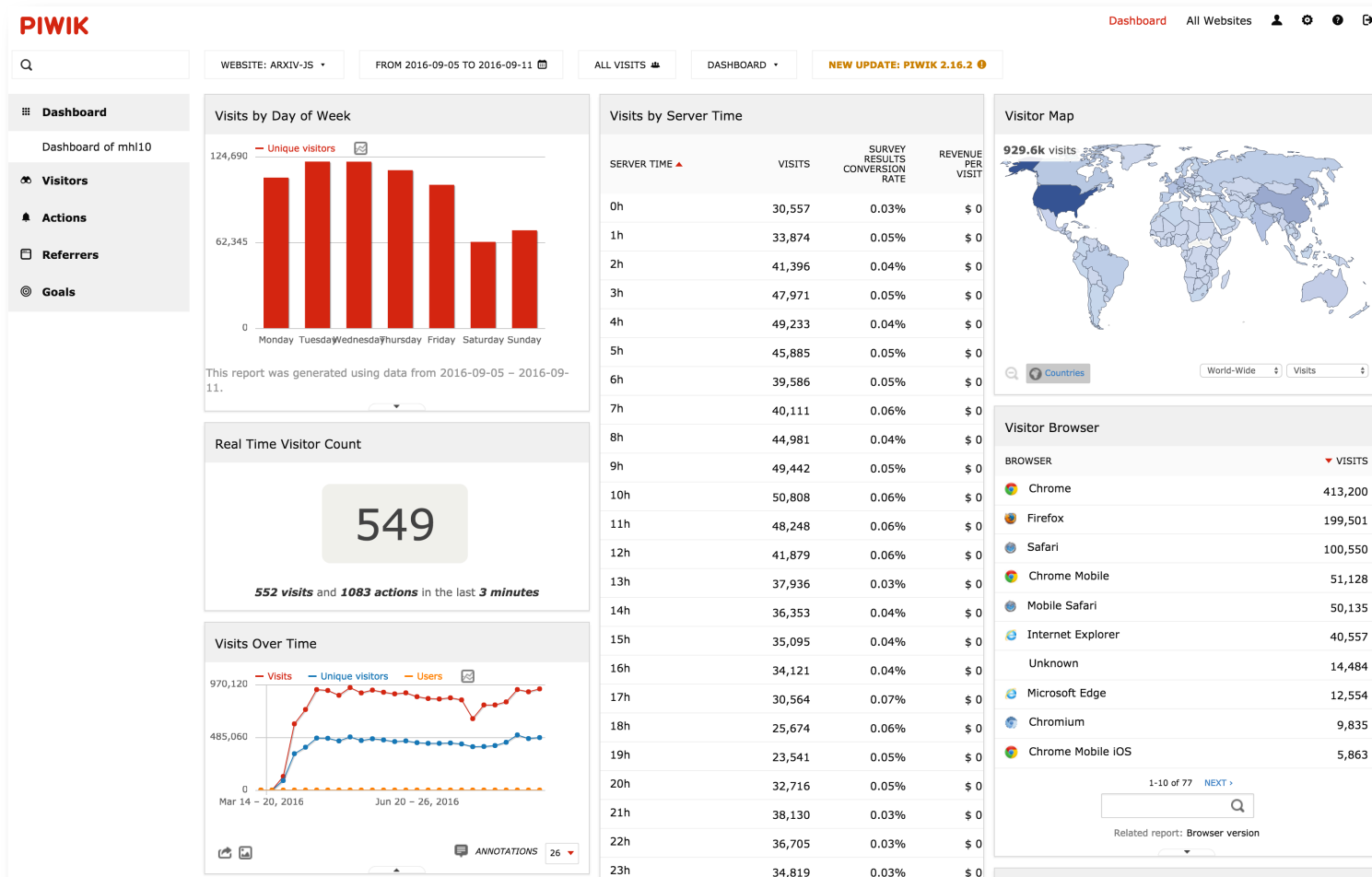
INFRASTRUCTURE

- 14 locally-hosted servers (production and VMs)
- 5 mirrors
- Shared file system



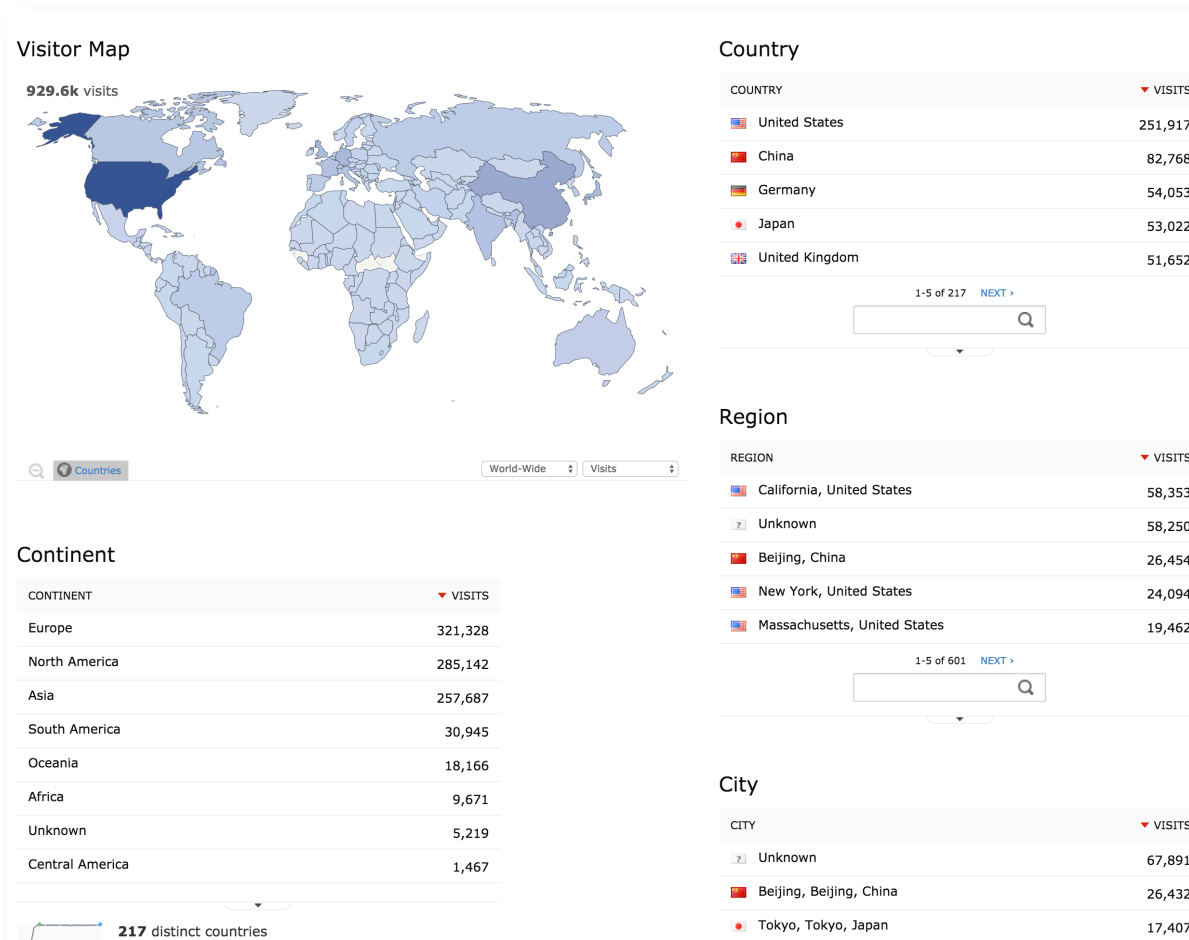
INFRASTRUCTURE

- Web analytics via Piwik



INFRASTRUCTURE

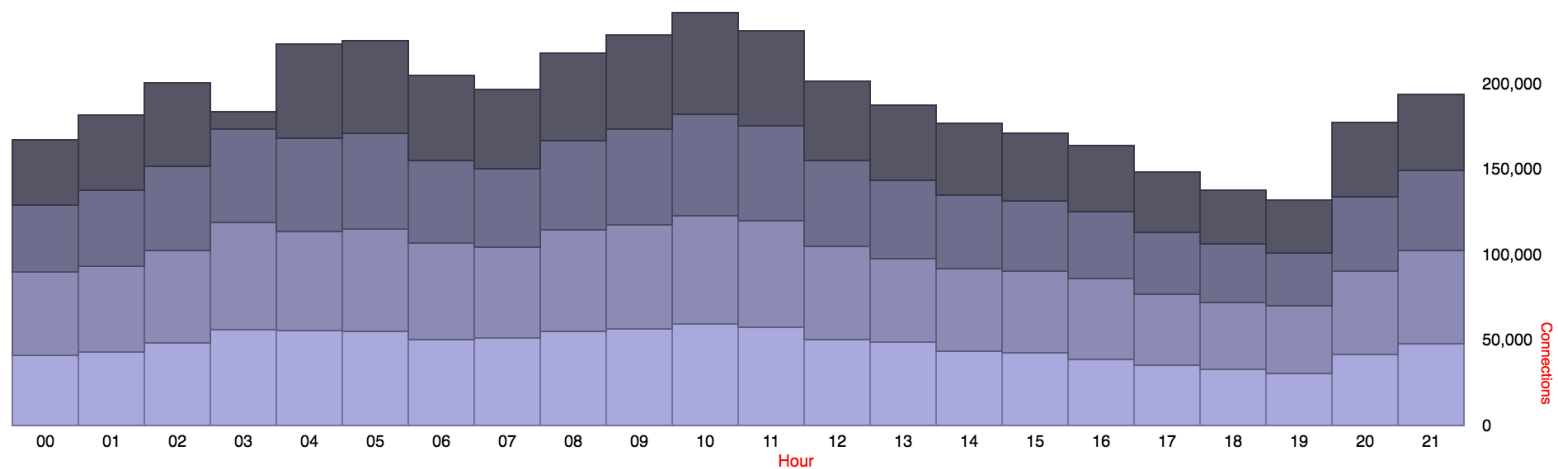
- Web analytics via Piwik



STATISTICS

- 4M+ page requests to main site / day

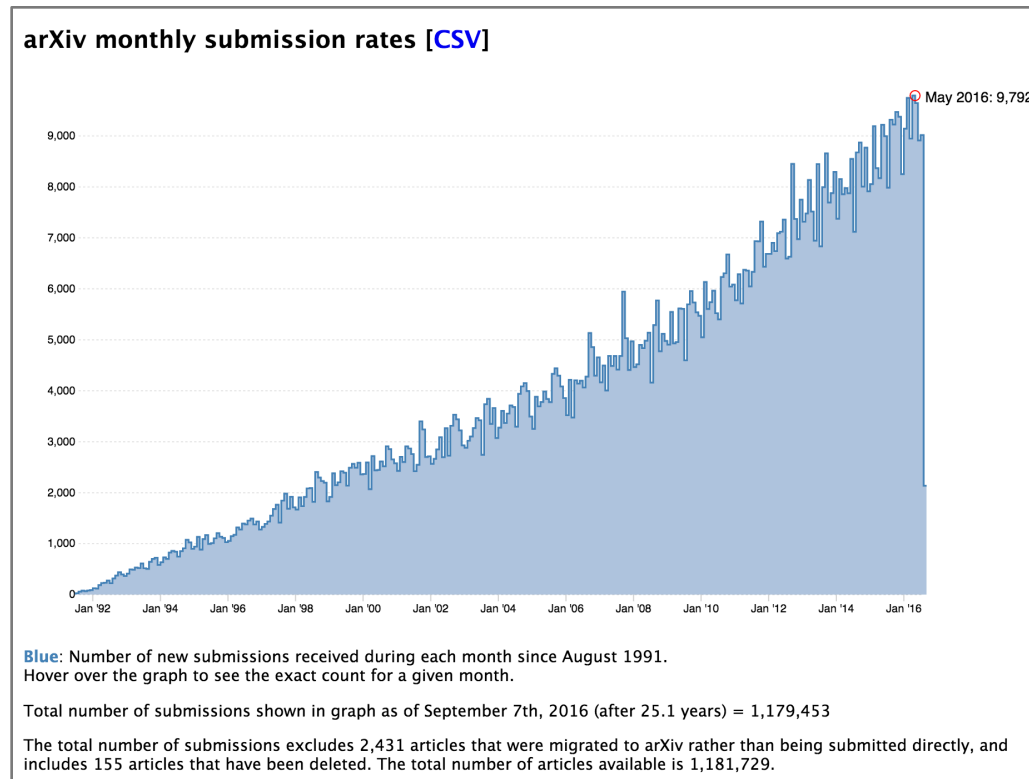
arXiv web server usage for Wednesday, September 7th, 2016 (arxiv.org site only) [CSV]



Total number of connections = 4,187,367 (+107,029 local & administrative connections)
Current local time is *Wednesday, September 7th, 2016 22:12:09 EDT*

STATISTICS

- Approaching 10K submissions / month (peak: 9,762)



STATISTICS

- **16.2M papers downloaded in Jan 2016**
- **803M papers downloaded since 1994**

