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Google Confidential and Proprietary

Moderator

Google

Andy Moore

Publisher

KMWorld Magazine

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Google Confidential and Proprietary

Innovation @ Google:

A Day in the Life

Google Confidential and Proprietary

Speaker

Naveen Viswanatha

Sales Engineer

Google Enterprise

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Innovation @ Google

Naveen Viswanatha
Sales Engineer
Google Enterprise

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Innovation @ Google

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Google's mission

To organize the world's information and make it universally accessible and useful.

Online content
Billions of web pages

Google

Offline content
Billions of items becoming indexed

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Google Overview

Current Index:	World's largest search engine
Employees:	16,000+ many of whom are technical / engineering
Search Market Share:	More than 62% of worldwide search page views[1]
Enterprise Customers:	More than 15,000 customers to date
Office Locations:	More than 40 offices worldwide including Mountain View, New York, Boston, London, Tokyo, Hamburg, Paris, and Milan
International:	109 interface languages and 113 international domains

1 MediaMetrix (June 2005)

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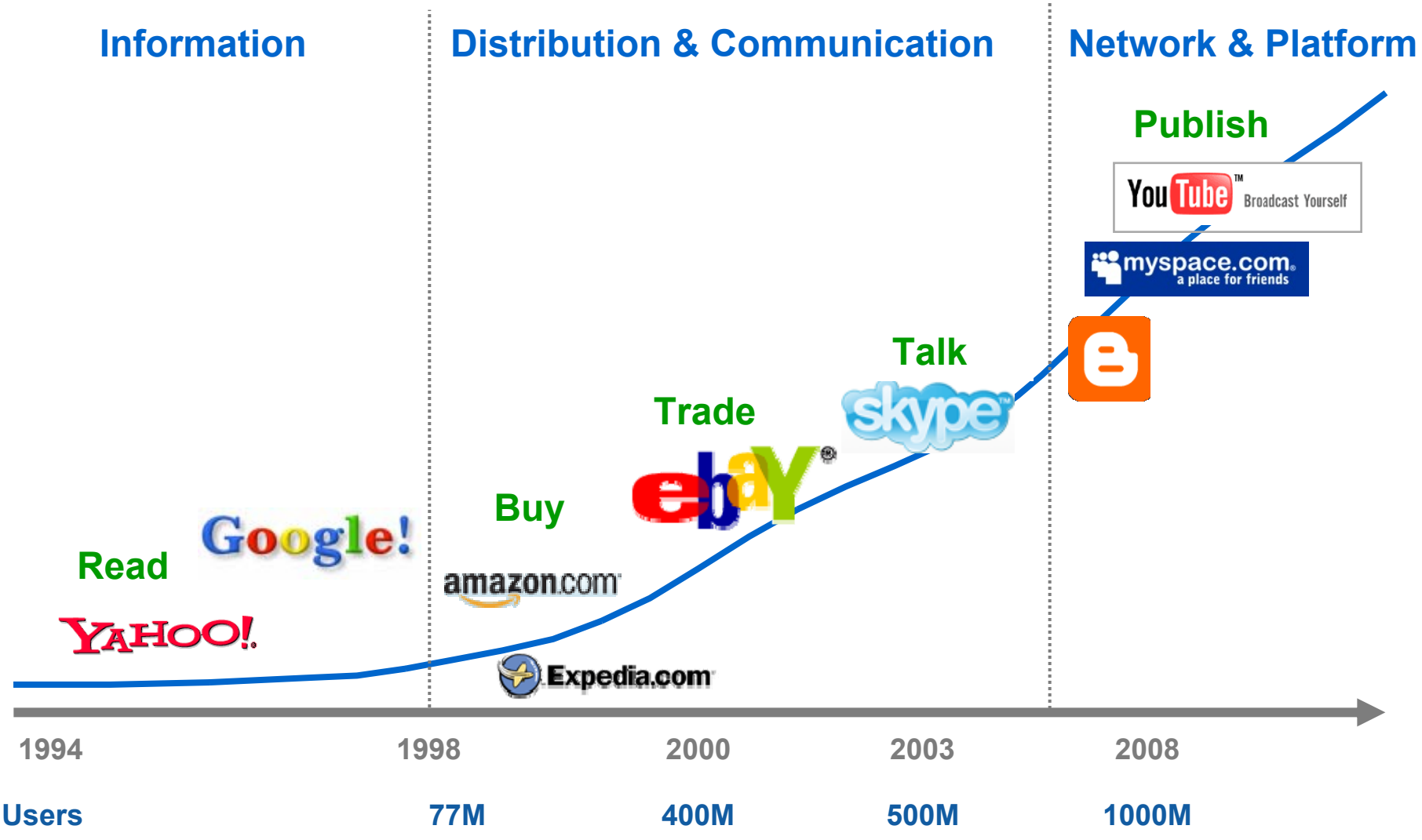
Internet Evolution



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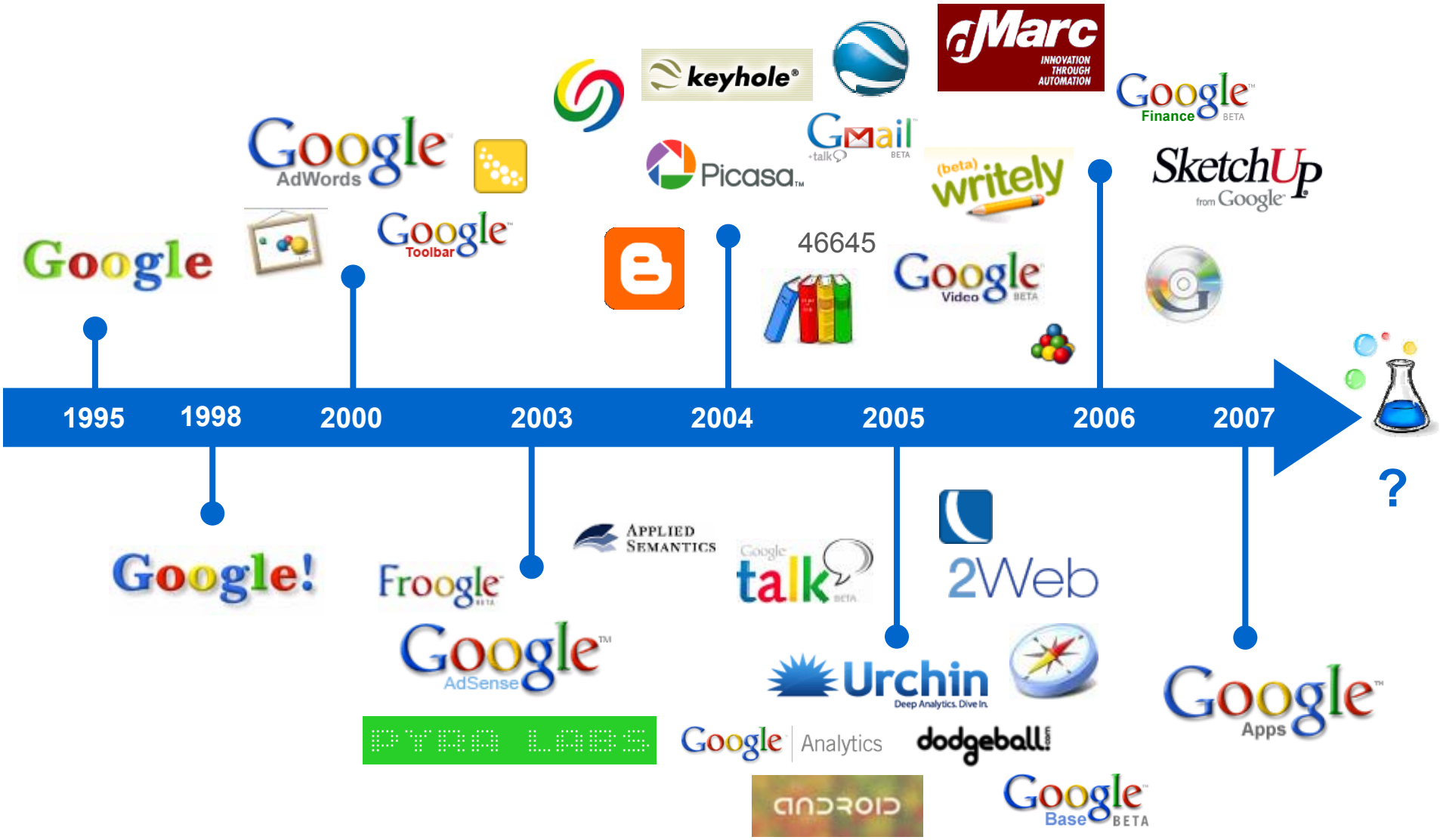
Google Has Evolved with the Internet



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Innovation is at the Core of Google's Competitiveness

Fostering Innovation @ Google

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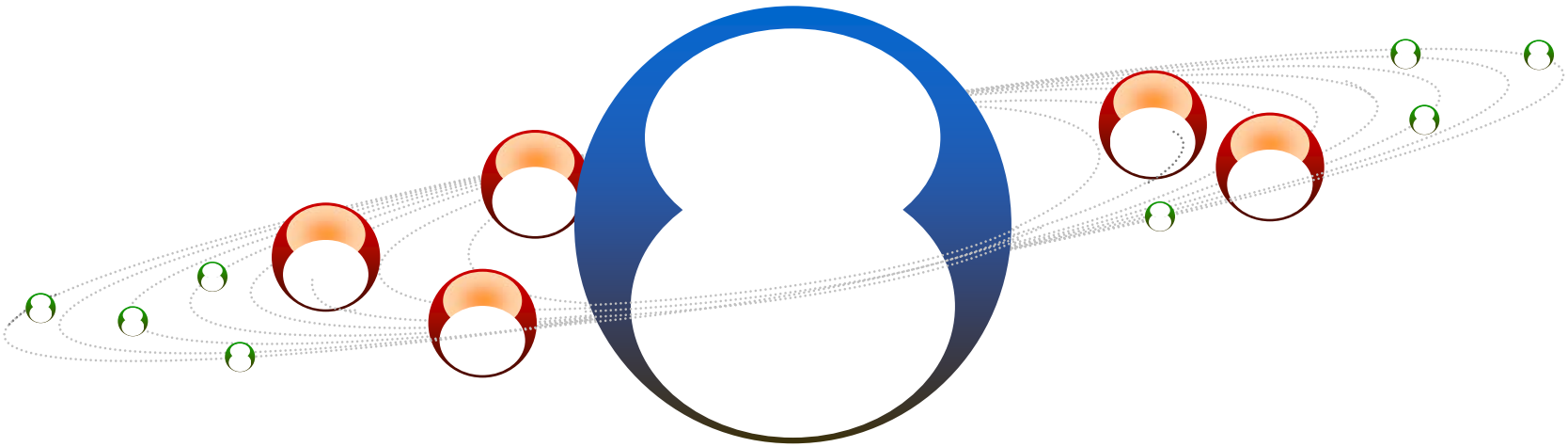
Sergey's Resource Allocation Rule



Search, Ads, Apps
Search Quality
Crawl/Indexing
AdWords / AdSense
Google Apps

Strong potential
Blogger
Picasa
News
Pack

Wild and Crazy
Offline Ads
Google WiFi
Google Transit

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International Collegiate Programming Competitions

Google Confidential and Proprietary

Google's Engineering Centers

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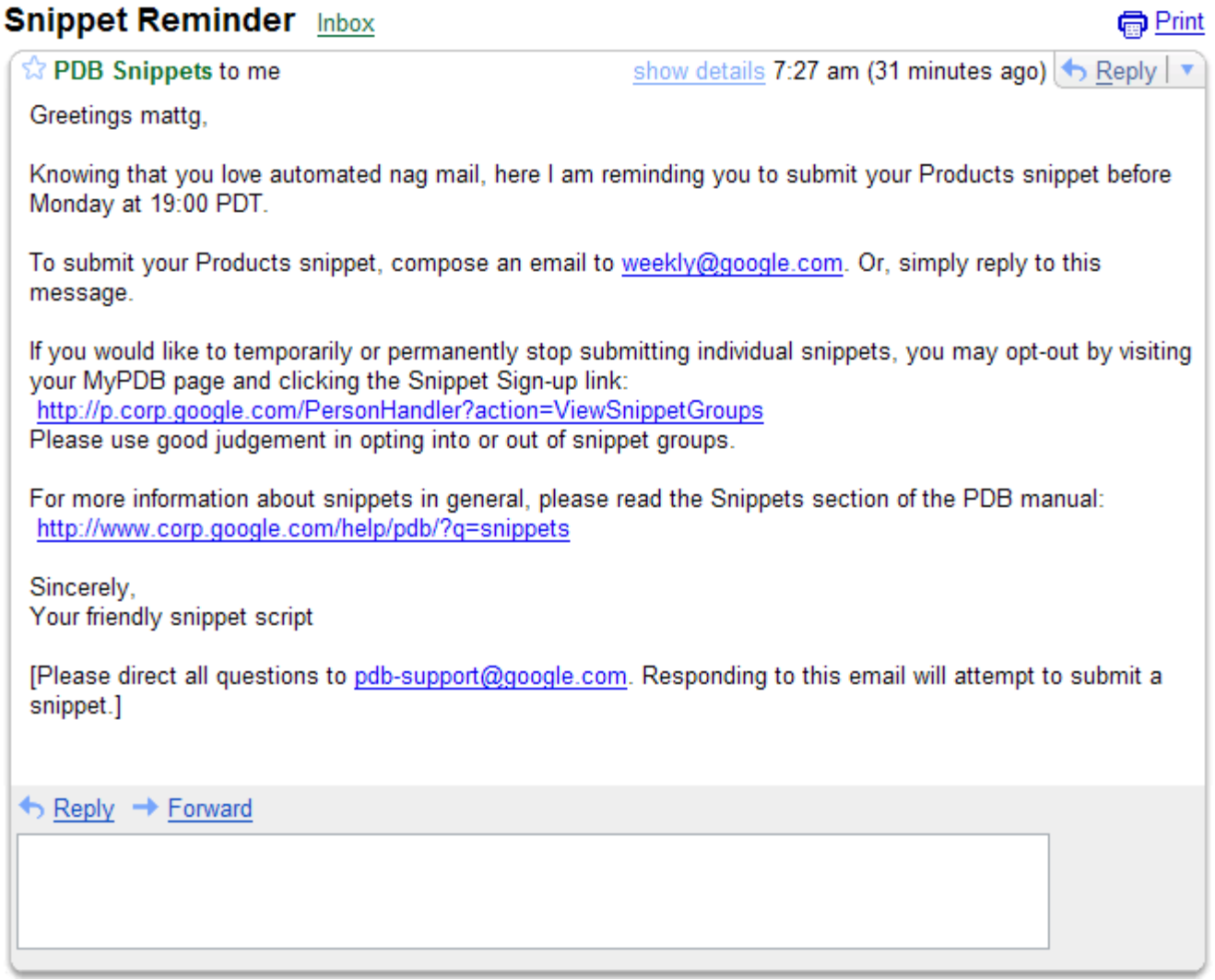
Flatten management structure



Snippet Reminder Inbox

Print

PDB Snippets to me show details 7:27 am (31 minutes ago) Reply

Greetings mattg,

Knowing that you love automated nag mail, here I am reminding you to submit your Products snippet before Monday at 19:00 PDT.

To submit your Products snippet, compose an email to weekly@google.com. Or, simply reply to this message.

If you would like to temporarily or permanently stop submitting individual snippets, you may opt-out by visiting your MyPDB page and clicking the Snippet Sign-up link:
http://p.corp.google.com/PersonHandler?action=ViewSnippetGroups
Please use good judgement in opting into or out of snippet groups.

For more information about snippets in general, please read the Snippets section of the PDB manual:
http://www.corp.google.com/help/pdb/?q=snippets

Sincerely,
Your friendly snippet script

[Please direct all questions to pdb-support@google.com. Responding to this email will attempt to submit a snippet.]

Reply Forward

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Google PROJECTS

OKRs | Ideas | Design Docs | Design Doc Queue | Launch Calendar

What's New - Preferences - Help - Contact Us - Logout

My PDB | Projects | Charters | Staffing Requests | Reports

Search

Rajen Sheth (rajen)

Product Manager, Enterprise

Office: US-MTV-1098 228D
Manager: Matthew Glotzbach

MOMA - OKRs - Google Resume

Projects

Staff

- Enterprise
  - Mini 2.0 Development (PT, Other) Product Manager

Management

- Enterprise
  - **Product Manager** Enterprise Platform
  - **Product Manager** Enterprise Infrastucture
  - **Product Manager** GSA One-Way
  - **Product Manager** [redacted]
  - **Product Manager** Mini 2.0 Development
  - **Product Manager** Mini 2.0 Support
- Google Apps for Your Domain (Dasher)
  - **Product Manager** Authentication
  - **Product Manager** Provisioning

Available after: Unspecified

Tasks | **Snippets**

Atom

Mon, Sep 18, 2006

Last Week
- Finalized [redacted] Google Apps release features
- Resolution on IMAP and Gdata API, and address book
- Strategy for international universities
- Strategy 2007 for Google Apps
- Planned customer trip to east coast
- Synced up with [redacted] on contract
- Further detail on needed partners
- Customer and partner meetings: [redacted]

This Week
- Presentation at Web 2.0 conference in Virginia
- Customer visits in Washington DC
- Customer visits in NYC
- Finalize [redacted]
- Meeting with [redacted]
- Strategy 2007
- [redacted] RFI

Tue, Sep 12, 2006

Last week:
- Google Apps
- Finalized PRD for Q4 release, and initial review with eng

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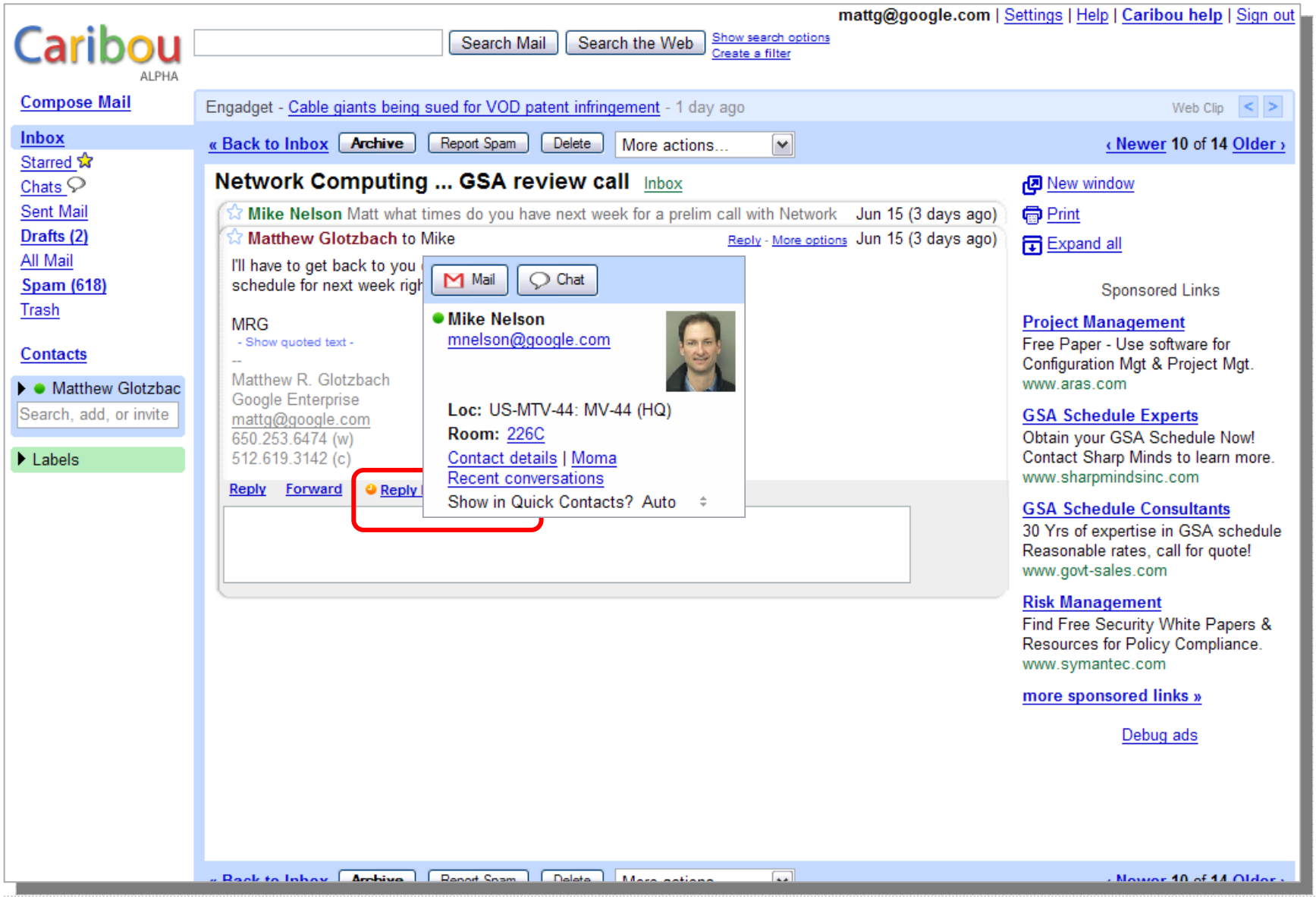
Iterative design, constant improvement



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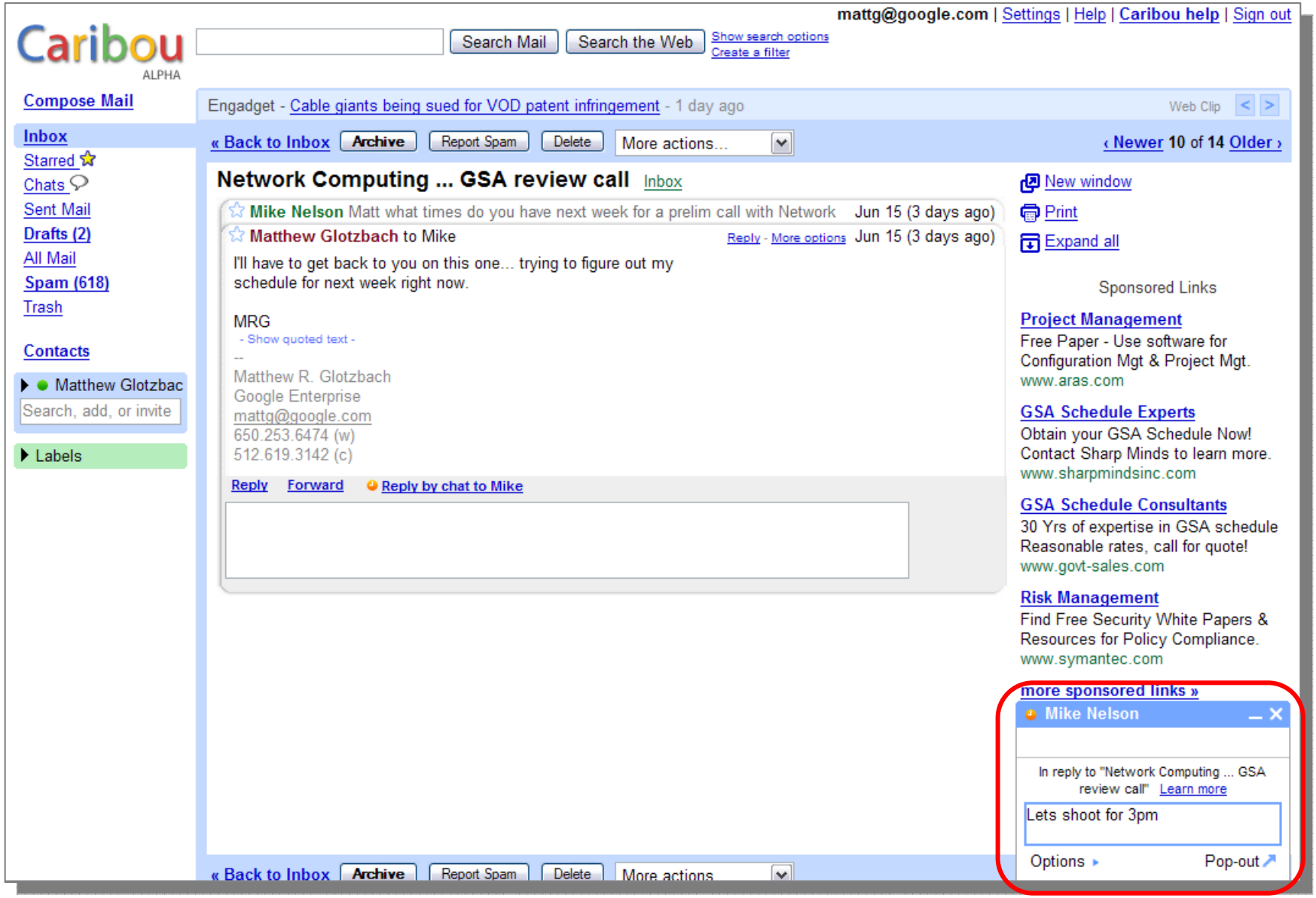
Try new ways of doing things



Generate, prize & encourage people to act on new ideas

Google

Google Ideas™

Welcome, Matthew Glotzbach
Preferences
SSO Logout

Post a New Idea

Search for [ ] in [Body] Status: [ ] Date: [ ] Filter Clear

Ideas **1** - **25** of **4896**

Buzz	Approval	Creator	Summary	Date
1.4	4.0	fu@google.com	google talk IM babel fish	Sep. 25, 2006 3:42am
0.8	4.1	Sanjay Agarwal	Better collaboraion in Google docs & Spreadsheets	Sep. 25, 2006 1:07am
0.8	3.1	Andrew Hyatt	Personal public RSS aggregation in Blogger	Sep. 24, 2006 12:05pm
1.4	3.6	Peeyush Ranjan	UPC database and application	Sep. 24, 2006 11:45am
1.4	3.8	Brandon Badger	Create Index of Geocoded Data and Generic Geolocating Tool	Sep. 23, 2006 5:44pm
1.4	3.7	NeilFred Picciotto	GPS integration with Earth/Maps	Sep. 22, 2006 2:08pm
1.4	4.7	Derek Turner	Put fitness class schedule in Google Calendar	Sep. 22, 2006 11:00am
0.0	4.4	Chris Bentzel	Clickable links in Gmail Contacts	Sep. 22, 2006 9:47am
3.6	2.5	Vitali Fedulov	Anonimous posts in Google Ideas	Sep. 22, 2006 4:16am
2.6	4.3	Keunwoo Lee	Import any HTML table into Google Spreadsheet	Sep. 21, 2006 8:55pm

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Google Ideas

Welcome, Matthew Glotzbach
Preferences
SSO Logout

Refresh

fu@google.com - google talk IM babel fish

Sep. 25, 2006 3:42am

A developer in Pakistan has come up with clients for MSN Messenger and Google Talk that bidirectionally translate text as it goes back and forth in a chat:
http://www.madeinexpress.com/finalist10.asp?id=10 (link to screenshots at bottom of that page)

So for example, let's say I have a friend in China that's not very good at English. I type my messages in English, and they come out on my friend's end in Chinese. Conversely, s/he types in Chinese, and it comes out on my end in English.

If this could be done well, it would be awesome. Abbreviations and slang would pose an issue (rotfl, lol, etc.) but it's still a neat concept.
-john

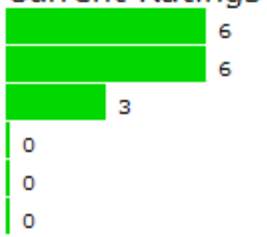
Add a comment

Subscribe me to this idea

Rate this idea:

- 5) Great idea! Make it so.
- 4) Very good idea.
- 3) Definitely has potential.
- 2) May not be worth the effort.
- 1) Probably not a good idea.
- 0) Dangerous or harmful if implemented.

Current Ratings



Dimitri Fischler

Sep. 25, 2006 4:26am

```
The big problem I see is the sender's uncertainty of what's actually being read
by the addressee. But this is clearly a massive opportunity for inter-lingual
communication. Definitely has potential!
```

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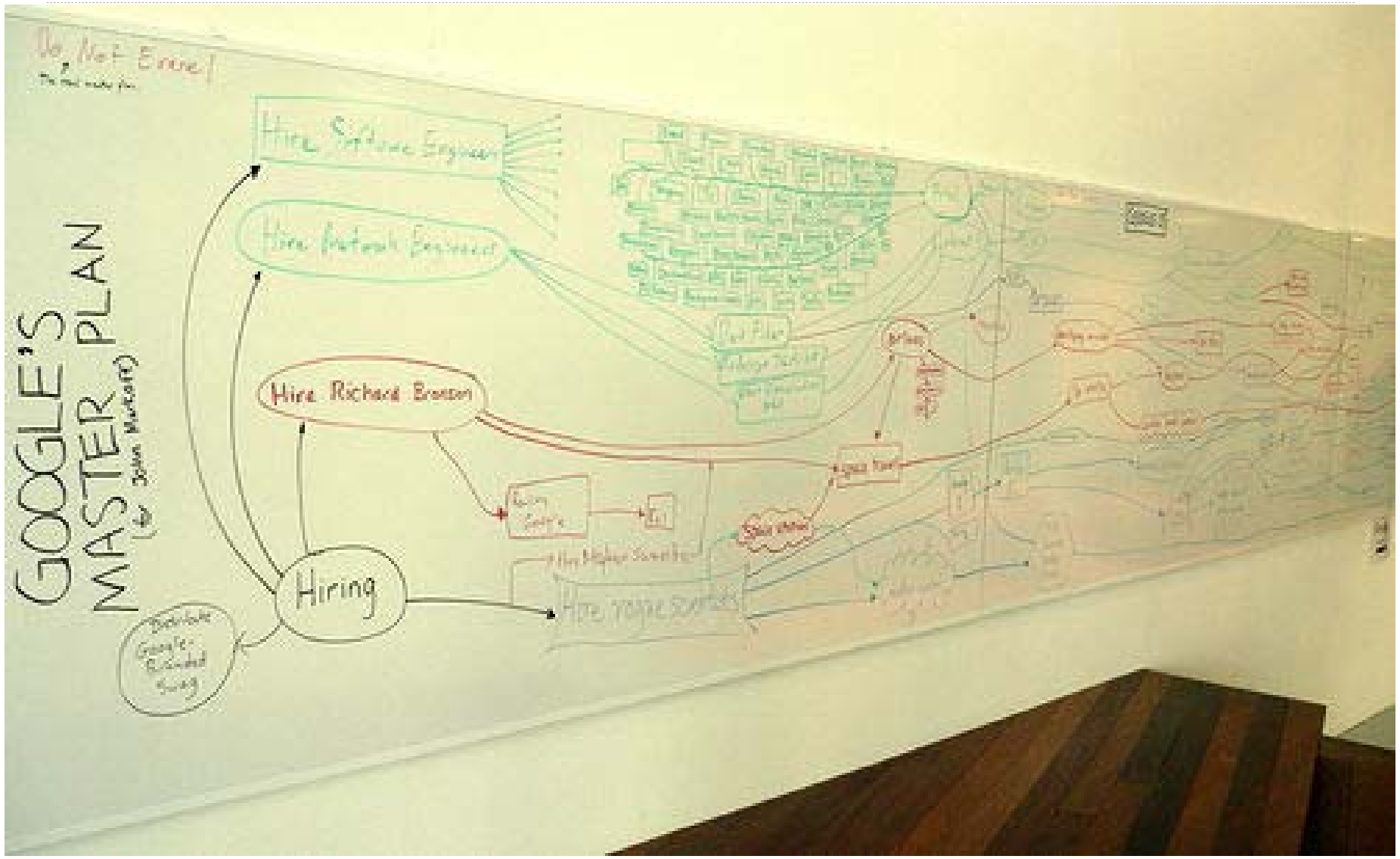
Innovation Is a Collaborative Process



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Collaboration Enables Innovation

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My first week's task

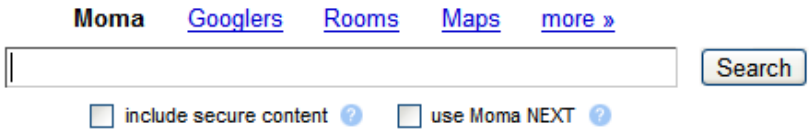
Google

Task

- Just hired into Google Engineering
- Top-secret Killer App Product for Google Apps
- Design the Authentication Services / Interfaces
- Enable partners and customers to integrate into their environments

Tool

moma
inside Google



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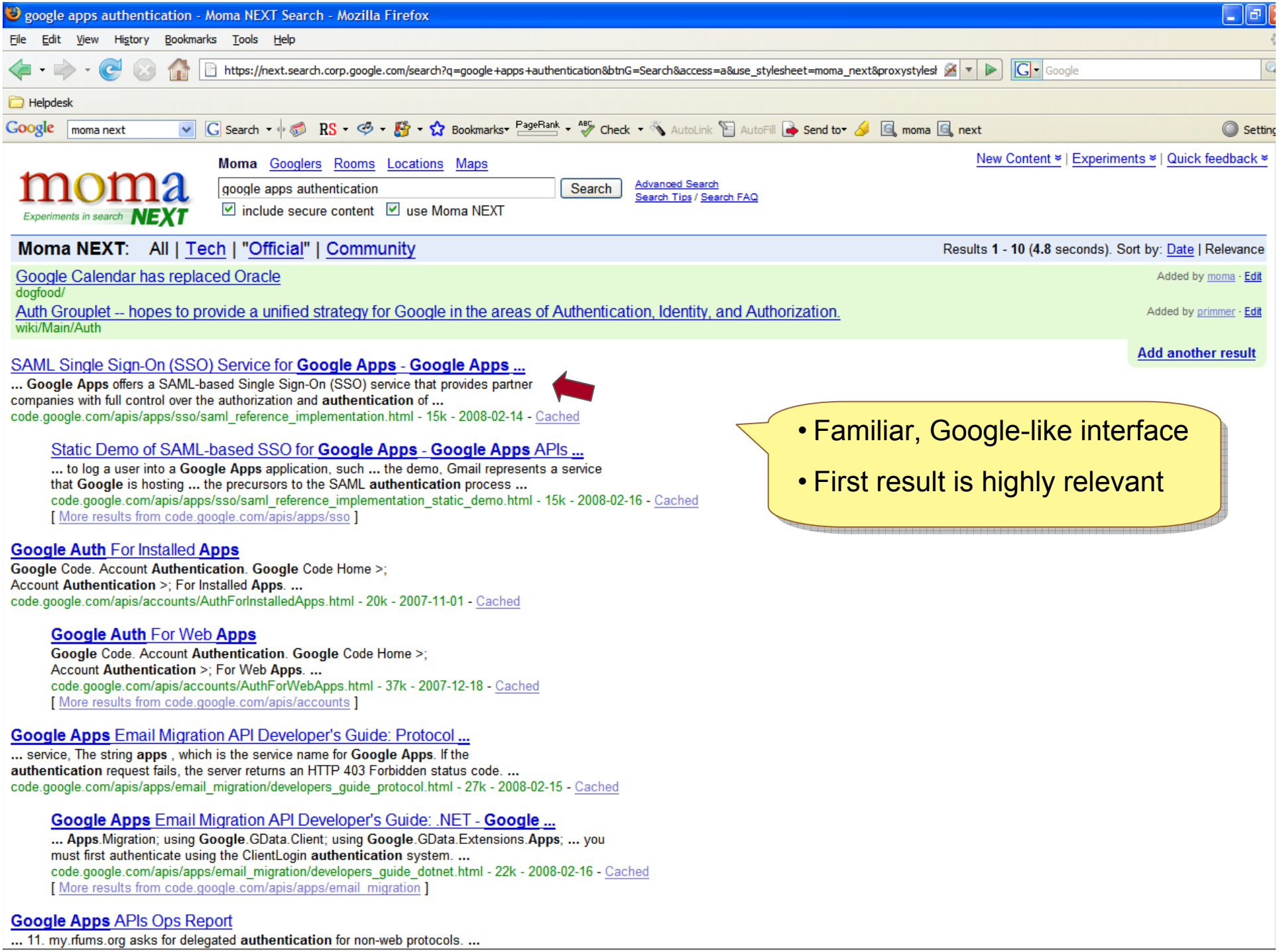
google apps authentication - Moma NEXT Search - Mozilla Firefox
File Edit View History Bookmarks Tools Help
https://next.search.corp.google.com/search?q=google+apps+authentication&btnG=Search&access=a&use_stylesheet=moma_next&proxystylesl
Helpdesk
moma next
Search
Bookmarks
PageRank
Check
AutoLink
AutoFill
Send to
moma
next
moma
Experiments in search NEXT
Moma Googlers Rooms Locations Maps
google apps authentication
Search
Advanced Search
Search Tips / Search FAQ
include secure content
use Moma NEXT
New Content | Experiments | Quick feedback
Moma NEXT: All | Tech | "Official" | Community
Results 1 - 10 (4.8 seconds). Sort by: Date | Relevance
Google Calendar has replaced Oracle
dogfood/
Added by moma · Edit
Auth Grouplet -- hopes to provide a unified strategy for Google in the areas of Authentication, Identity, and Authorization.
wiki/Main/Auth
Added by primmer · Edit
Add another result
SAML Single Sign-On (SSO) Service for Google Apps - Google Apps ...
... Google Apps offers a SAML-based Single Sign-On (SSO) service that provides partner companies with full control over the authorization and authentication of ...
code.google.com/apis/apps/sso/saml_reference_implementation.html - 15k - 2008-02-14 - Cached
Static Demo of SAML-based SSO for Google Apps - Google Apps APIs ...
... to log a user into a Google Apps application, such ... the demo, Gmail represents a service that Google is hosting ... the precursors to the SAML authentication process ...
code.google.com/apis/apps/sso/saml_reference_implementation_static_demo.html - 15k - 2008-02-16 - Cached
[More results from code.google.com/apis/apps/sso]
Google Auth For Installed Apps
Google Code. Account Authentication. Google Code Home >; Account Authentication >; For Installed Apps. ...
code.google.com/apis/accounts/AuthForInstalledApps.html - 20k - 2007-11-01 - Cached
Google Auth For Web Apps
Google Code. Account Authentication. Google Code Home >; Account Authentication >; For Web Apps. ...
code.google.com/apis/accounts/AuthForWebApps.html - 37k - 2007-12-18 - Cached
[More results from code.google.com/apis/accounts]
Google Apps Email Migration API Developer's Guide: Protocol ...
... service, The string apps , which is the service name for Google Apps. If the authentication request fails, the server returns an HTTP 403 Forbidden status code. ...
code.google.com/apis/apps/email_migration/developers_guide_protocol.html - 27k - 2008-02-15 - Cached
Google Apps Email Migration API Developer's Guide: .NET - Google ...
... Apps.Migration; using Google.GData.Client; using Google.GData.Extensions.Apps; ... you must first authenticate using the ClientLogin authentication system. ...
code.google.com/apis/apps/email_migration/developers_guide_dotnet.html - 22k - 2008-02-16 - Cached
[More results from code.google.com/apis/apps/email_migration]
Google Apps APIs Ops Report
... 11. my.rfums.org asks for delegated authentication for non-web protocols. ...
• Familiar, Google-like interface
• First result is highly relevant

SAML Single Sign-On (SSO) Service for Google Apps - Google Apps APIs - Google Code - Mozilla Firefox

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http://code.google.com/apis/apps/sso/saml_reference_implementation.html

Take the Survey | English | Site Directory

Google Code

Search

e.g. "ajax apis" or "open source"

Google Apps APIs

Home Docs FAQ Articles Group Terms

About Google Apps APIs
- Overview
- Getting Started

Domain Administrators
- Provisioning API
- Reporting API
- Email Migration API
- Single Sign-On Service
  - Static Demo
  - Web-based Reference Implementation
- Email Gateway Interface
- Client Libraries and Sample Code

Application Developers
- Google Data APIs
- Calendar Data API
- Spreadsheets Data API
- Gadgets API
- Talk for Developers

Solutions Gallery
- Share Your Solution
- View Solutions Gallery

Docs > Single Sign-On Service

SAML Single Sign-On (SSO) Service for Google Apps

Security Assertion Markup Language (SAML) is an XML standard that allows secure web domains to exchange user authentication and authorization data. Using SAML, an online service provider can contact a separate online identity provider to authenticate users who are trying to access secure content.

Google Apps offers a SAML-based Single Sign-On (SSO) service that provides partner companies with full control over the authorization and authentication of hosted user accounts that can access web-based applications like Gmail or Google Calendar. Using the SAML model, Google acts as the **service provider** and provides services such as Gmail and Partner Start Pages (PSP). Google partners act as **identity providers** and control usernames, passwords and other information used to identify, authenticate and authorize users for web applications that Google hosts.

It is important to note that the SSO solution only applies to web applications. If you want to enable your users to access Google services with desktop clients such as Outlook—for example, Outlook would provide POP access to Gmail—you will still need to provide your users with usable passwords and synchronize those passwords with your internal user database using the Provisioning API.

The Google Apps SSO service is based on the SAML v2.0 specifications. SAML v2.0 is supported by several widely known vendors. Visit Project Liberty's site for a list of SAML v2.0 Compliant Products.

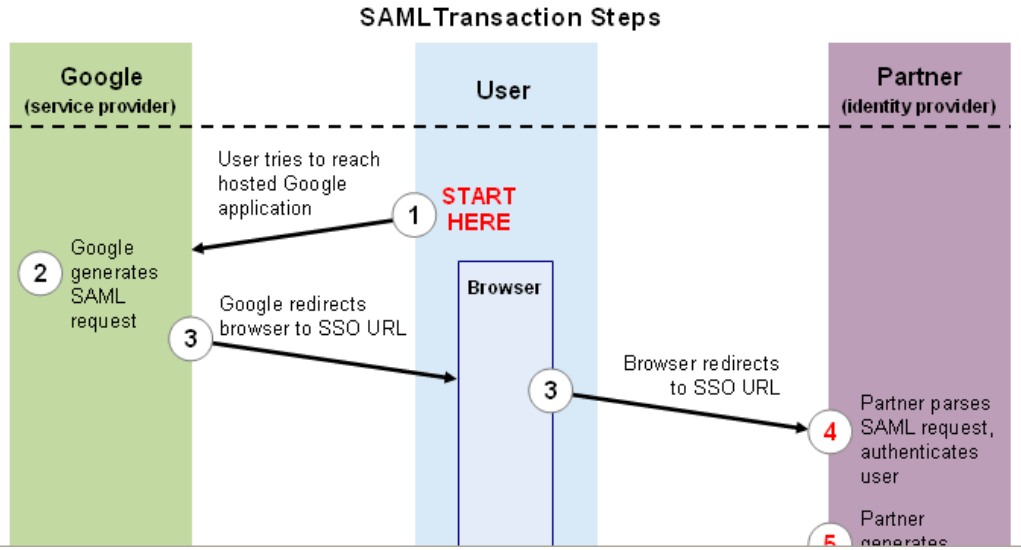
Understanding SAML-based SSO for Google Apps

The following process explains how a user logs into a hosted Google application through a partner-operated, SAML-based SSO service.

Figure 1, shown below, illustrates the process by which a user logs in to a Google Apps application, such as Gmail, through a SAML-based SSO service. The numbered list that follows the image explains each step in more detail.

Note: Before this process takes place, the partner must provide Google with the URL for its SSO service as well as the public key that Google should use to verify SAML responses.

Figure 1: Logging in to Google Apps using SAML



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Google moma next Search RS Bookmarks PageRank Check AutoLink AutoFill Send to moma next Setting

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expert saml

Search

Advanced search
Search tips

include secure content use Moma NEXT

« hide

Mountain View edit

Info for Employees
Hungry?
Inviting lunch guests
Recommendations

Survival kit

Tickets and Tech Stop online
Google locations
Expense reports

My shortcuts edit

Important: Trading window closes after market close on Friday, February 29. For FAQs, Insider Trading team, read here.

- Attempt to find an expert in the company

Welcome to Google!

The Noogler page should answer all of your questions. If that's not the case, file a ticket.

Communications

Mail and Calendar
Talk (more IM options)

Blogger in Google
Mailman *email-based lists*
Google Groups *email-based lists*
Sparrow *shared lists*
Trogdor *websites*
WebEx *web conferencing*
Wiki
Writely & Trix *shared docs*

HR

GoogleHR
gTime *time cards*
Compass
ATS and Referrals
Performance review (help)
Vacation requests
Employee handbook
Benefits

Internal Google news

Introducing Google Health and our overall health strategy

The Super Bowl of Search Trivia
- Thursday, February 28, 2008

Play-by-play account of the first-ever Search Bowl, at Search Marketing Expo

Setting Our Sites High

Announcing the public release of Google Sites

Gmail Art
- Wednesday, February 27, 2008

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Googler creates online resource for learning about U.S. Democratic delegates

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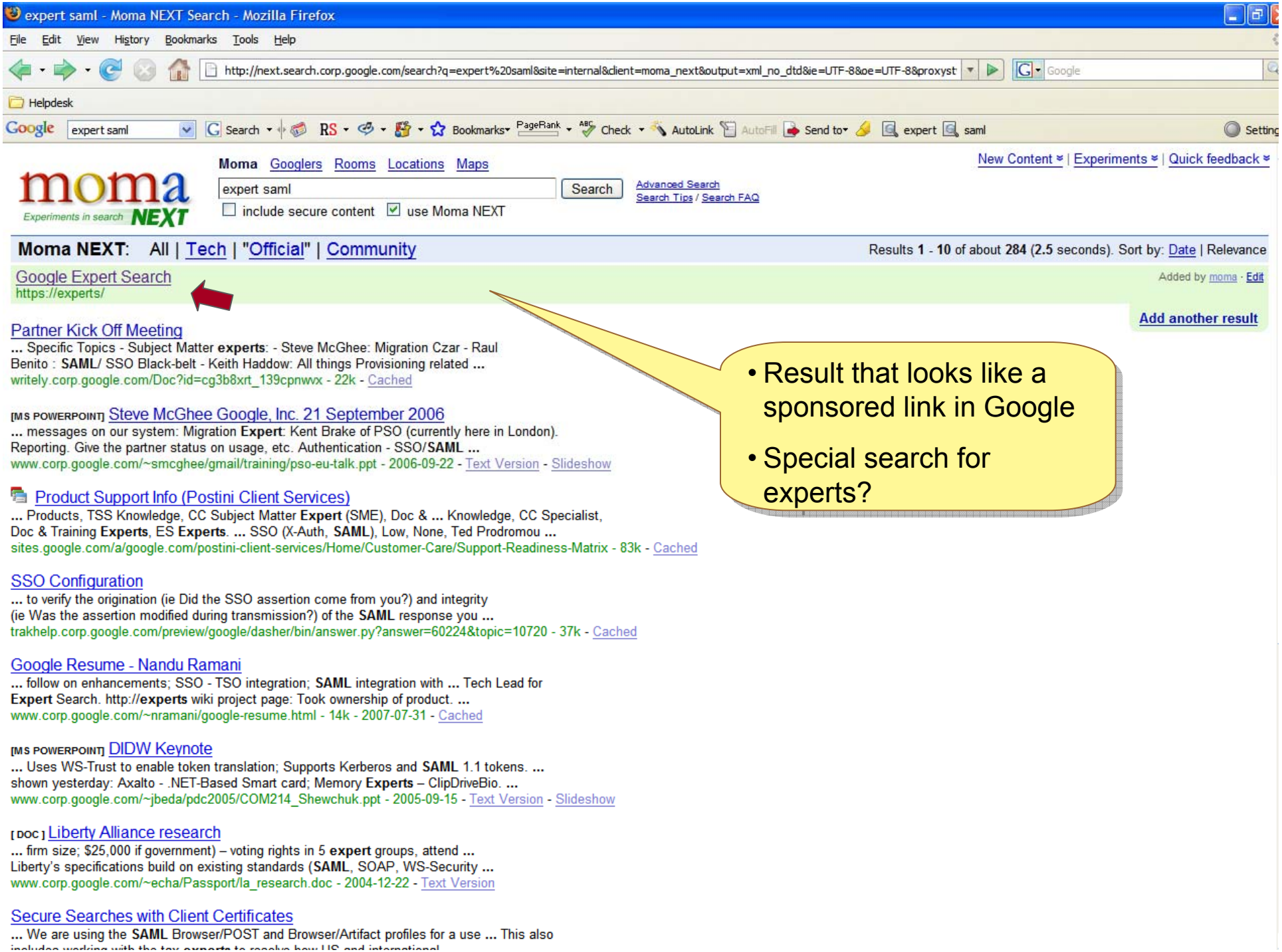
expert saml - Moma NEXT Search - Mozilla Firefox
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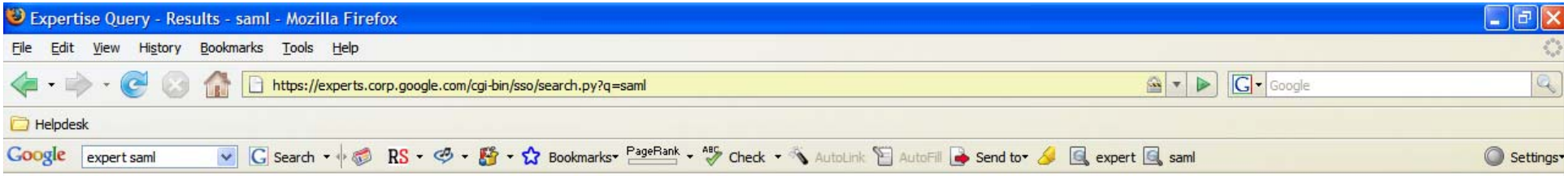
http://next.search.corp.google.com/search?q=expert%20saml&site=internal&client=moma_next&output=xml_no_dtd&ie=UTF-8&oe=UTF-8&proxyst
Helpdesk
Google expert saml Search Bookmarks PageRank Check AutoLink AutoFill Send to expert saml
moma
Experiments in search NEXT
Moma Googlers Rooms Locations Maps
expert saml
Search
include secure content
use Moma NEXT
Advanced Search
Search Tips / Search FAQ
New Content | Experiments | Quick feedback
Moma NEXT: All | Tech | "Official" | Community
Results 1 - 10 of about 284 (2.5 seconds). Sort by: Date | Relevance
Google Expert Search
https://experts/
Added by moma · Edit
Add another result
Partner Kick Off Meeting
... Specific Topics - Subject Matter experts: - Steve McGhee: Migration Czar - Raul Benito : SAML/ SSO Black-belt - Keith Haddow: All things Provisioning related ...
writely.corp.google.com/Doc?id=cg3b8xrt_139cpnwvx - 22k - Cached
[MS POWERPOINT] Steve McGhee Google, Inc. 21 September 2006
... messages on our system: Migration Expert: Kent Brake of PSO (currently here in London). Reporting. Give the partner status on usage, etc. Authentication - SSO/SAML ...
www.corp.google.com/~smcghee/gmail/training/pso-eu-talk.ppt - 2006-09-22 - Text Version - Slideshow
Product Support Info (Postini Client Services)
... Products, TSS Knowledge, CC Subject Matter Expert (SME), Doc & ... Knowledge, CC Specialist, Doc & Training Experts, ES Experts. ... SSO (X-Auth, SAML), Low, None, Ted Prodromou ...
sites.google.com/a/google.com/postini-client-services/Home/Customer-Care/Support-Readiness-Matrix - 83k - Cached
SSO Configuration
... to verify the origination (ie Did the SSO assertion come from you?) and integrity (ie Was the assertion modified during transmission?) of the SAML response you ...
trakhelp.corp.google.com/preview/google/dasher/bin/answer.py?answer=60224&topic=10720 - 37k - Cached
Google Resume - Nandu Ramani
... follow on enhancements; SSO - TSO integration; SAML integration with ... Tech Lead for Expert Search. http://experts wiki project page: Took ownership of product. ...
www.corp.google.com/~nramani/google-resume.html - 14k - 2007-07-31 - Cached
[MS POWERPOINT] DIDW Keynote
... Uses WS-Trust to enable token translation; Supports Kerberos and SAML 1.1 tokens. ... shown yesterday: Axalto - .NET-Based Smart card; Memory Experts – ClipDriveBio. ...
www.corp.google.com/~jbeda/pdc2005/COM214_Shewchuk.ppt - 2005-09-15 - Text Version - Slideshow
[DOC] Liberty Alliance research
... firm size; $25,000 if government) – voting rights in 5 expert groups, attend ... Liberty's specifications build on existing standards (SAML, SOAP, WS-Security ...
www.corp.google.com/~echa/Passport/la_research.doc - 2004-12-22 - Text Version
Secure Searches with Client Certificates
... We are using the SAML Browser/POST and Browser/Artifact profiles for a use ... This also
• Result that looks like a sponsored link in Google
• Special search for experts?



Welcome, naveenv | Sign out

moma Experts inside google saml

There are **7** people who know about **"saml"** (0.70 seconds). **Hide snippets**

Eric Haugh (ehaugh)	**Software Engineer**	Remove result	5.13
resume			
Google Resume - Eric Haugh ... Bash. I have now restarted this work, and have written a number of classes in com.google.enterprise.**saml**, including unit tests. ...			
Stephanie Hannon (hannon)	**Product Manager**	Remove result	1.62
resume			
Stephanie Hannon, Product Manager ... to Michael Champlin, to support his effort to evolve Dasher/Gmail to meet the needs of large ISPs (including migration, detailed reporting, **SAML** and more ...			
Jill Huchital (jah)	**Engineering Director**	Remove result	1.18
Dolapo Falola (dolapo)	**Software Engineer**	Remove result	1.11
resume			
Google Resume: Dolapo Falola ... secureConveration; Tivoli Federated Identity Manager - implementation of ws-trust, ws-federation, liberty 1.1, liberty 1.2, **saml** 1.0, **saml** 1.1; ...			
Vincent Jong (vincentj)	**Software QA Engineer**	Remove result	1.04
Mike Horowitz (mikeh)	**Business Product Manager**	Remove result	0.97
Nicholas Dower (ndower)	**Member of Tech Staff - Engineering**	Remove result	0.97

Expand all

Also: giad mikej pfu jad jeffstewart sergent nramani smcghee bnutter pn handler vgupta pdiwanji thor kjb mendel susan squinn

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Eric Haugh - Googler Search - Mozilla Firefox

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Helpdesk

Google expert saml Search RS Bookmarks PageRank Check AutoLink AutoFill Send to expert saml Setting

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Eric Haugh · **ehaugh**

Software Engineer

Office Location: US-SFO-SPE 4K8C
Office Phone: (650) 253-5989 call
VC Bridge: 3-253-5989

Employee ID: 4160
Employee Type: Employee
Department: Engineering
Cost Center: 625: IS Eng - CRM

blog - OKRs - resume - snippets - PDB

Manager

Camie Hackson — Engineering Manager

Tip: Visit **who/ehaugh/resume** to quickly reach ehaugh's resume. Learn more

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Organizational information

Total time: 0.0730 secs

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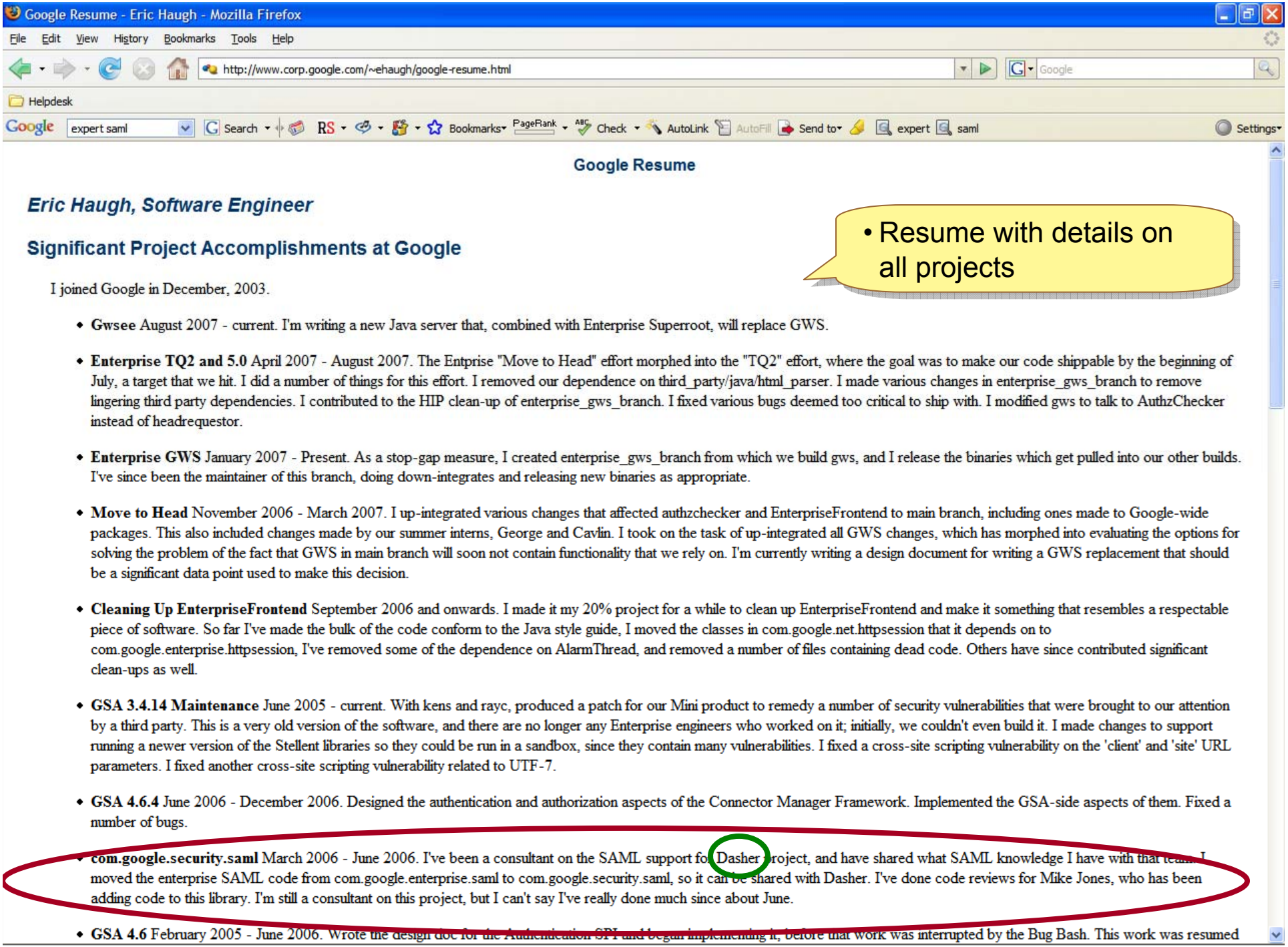
Google Resume - Eric Haugh - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://www.corp.google.com/~ehaugh/google-resume.html
Helpdesk
expert saml
Search
Bookmarks
PageRank
Check
AutoLink
AutoFill
Send to
expert
saml
Settings
Google Resume
Eric Haugh, Software Engineer
Significant Project Accomplishments at Google
I joined Google in December, 2003.
Gwsee August 2007 - current. I'm writing a new Java server that, combined with Enterprise Superroot, will replace GWS.
Enterprise TQ2 and 5.0 April 2007 - August 2007. The Entprise "Move to Head" effort morphed into the "TQ2" effort, where the goal was to make our code shippable by the beginning of July, a target that we hit. I did a number of things for this effort. I removed our dependence on third_party/java/html_parser. I made various changes in enterprise_gws_branch to remove lingering third party dependencies. I contributed to the HIP clean-up of enterprise_gws_branch. I fixed various bugs deemed too critical to ship with. I modified gws to talk to AuthzChecker instead of headrequestor.
Enterprise GWS January 2007 - Present. As a stop-gap measure, I created enterprise_gws_branch from which we build gws, and I release the binaries which get pulled into our other builds. I've since been the maintainer of this branch, doing down-integrates and releasing new binaries as appropriate.
Move to Head November 2006 - March 2007. I up-integrated various changes that affected authzchecker and EnterpriseFrontend to main branch, including ones made to Google-wide packages. This also included changes made by our summer interns, George and Cavlin. I took on the task of up-integrated all GWS changes, which has morphed into evaluating the options for solving the problem of the fact that GWS in main branch will soon not contain functionality that we rely on. I'm currently writing a design document for writing a GWS replacement that should be a significant data point used to make this decision.
Cleaning Up EnterpriseFrontend September 2006 and onwards. I made it my 20% project for a while to clean up EnterpriseFrontend and make it something that resembles a respectable piece of software. So far I've made the bulk of the code conform to the Java style guide, I moved the classes in com.google.net.httpsession that it depends on to com.google.enterprise.httpsession, I've removed some of the dependence on AlarmThread, and removed a number of files containing dead code. Others have since contributed significant clean-ups as well.
GSA 3.4.14 Maintenance June 2005 - current. With kens and rayc, produced a patch for our Mini product to remedy a number of security vulnerabilities that were brought to our attention by a third party. This is a very old version of the software, and there are no longer any Enterprise engineers who worked on it; initially, we couldn't even build it. I made changes to support running a newer version of the Stellent libraries so they could be run in a sandbox, since they contain many vulnerabilities. I fixed a cross-site scripting vulnerability on the 'client' and 'site' URL parameters. I fixed another cross-site scripting vulnerability related to UTF-7.
GSA 4.6.4 June 2006 - December 2006. Designed the authentication and authorization aspects of the Connector Manager Framework. Implemented the GSA-side aspects of them. Fixed a number of bugs.
com.google.security.saml March 2006 - June 2006. I've been a consultant on the SAML support fo Dasher project, and have shared what SAML knowledge I have with that team. I moved the enterprise SAML code from com.google.enterprise.saml to com.google.security.saml, so it can be shared with Dasher. I've done code reviews for Mike Jones, who has been adding code to this library. I'm still a consultant on this project, but I can't say I've really done much since about June.
GSA 4.6 February 2005 - June 2006. Wrote the design doc for the Authentication SPI and began implementing it, before that work was interrupted by the Bug Bash. This work was resumed
• Resume with details on all projects

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Code name for Google Apps For Your Domain See also: GAFYD

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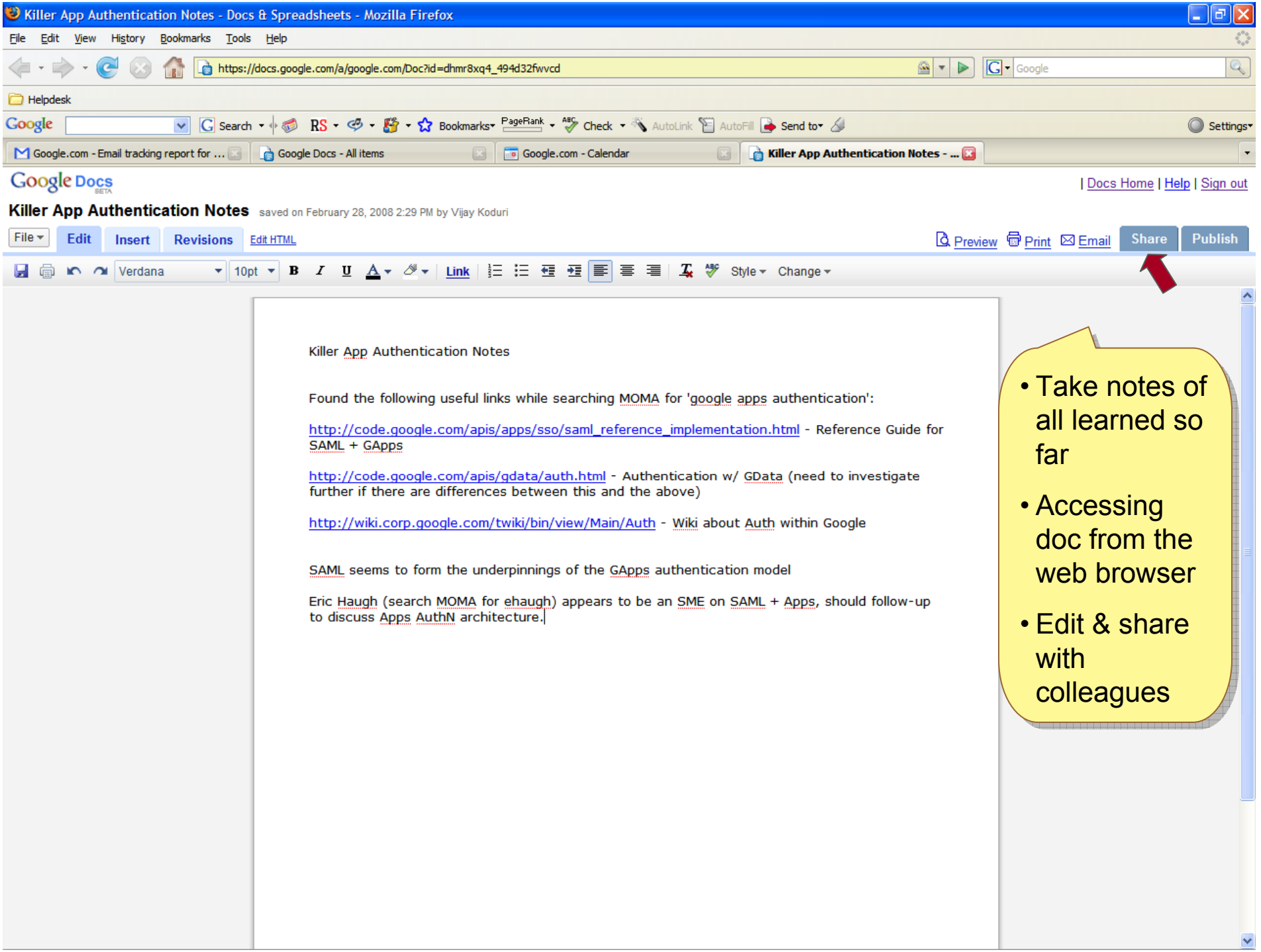
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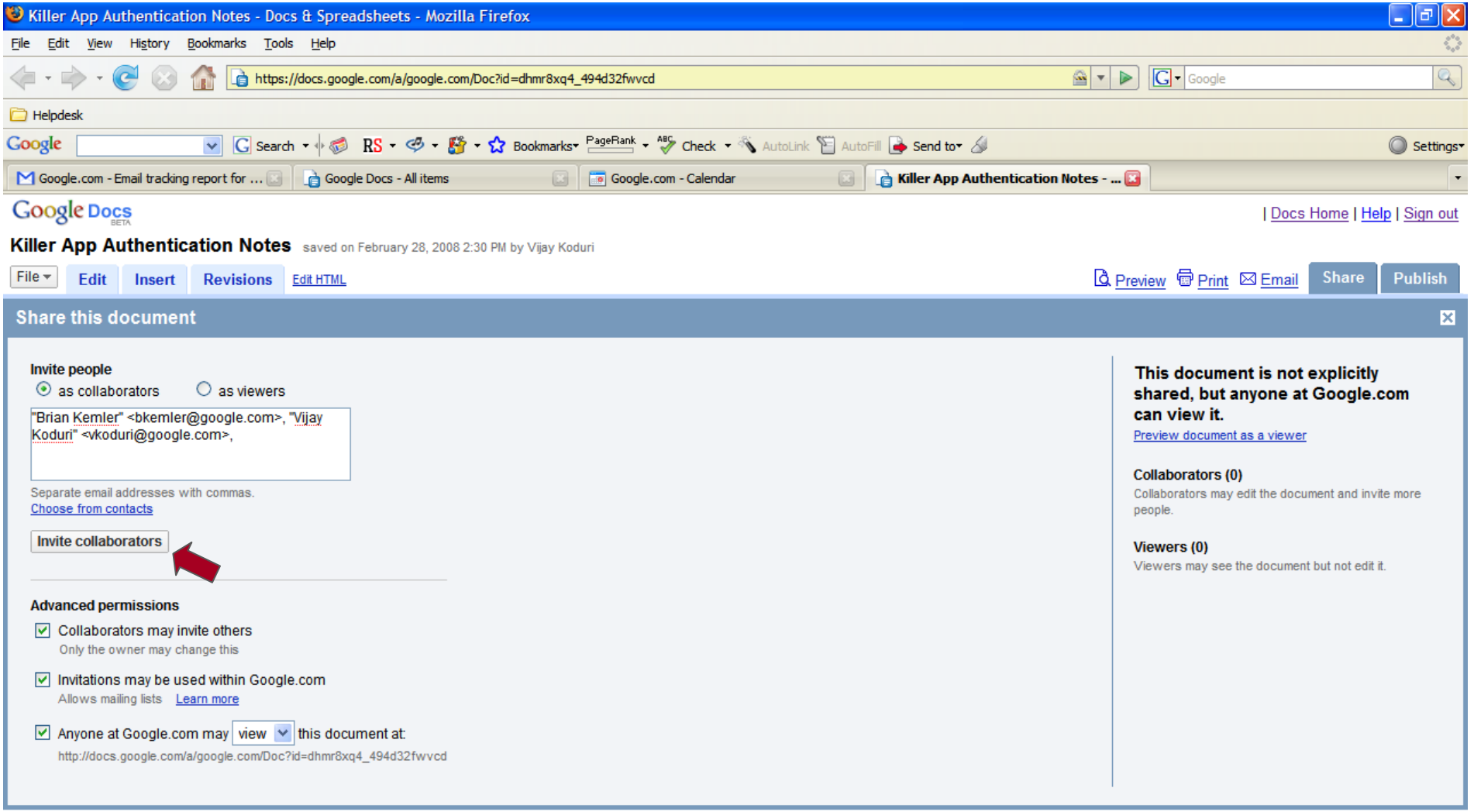
http://code.google.com/apis/apps/sso/saml_reference_implementation.html - Reference Guide for SAML + GApps
http://code.google.com/apis/gdata/auth.html - Authentication w/ GData (need to investigate further if there are differences between this and the above)
http://wiki.corp.google.com/twiki/bin/view/Main/Auth - Wiki about Auth within Google
SAML seems to form the underpinnings of the GApps authentication model
Eric Haugh (search MOMA for ehaugh) appears to be an SME on SAML + Apps, should follow-up to discuss Apps AuthN architecture.
• Take notes of all learned so far
• Accessing doc from the web browser
• Edit & share with colleagues



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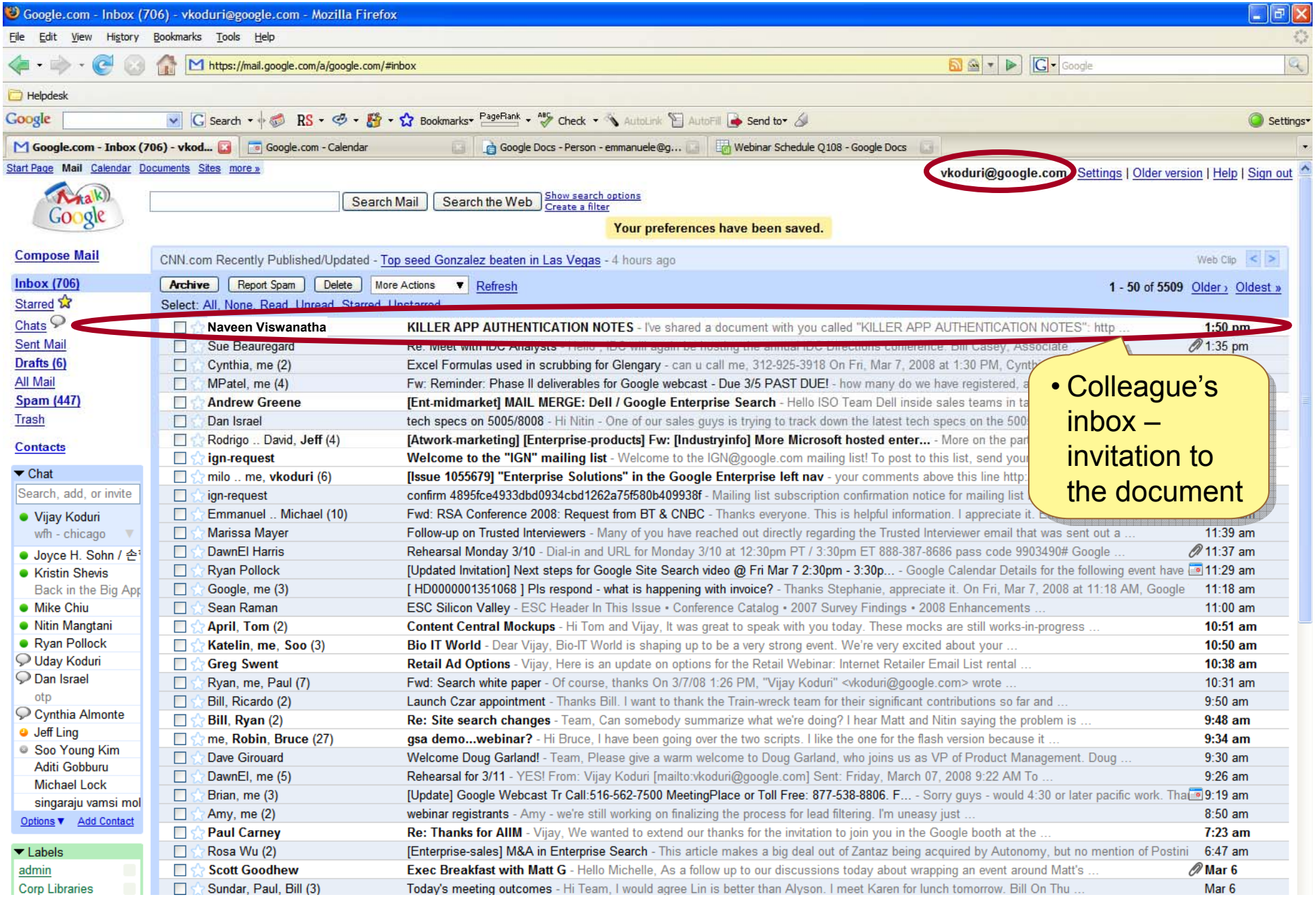

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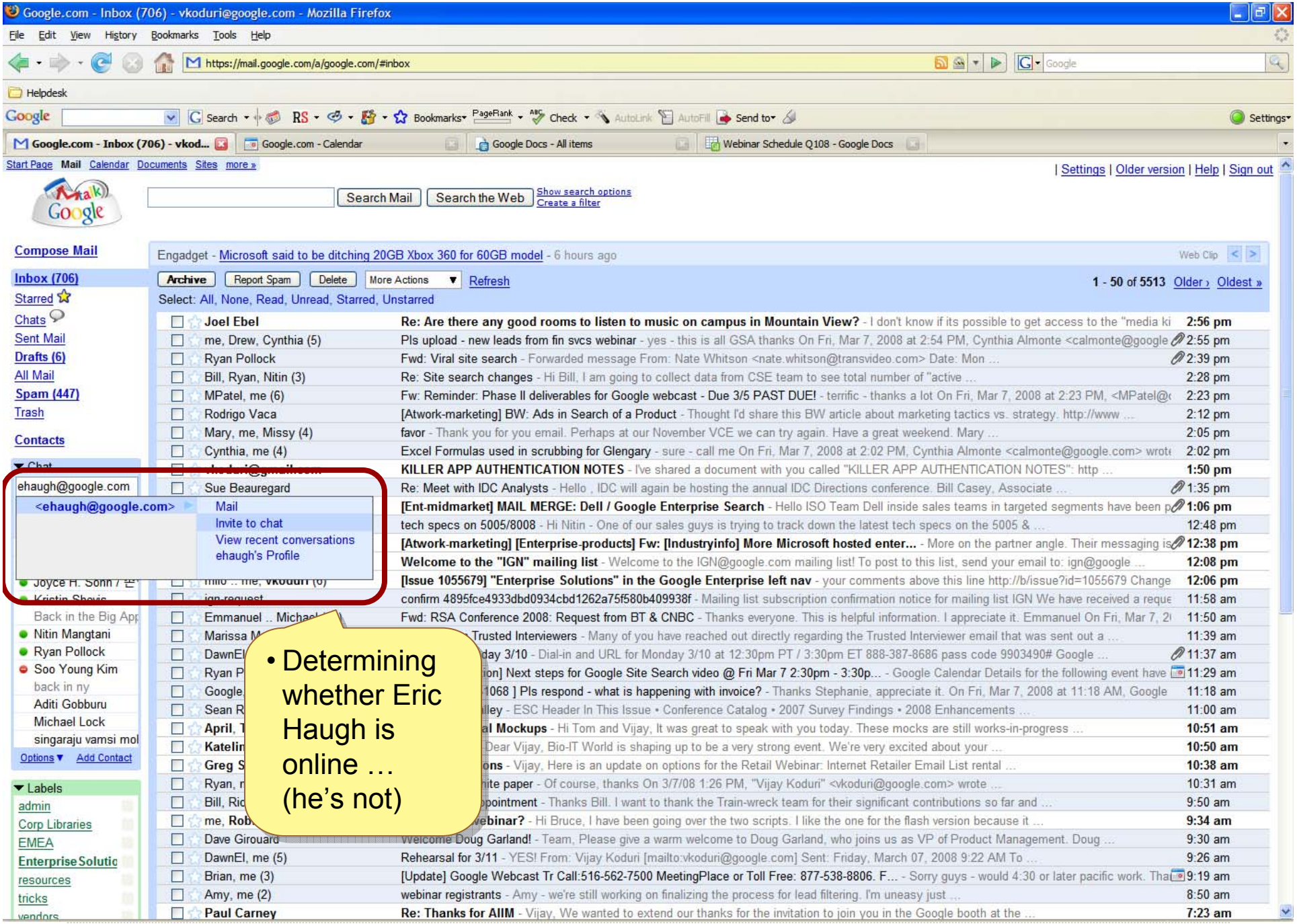

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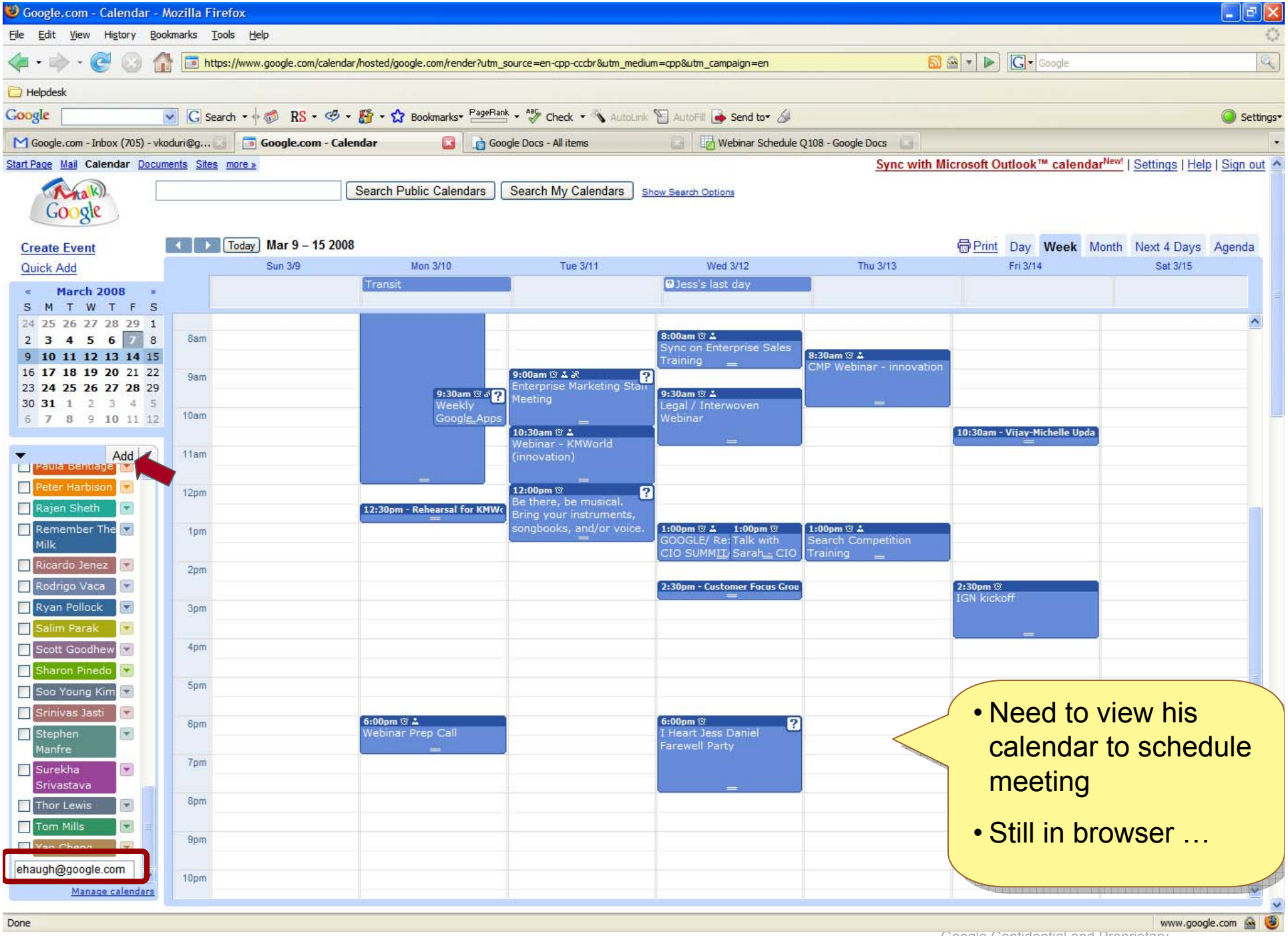

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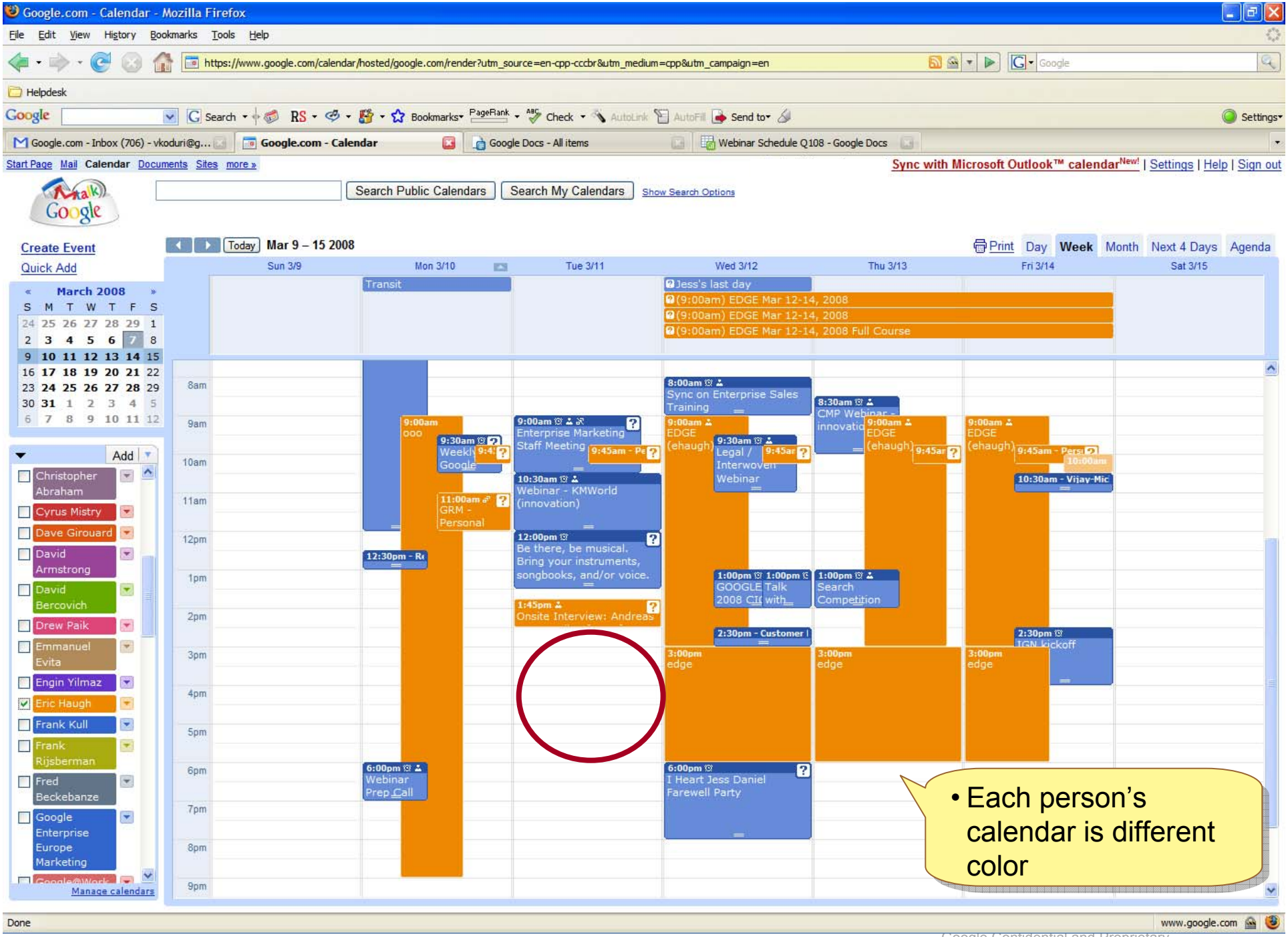

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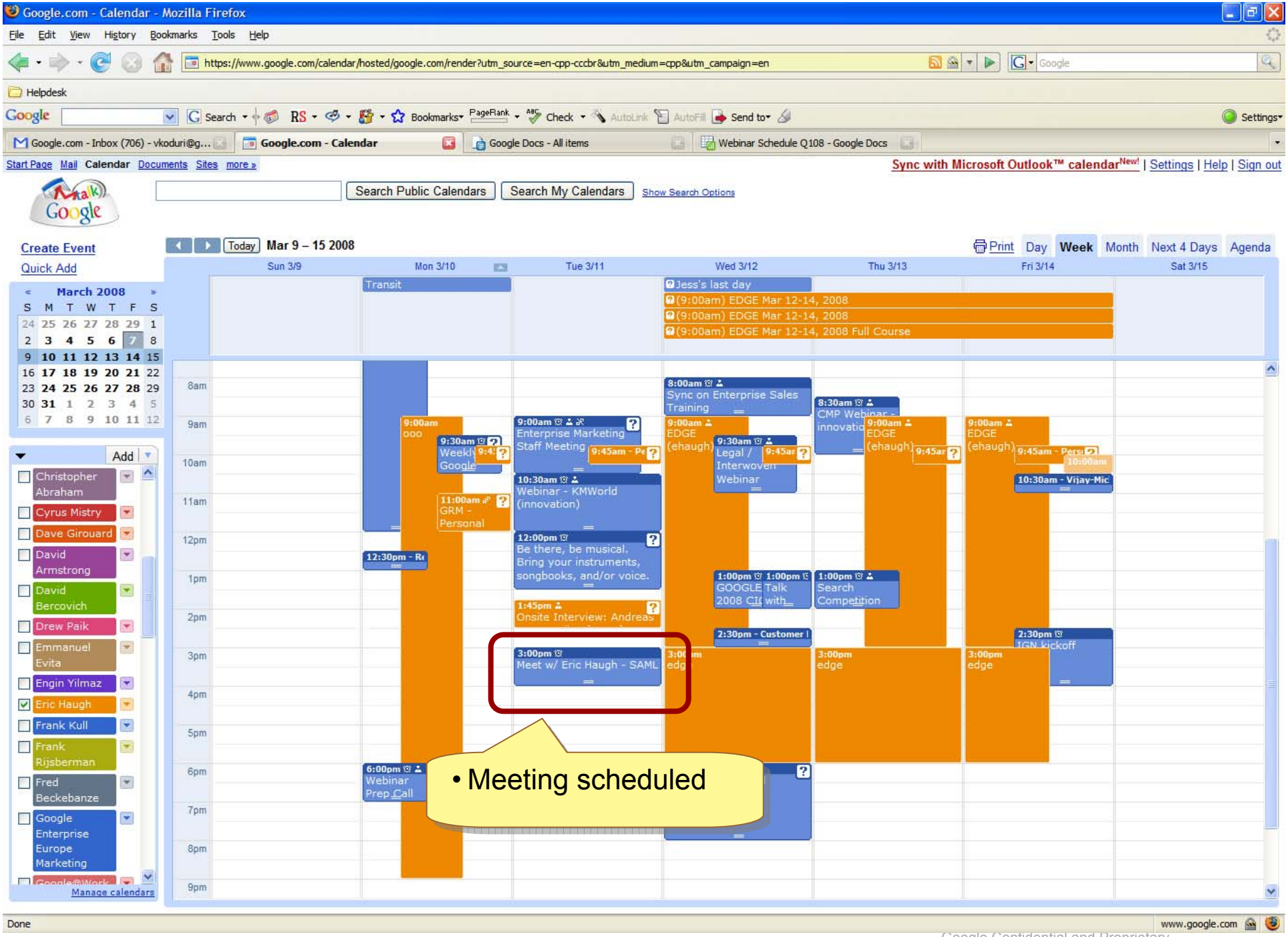

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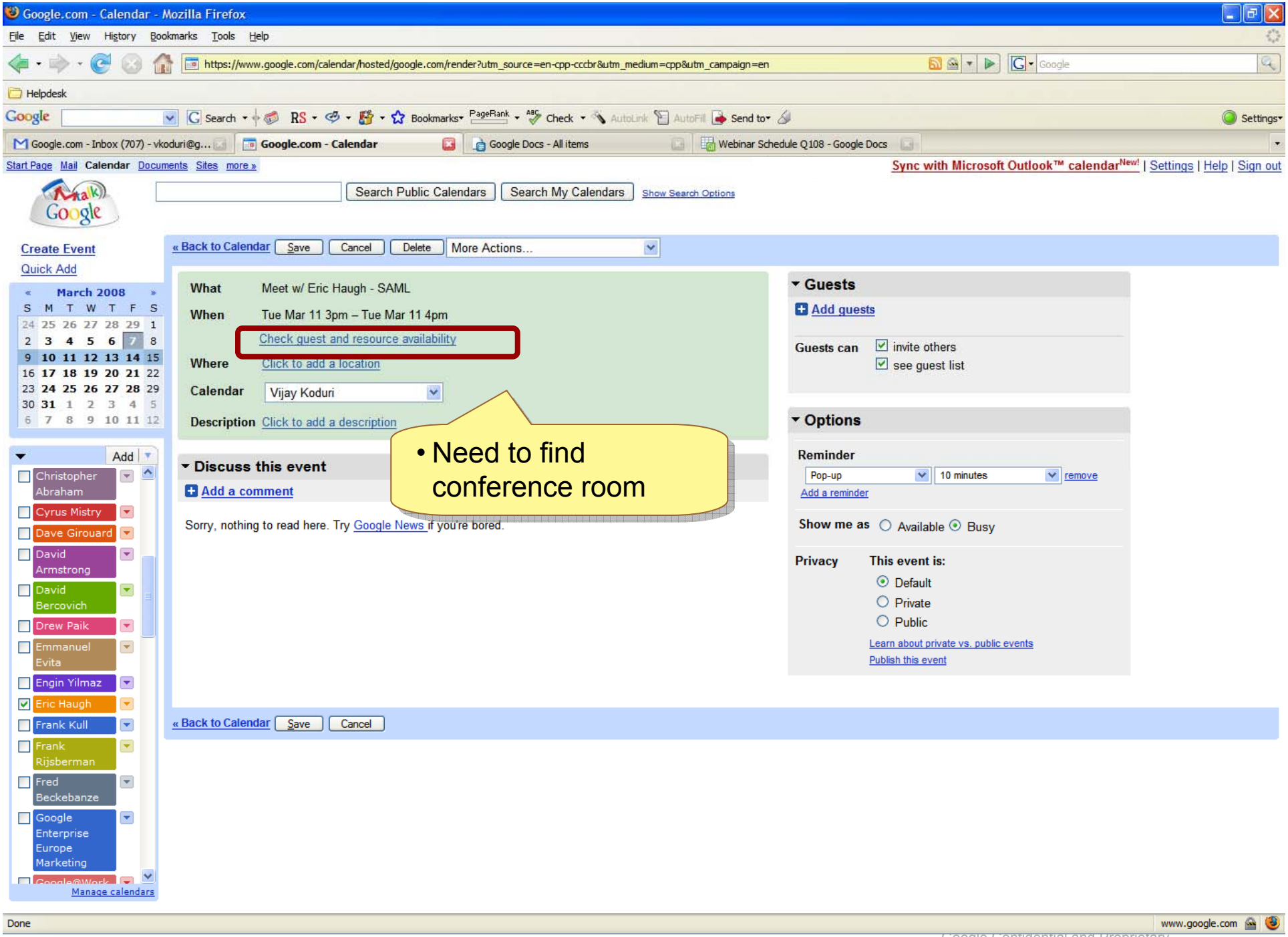

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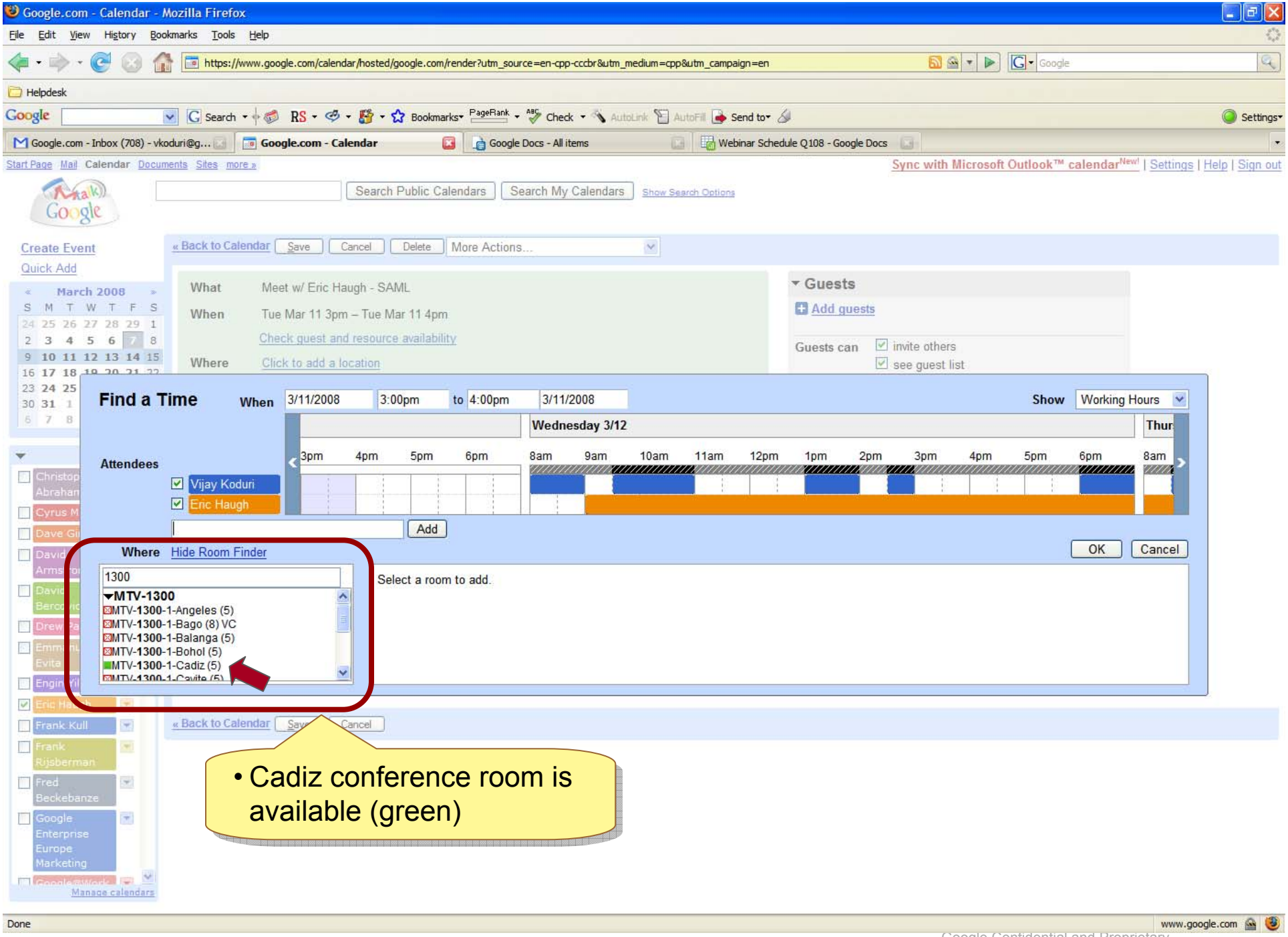

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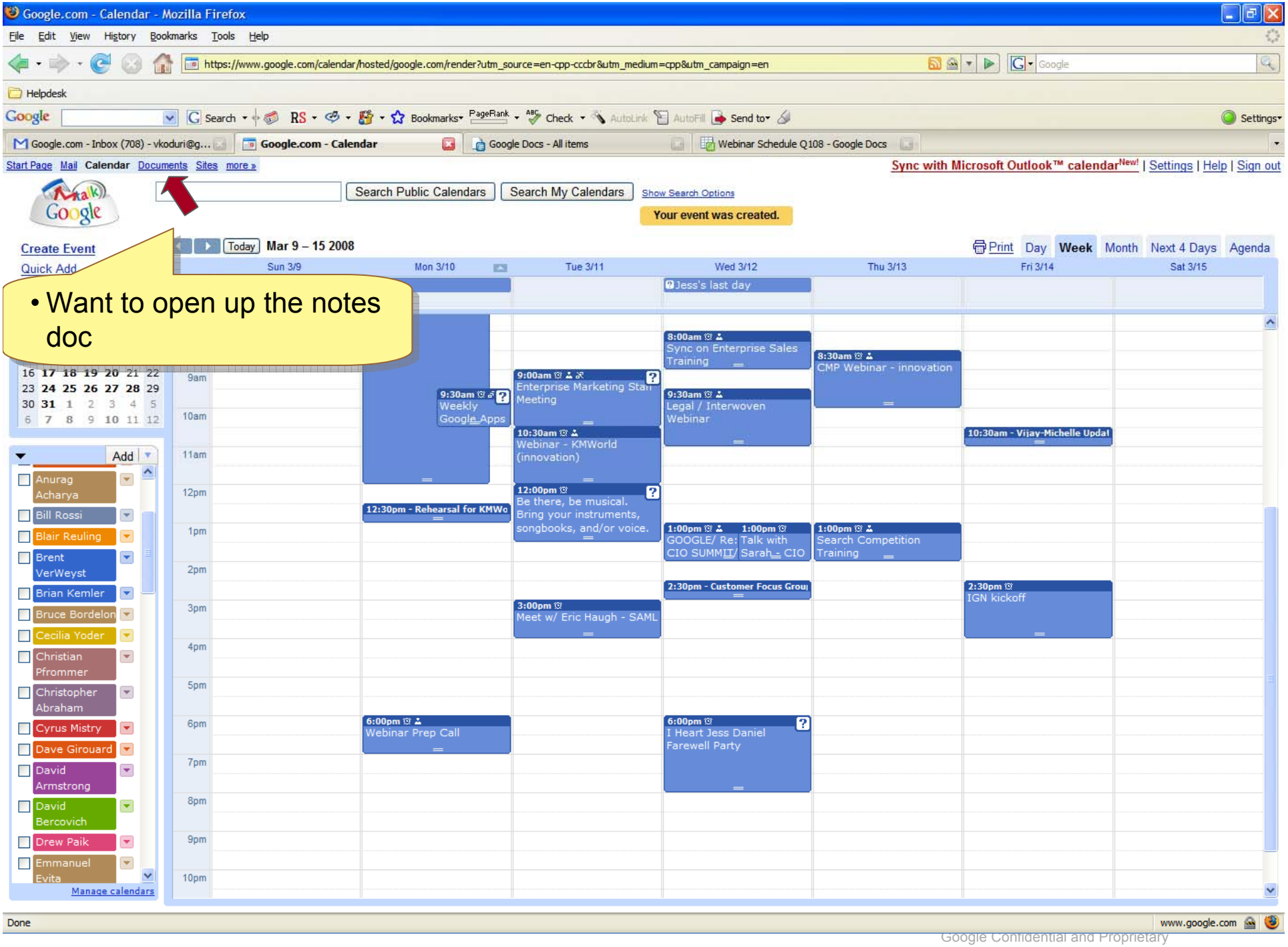

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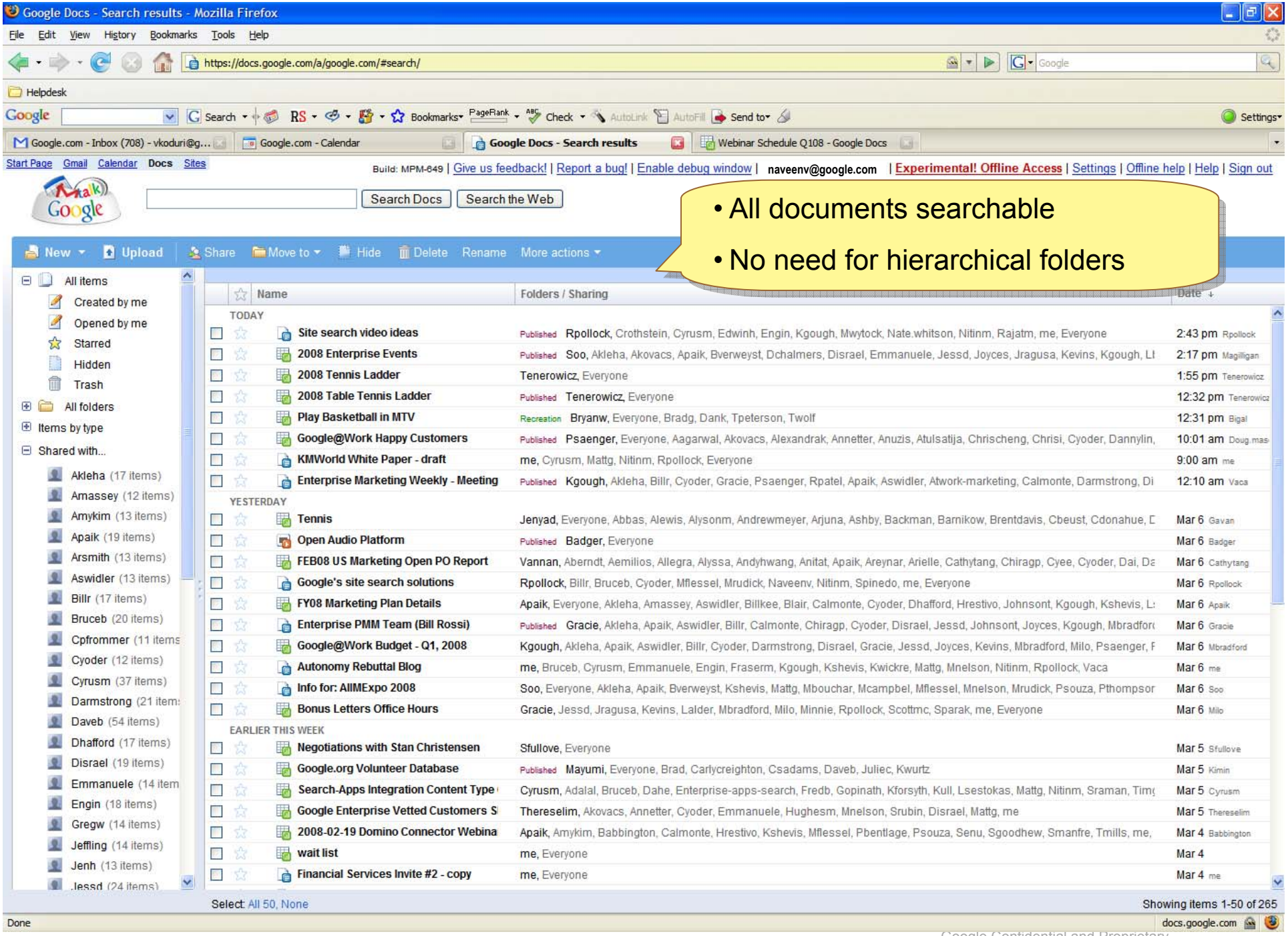

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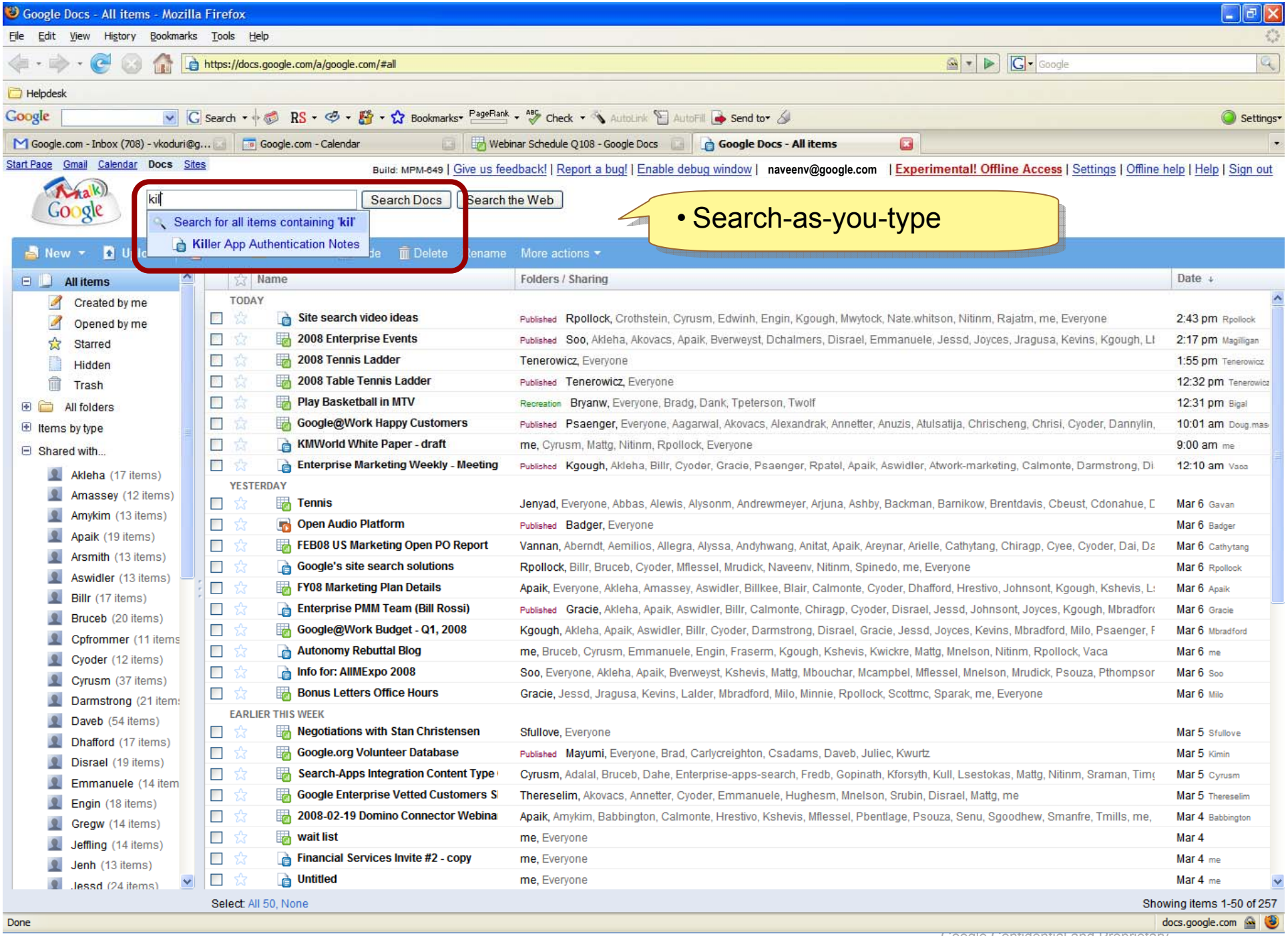

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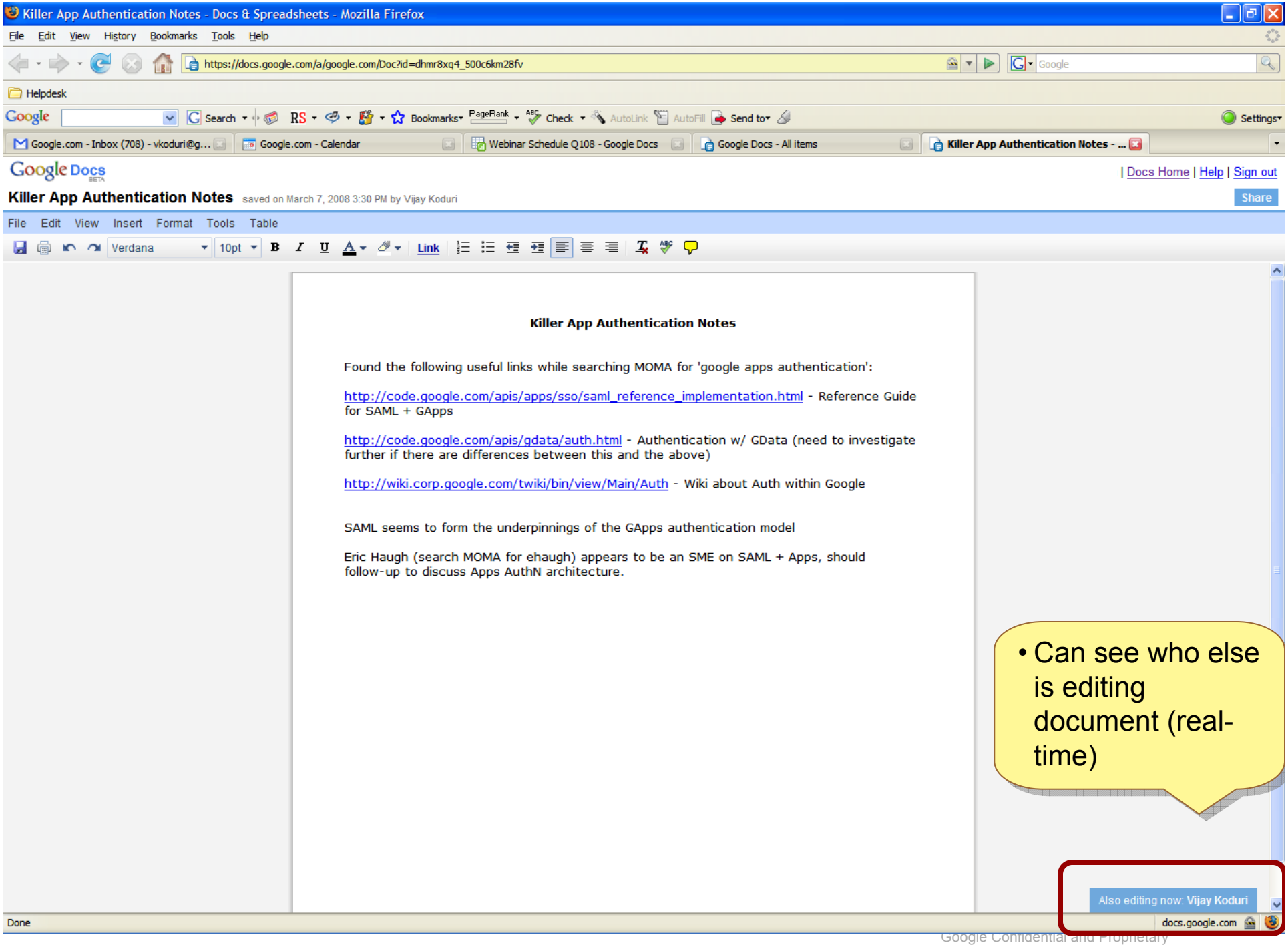

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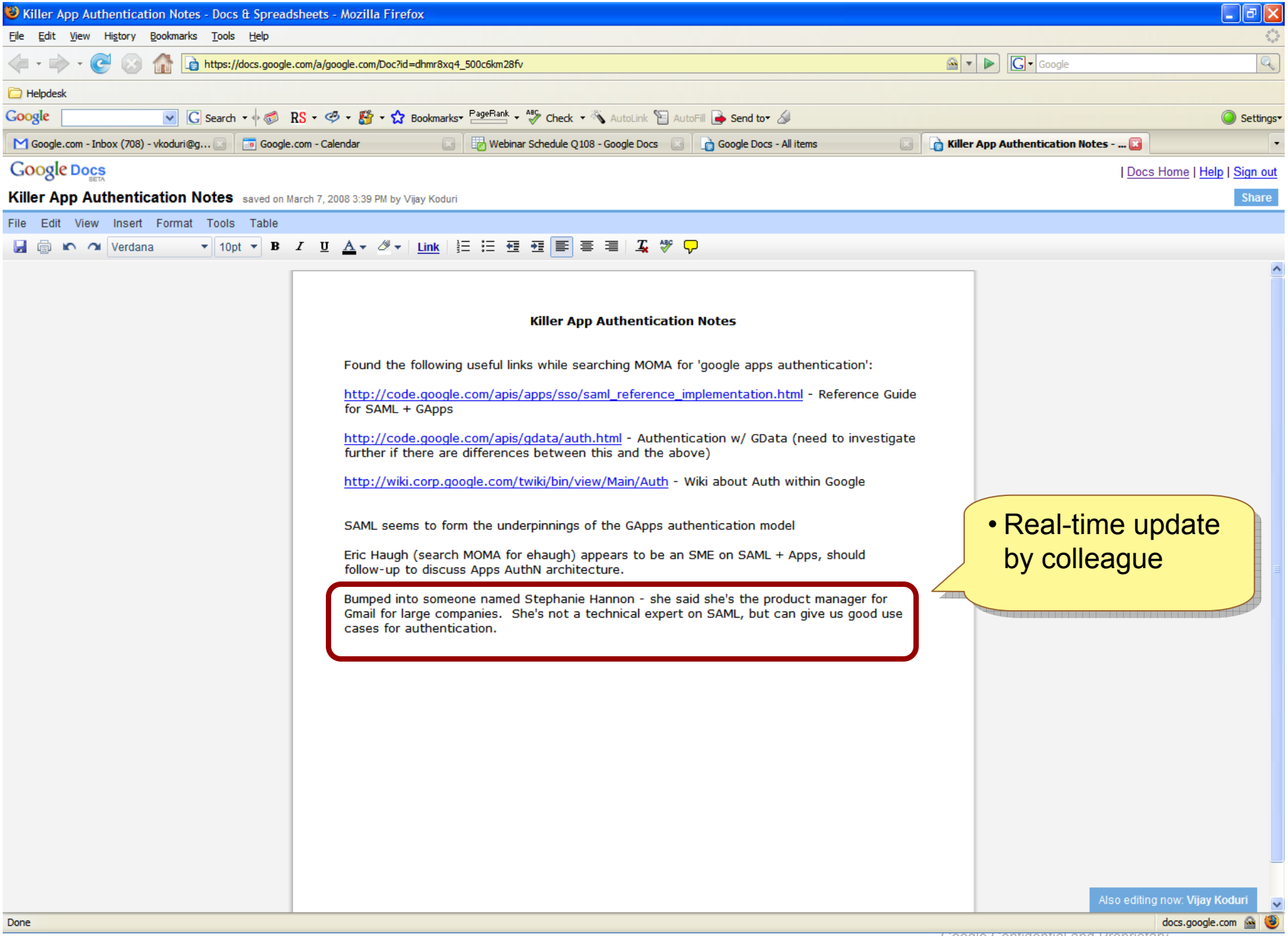

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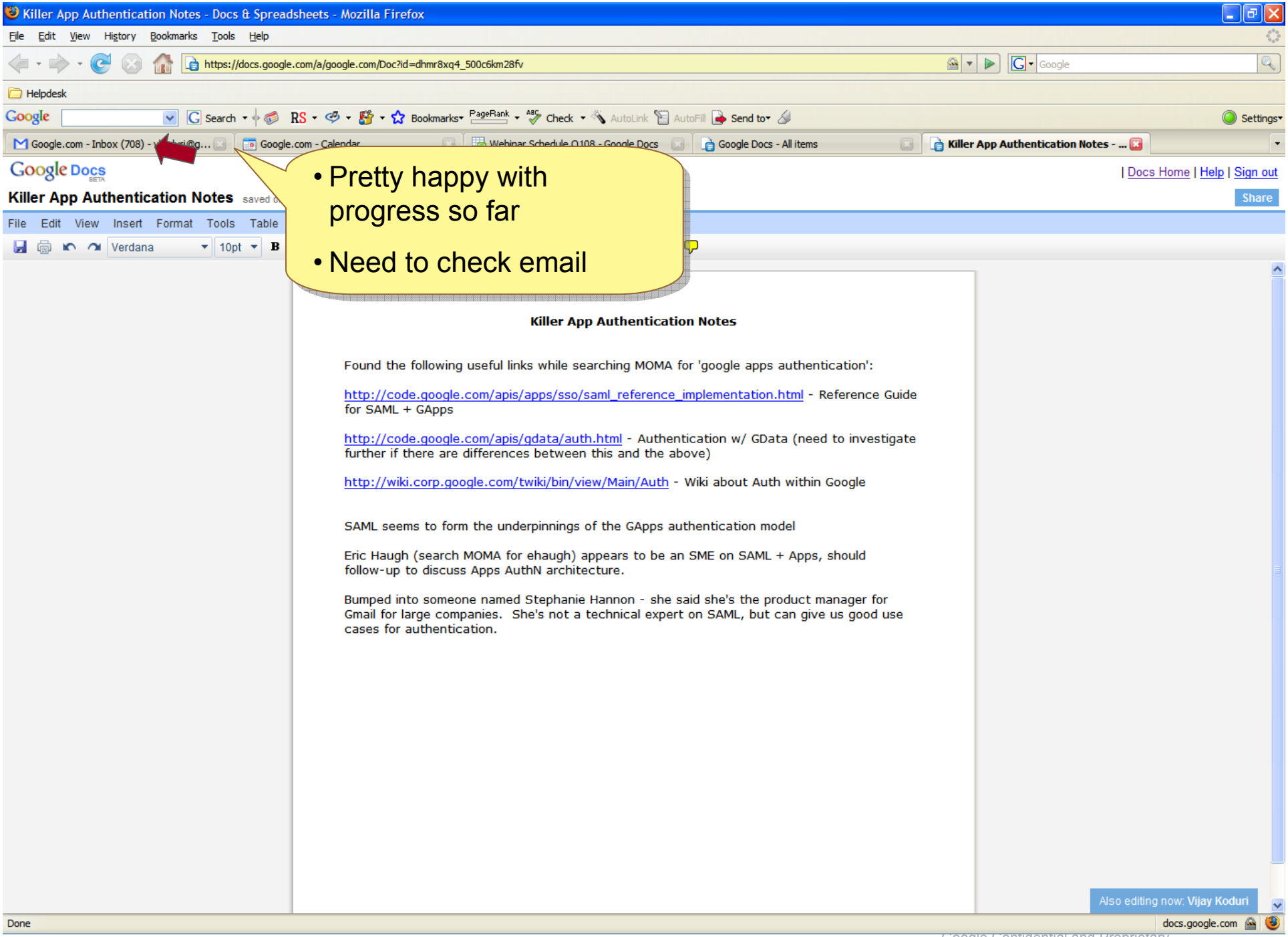

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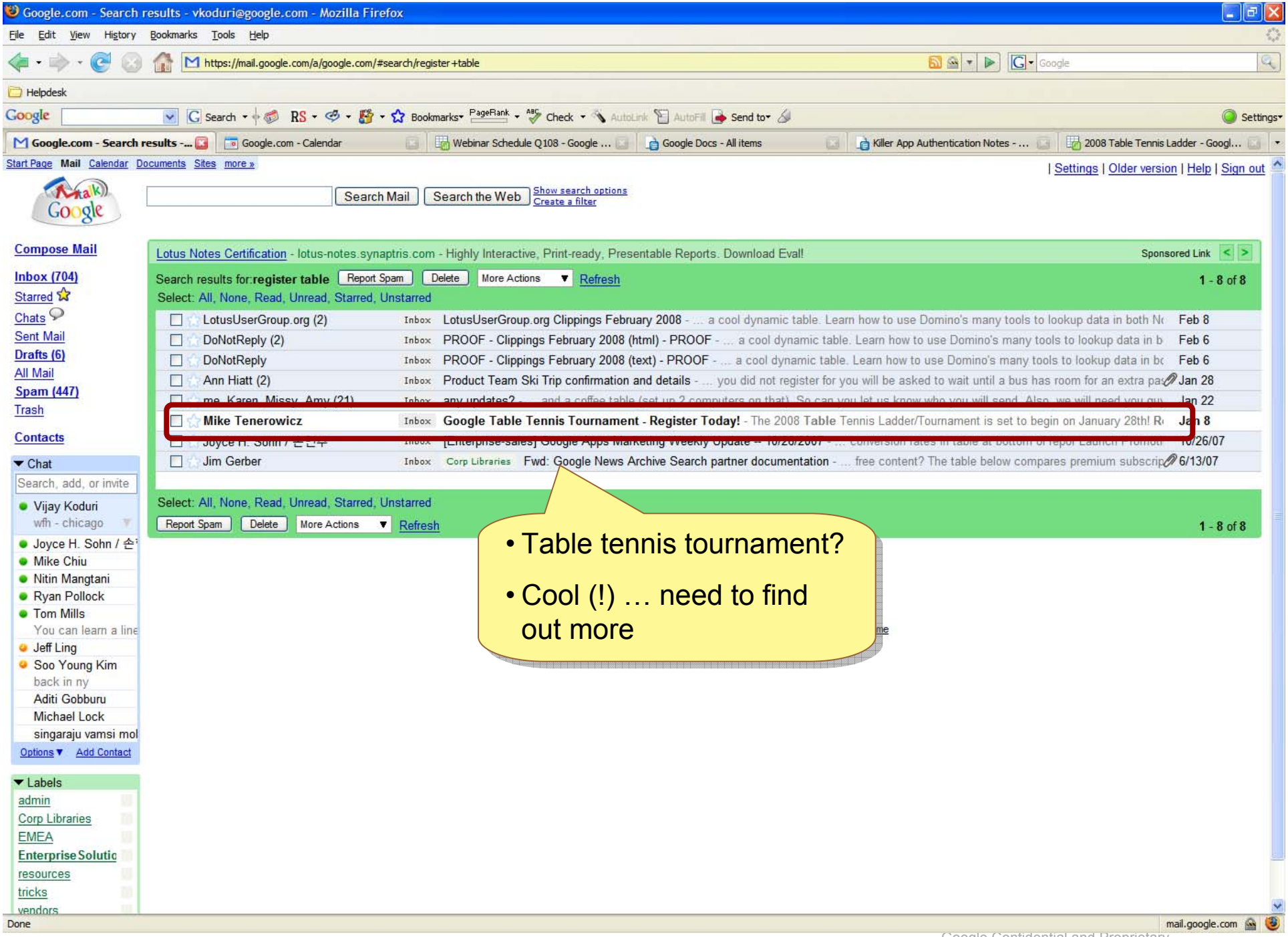

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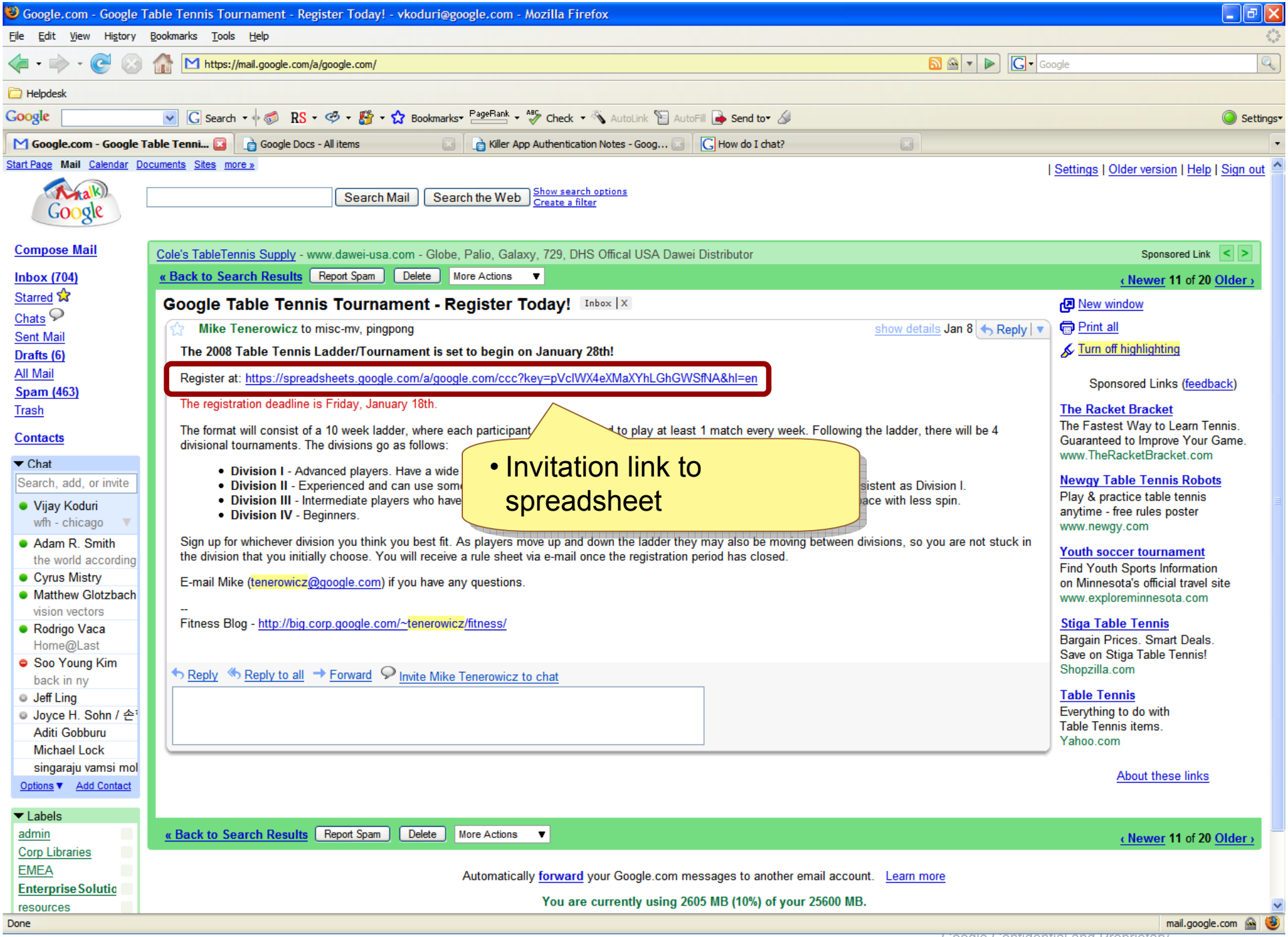

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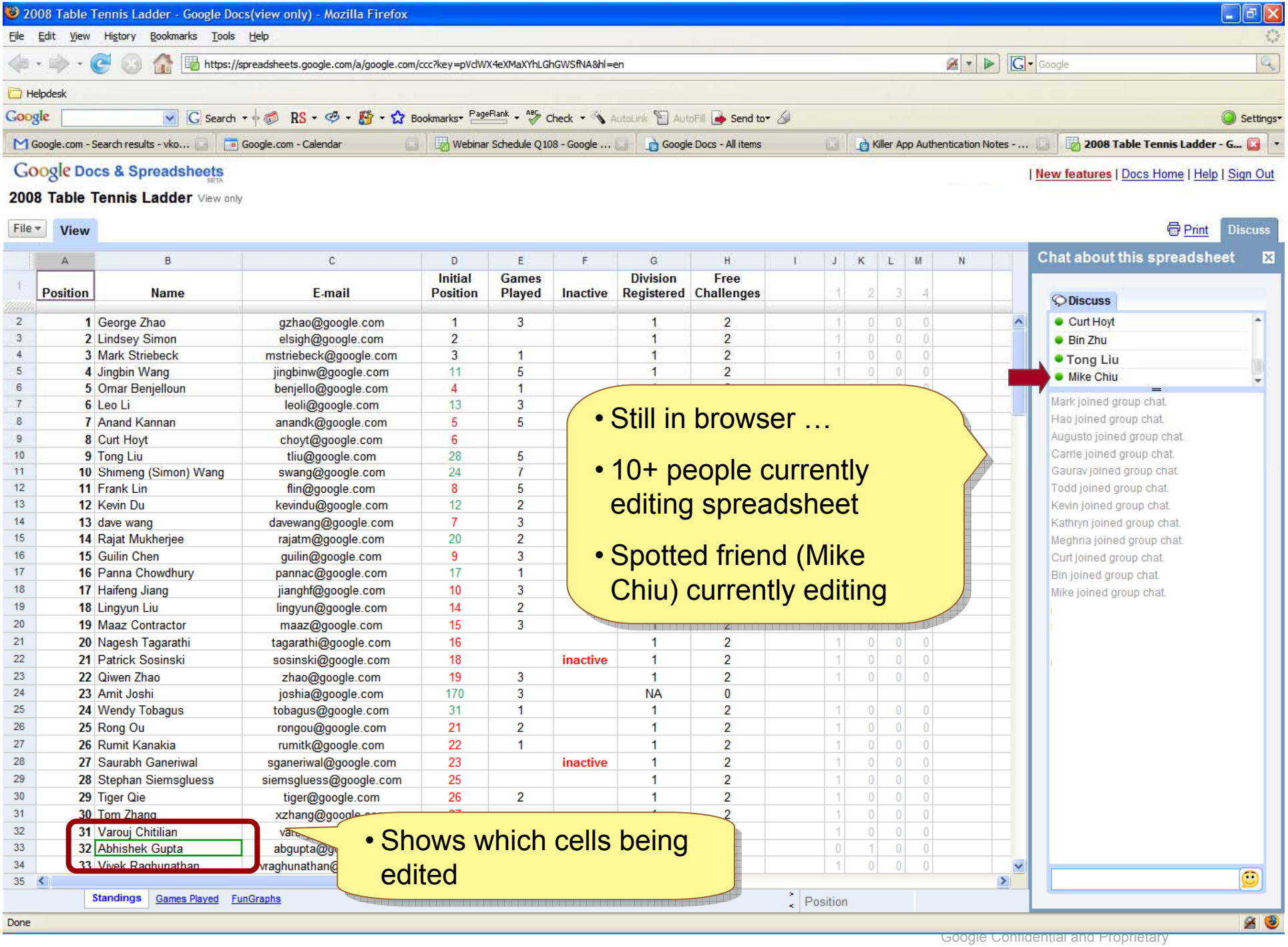

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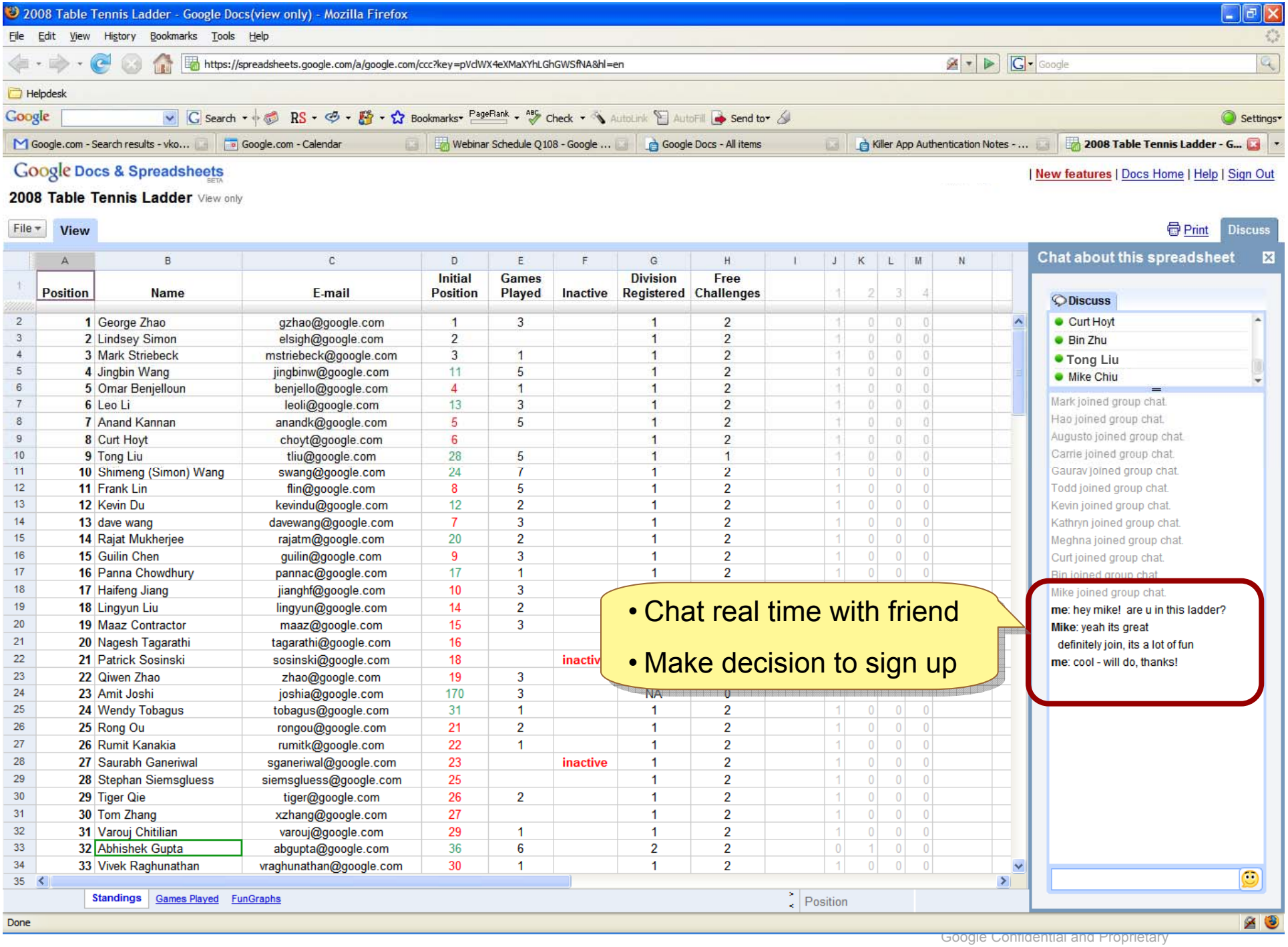

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2	Lindsey Simon	elsigh@google.com	2			1	2
3	Mark Striebeck	mstriebeck@google.com	3	1		1	2
4	Jingbin Wang	jingbinw@google.com	11	5		1	2
5	Omar Benjelloun	benjello@google.com	4	1		1	2
6	Leo Li	leoli@google.com	13	3		1	2
7	Anand Kannan	anandk@google.com	5	5		1	2
8	Curt Hoyt	choyt@google.com	6			1	2
9	Tong Liu	tliu@google.com	28	5		1	1
10	Shimeng (Simon) Wang	swang@google.com	24	7		1	2
11	Frank Lin	flin@google.com	8	5		1	2
12	Kevin Du	kevindu@google.com	12	2		1	2
13	dave wang	davewang@google.com	7	3		1	2
14	Rajat Mukherjee	rajatm@google.com	20	2		1	2
15	Guilin Chen	guilin@google.com	9	3		1	2
16	Panna Chowdhury	pannac@google.com	17	1		1	2
17	Haifeng Jiang	jianghf@google.com	10	3			
18	Lingyun Liu	lingyun@google.com	14	2			
19	Maaz Contractor	maaz@google.com	15	3			
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21	Patrick Sosinski	sosinski@google.com	18		inactiv		
22	Qiwen Zhao	zhao@google.com	19	3			
23	Amit Joshi	joshia@google.com	170	3		NA	0
24	Wendy Tobagus	tobagus@google.com	31	1		1	2
25	Rong Ou	rongou@google.com	21	2		1	2
26	Rumit Kanakia	rumitk@google.com	22	1		1	2
27	Saurabh Ganeriwal	sganeriwal@google.com	23		inactive	1	2
28	Stephan Siemsgluess	siemsgluess@google.com	25			1	2
29	Tiger Qie	tiger@google.com	26	2		1	2
30	Tom Zhang	xzhang@google.com	27			1	2
31	Varouj Chitilian	varouj@google.com	29	1		1	2
32	Abhishek Gupta	abgupta@google.com	36	6		2	2
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Innovation = Discovery + Collaboration
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Innovation = discovery + collaboration

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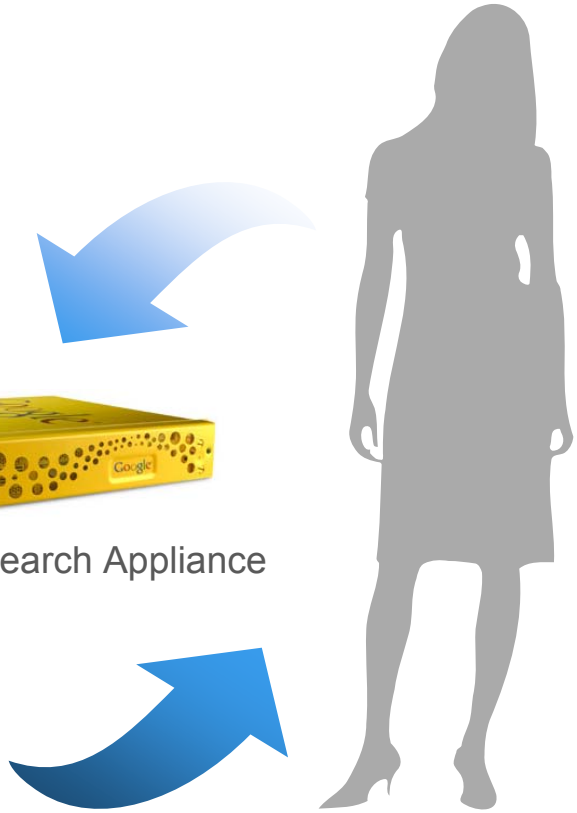

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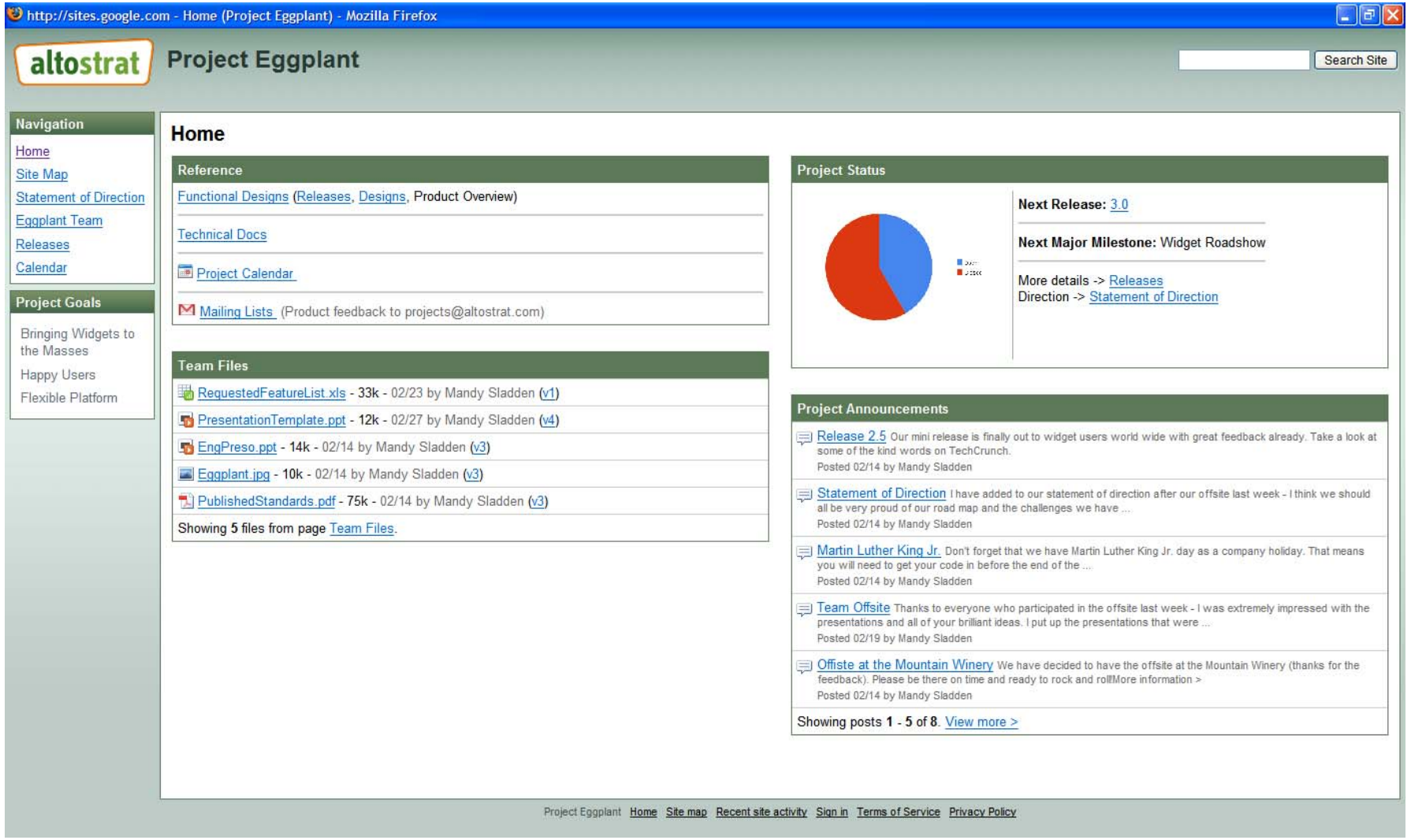

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