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December 4, 2009
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Geoffrey Bilder
Director of Strategic Initiatives

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Geoffrey Bilder
Director of Strategic Initiatives

Author identity: The Shape of the Problem

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Director of Strategic Initiatives
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Why do we care?

cross ref

THE
SCHOLARLY RECORD
(PRODUCED BY CROSSREF)
SAYS
STEREO
THE ACADEMICS

Trust

...belief in the veracity, good faith, and honesty of another party, with respect to a transaction that involves some risk.

Phil Wendly, "Digital Identity", ISBN 978-0-596-00878-9

Trust

...belief in the veracity, good faith, and honesty of another party, with respect to a transaction that involves some risk.

Phil Wendly, "Digital Identity", ISBN 978-0-596-00878-9

Provenance

the place of origin or earliest known history of something *: an orange rug of Iranian provenance.*

• the beginning of something's existence; something's origin *: they try to understand the whole universe, its provenance and fate.*

See note at **origin** .

• a record of ownership of a work of art or an antique, used as a guide to authenticity or quality *: the manuscript has a distinguished provenance.*

crossref

Brand

Is it relevant?
Is it good?
Is it important?

Brand

Is it relevant?
Is it good?
Is it important?

provenance infrastructure

Brand

Is it relevant?
Is it good?
Is it important?

* What is it?

* Where can I get it?

* What refers to it?

*What does it refer to?

* What has been done to it?

* Who provides stewardship of it?

* Who do we credit it to?

* What are their credentials?

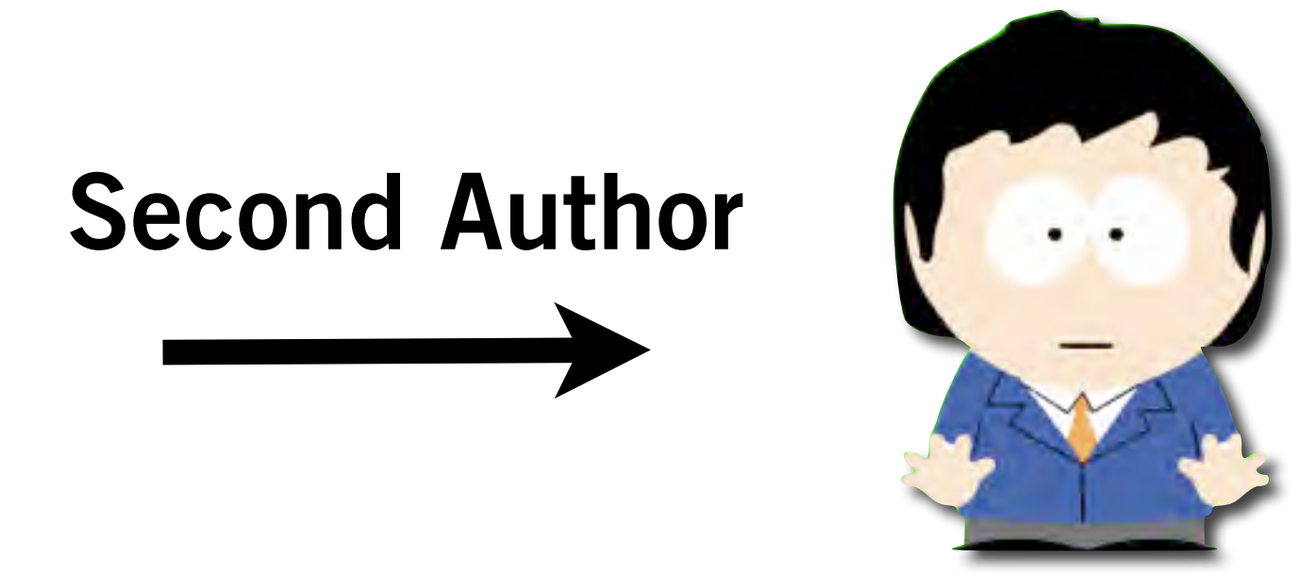
provenance infrastructure

Given a work, tell me who is responsible for it and describe the nature of that responsibility.

crossref

First Author

First Author



First Author

Editor

Second Author

```
public class Main {

    private MetadataGrabber grabber = new MetadataGrabber();

    public static void printUsage() {
        System.err.println("Usage: pdfmark" +
                " [[-f, --force]]" +
                " [[-x, --xmp-file] xmp_file]" +
                " [[-o, --output-dir=?] output_dir] " +
                " [[-d, --dot] dot]" +
                " [[-s, --search-for-dot]]" +
                " pdf_files");
    }

    public static void main(String[] args) {
        new Main(args);
    }

    private void shutDown() {
        grabber.shutDown();
    }

    public Main(String[] args) {
        if (args.length == 0) {
            printUsage();
            System.exit(2);
        }

        CmdLineParser parser = new CmdLineParser();
        Option provideXmpOp = parser.addStringOption('x', "xmp-file");
        Option overwriteOp = parser.addBooleanOption('f', "force");
        Option outputOp = parser.addStringOption('o', "output-dir");
        Option dotOp = parser.addStringOption('d', "dot");
        Option searchOp = parser.addBooleanOption('s', "search-for-dot");

        try {
            parser.parse(args);
        } catch (CmdLineParser.OptionException e) {
            printUsage();
            System.exit(2);
        }
```

Programmer

crossref

Programmer

Compiler

crossref

Given a name, tell be what works they have contributed to and describe the nature of the contributions.

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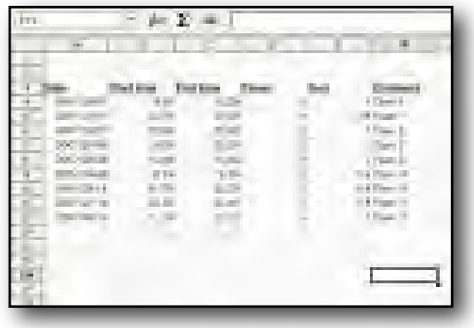
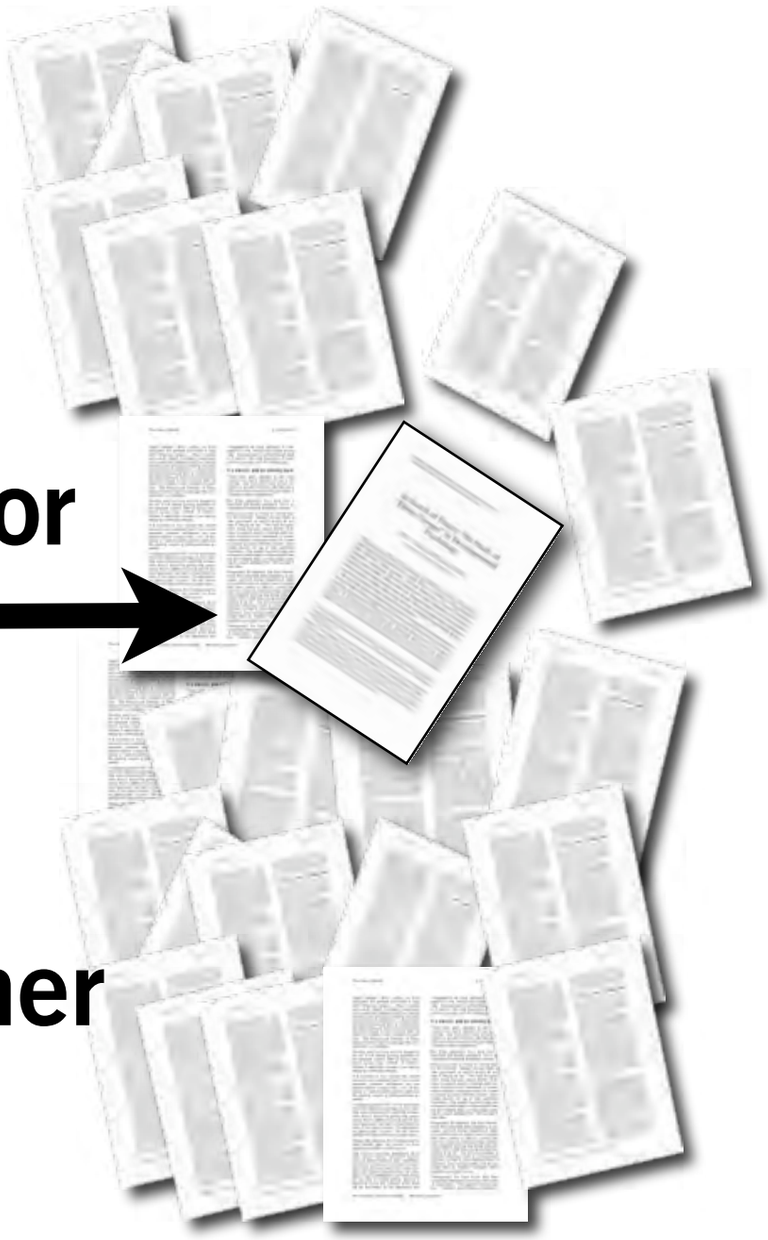


Compiler

Reviewer

Author



Programmer

Given a name, tell me what other names are “related” to the first name and tell me the nature of that relationship.

crossref

Edited By

Colleague

Co-Author

Co-Developer

crossref

Stakeholders?

- Researchers
- Libraries
- Institutions
- Funding agencies
- Intermediaries
- Publishers

So what are the problems?

“Security & Access Control”

vs.

“Knowledge Discovery”

Geoffrey Whitson Bilder
Bilder, Geoffrey Whitson
Geoffrey W. Bilder
Bilder, Geoffrey W.
Bilder, G. W.
G. W. Bilder
Geoffrey Bilder
Bilder, Geoffrey
G. Bilder
Bilder, G.

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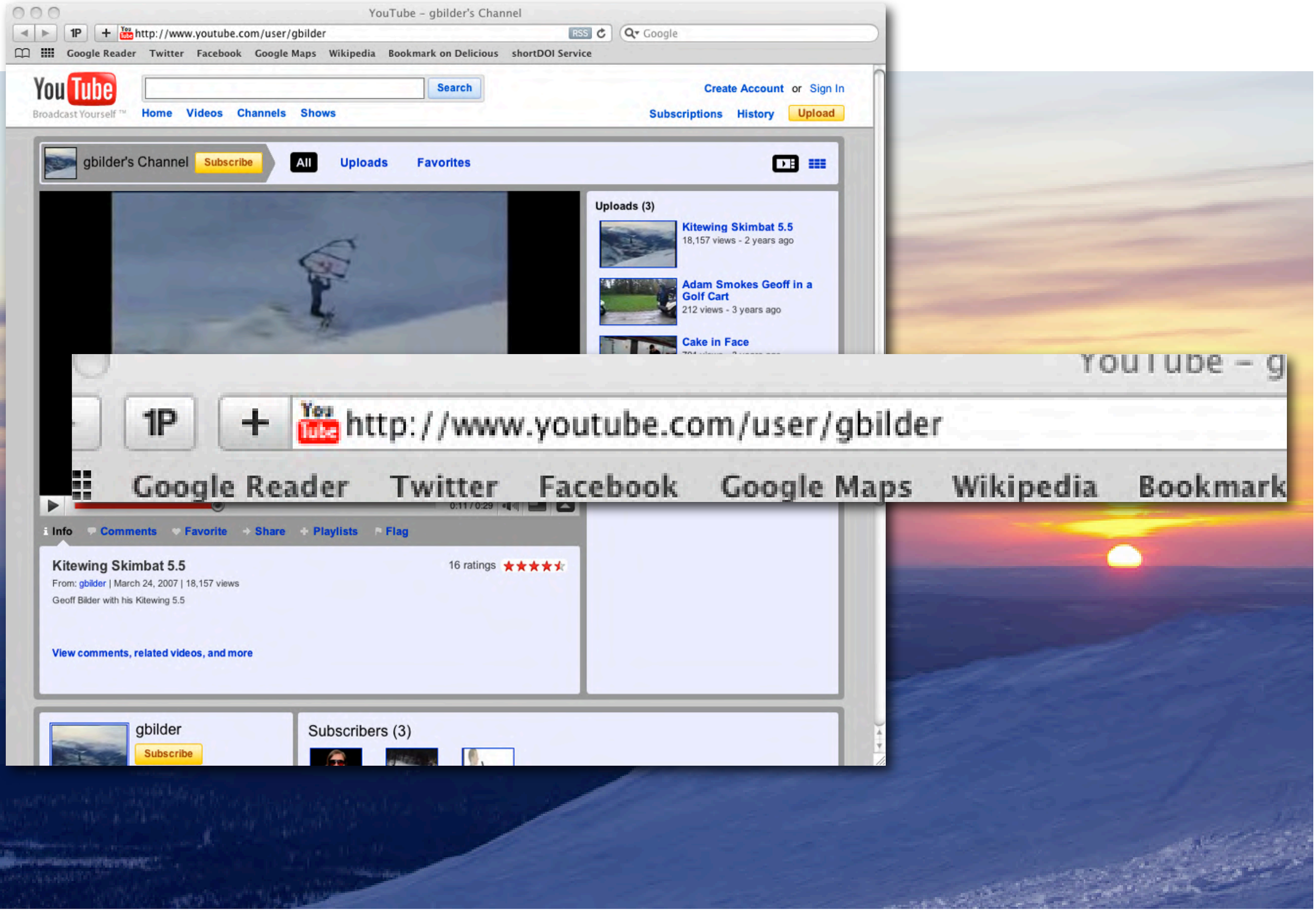
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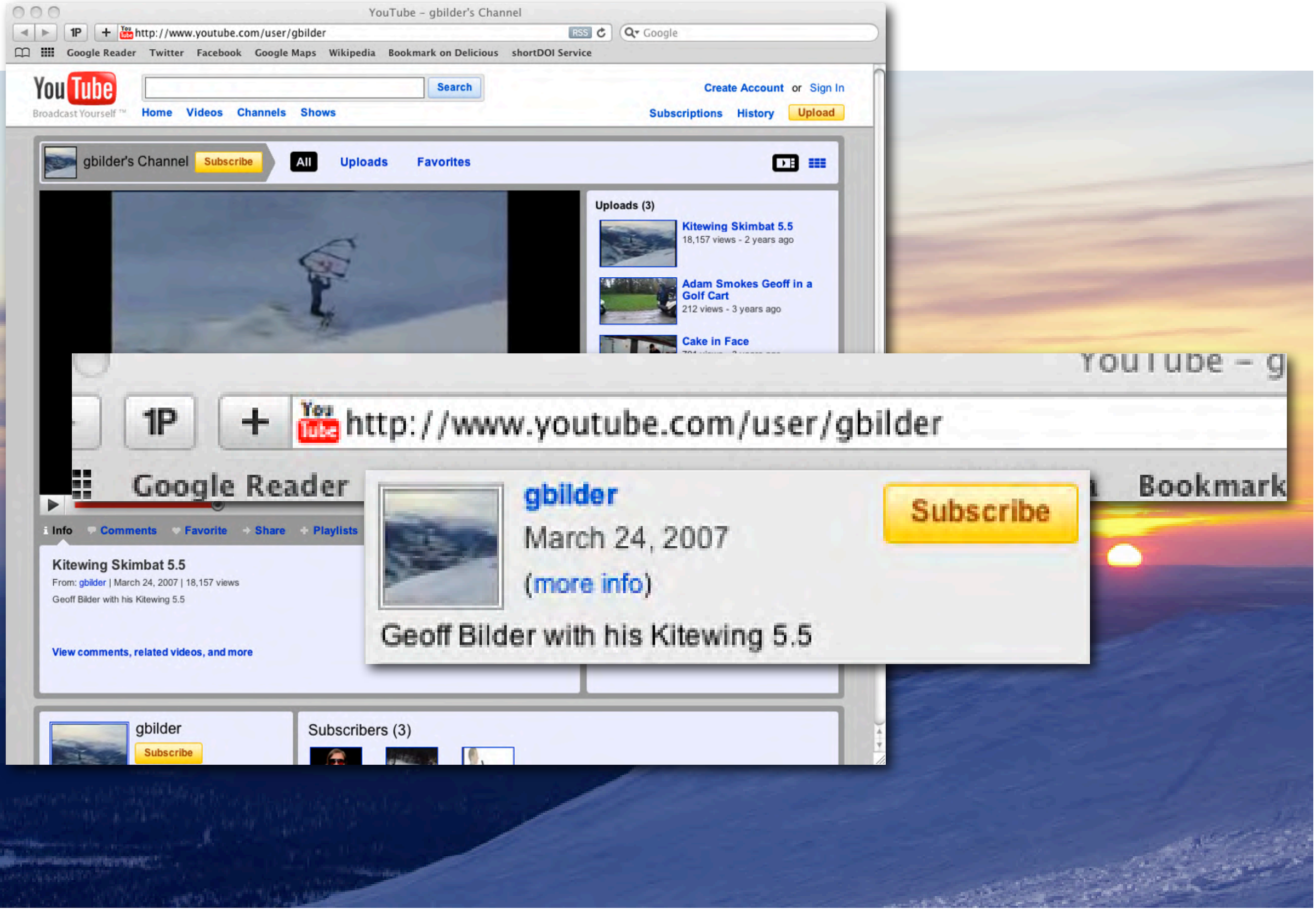
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王维

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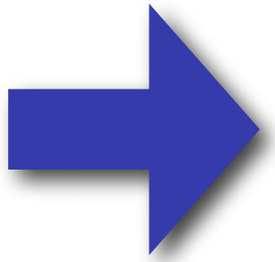

Wei Wang

doi:10.1103/PhysRevLett.99.230001

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王维

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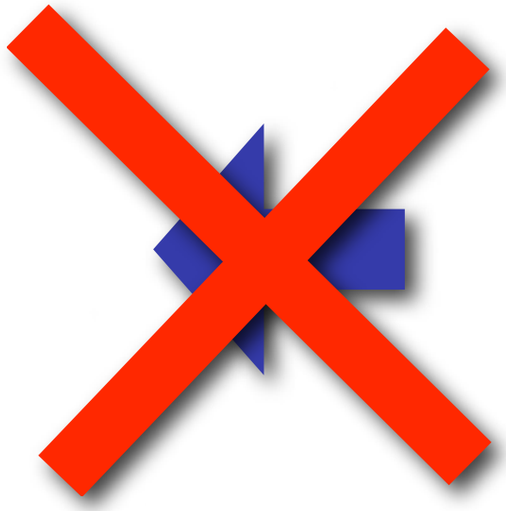


Wei Wang

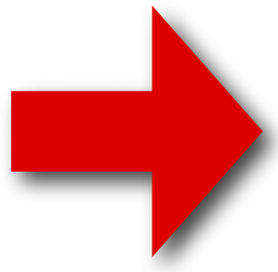
汪卫

汪玮

汪威

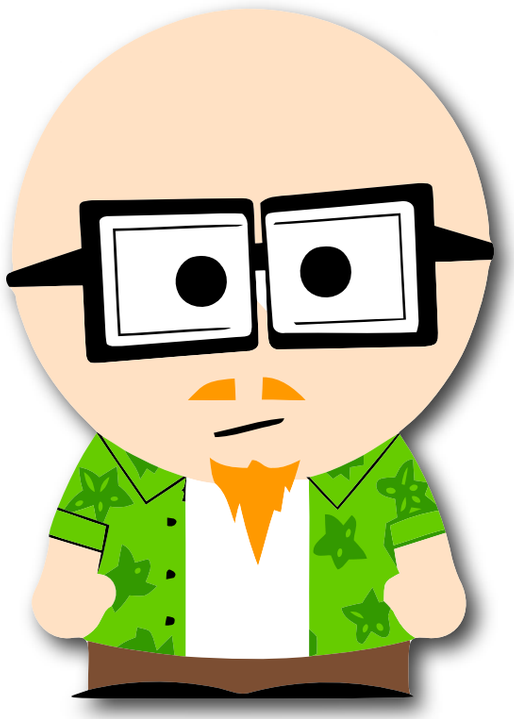
汪巍

Jane Doe Jane Bloggs

Walter Carlos  Wendy Carlos

Terminology

Subject



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Oxford

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130 High Street (3rd Floor)
Oxford

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130 High Street (3rd Floor)
Oxford

doi: 10.1007/BF01829975
O'Donnell, J & Bilder, G, 1994, 'Book reviews', *Computers and the Humanities*, vol. 28, no. 6, pp. 401-404. (http://dx.doi.org/10.1007/BF01829975)
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Bilder, G, 2006, 'In Google We Trust?', *Journal of Electronic Publishing*, vol. 9, no. 1. (http://dx.doi.org/10.3998/3336451.0009.101)
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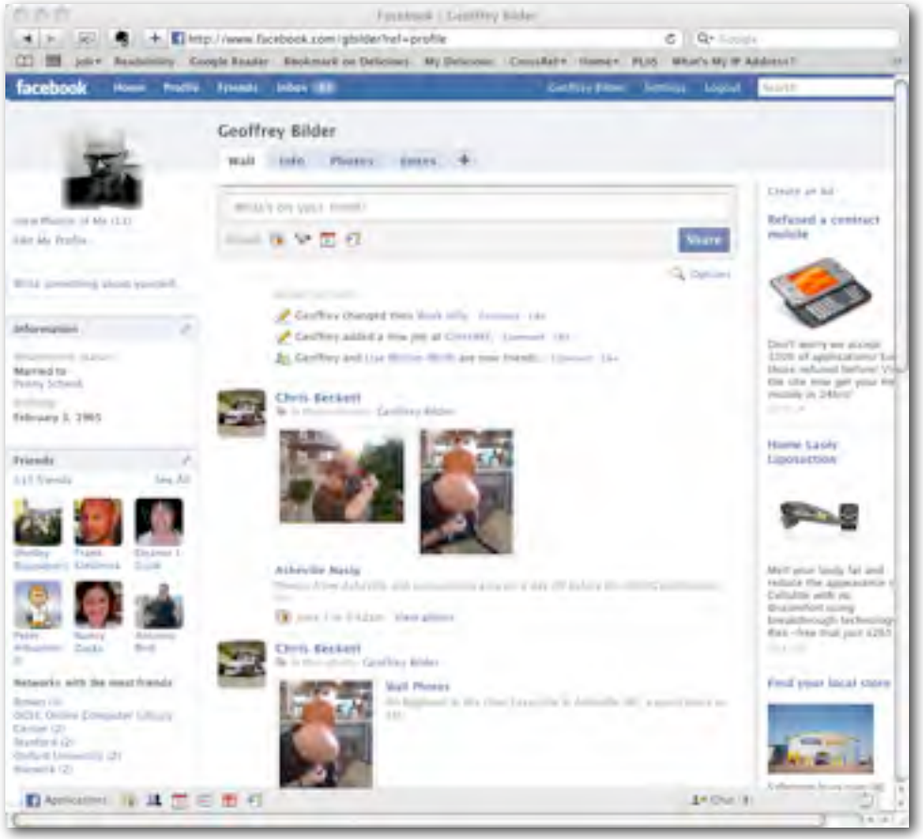
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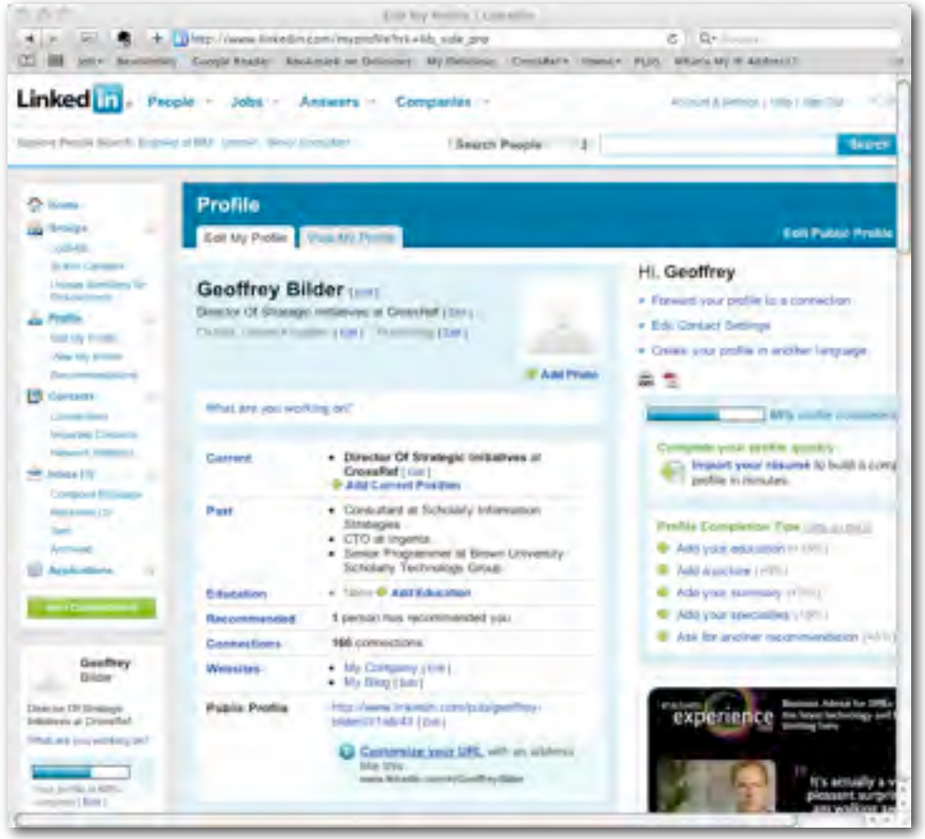
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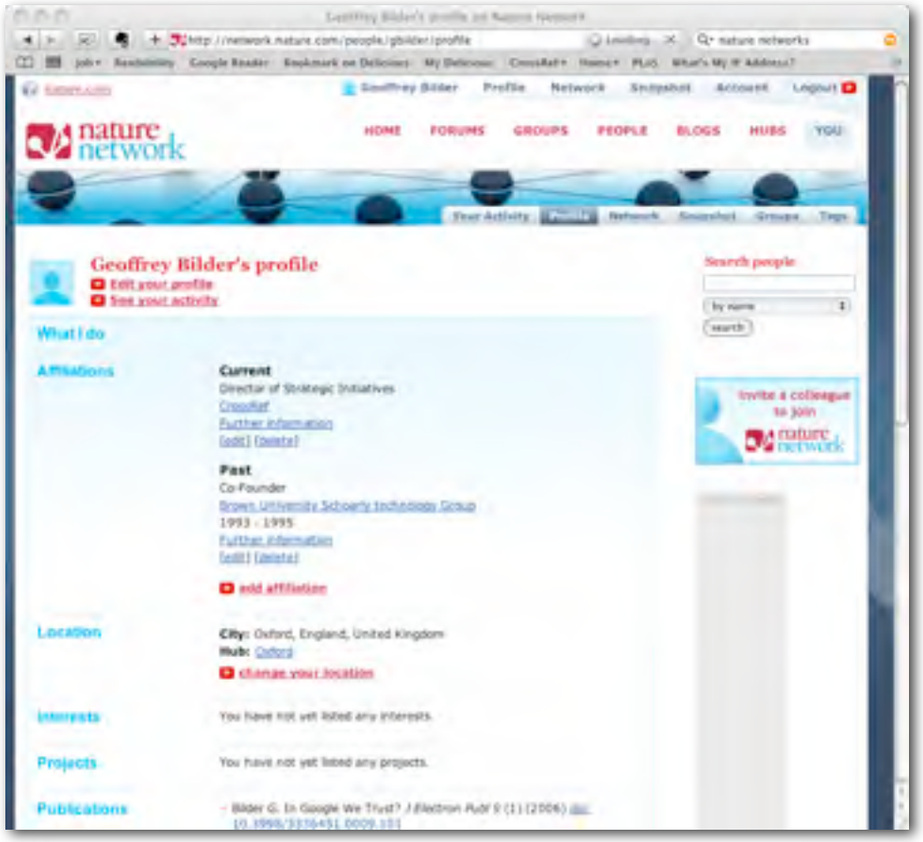
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Credential

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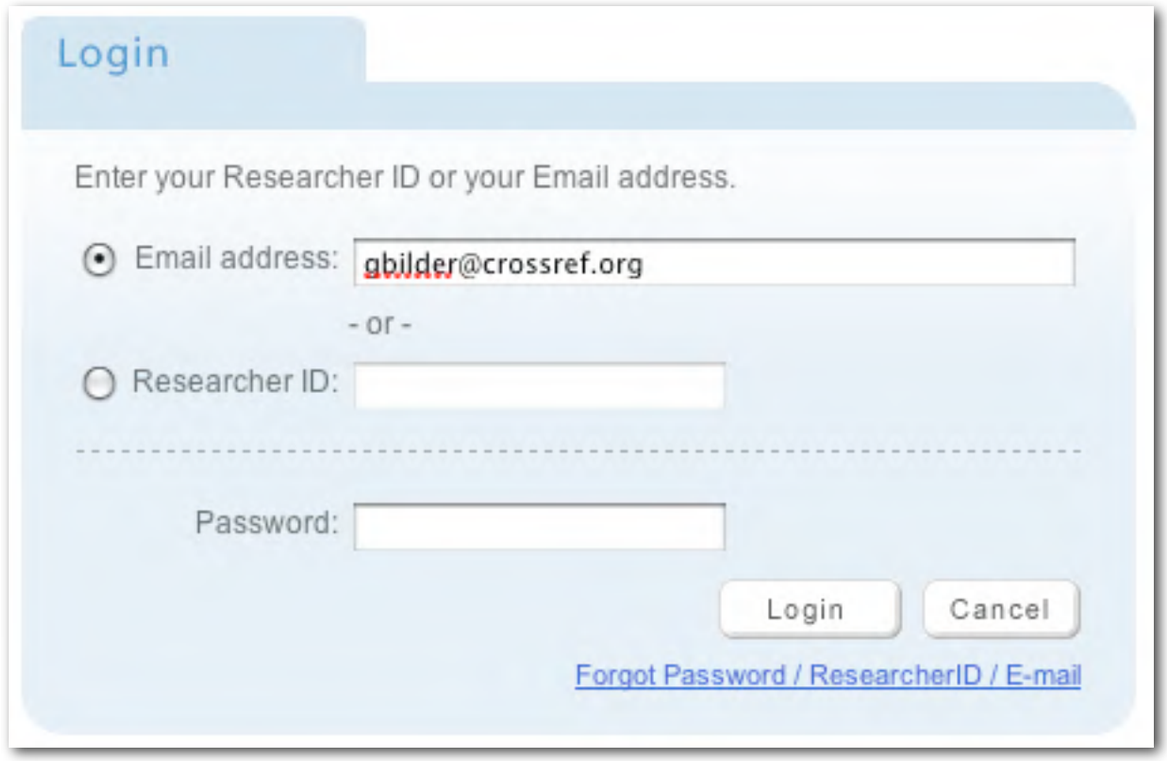
EUROPEAN UNION
UNITED KINGDOM OF
GREAT BRITAIN
AND NORTHERN IRELAND
PASSPORT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Credential

Protocol

crossref

X.500

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Shibboleth.

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One more term...

Assertion

Geoffrey Bilder is Creditworthy
Geoffrey Bilder is a US Citizen
Geoffrey Bilder is a UK Citizen
Geoffrey Bilder is authorized to drive a car in the UK
Geoffrey Bilder has bought 1,151 songs from iTunes
I play the electric ukulele
I "follow" Allen Renear on Twitter
I like Sichuan food
I am the author of article X

Assertion

Externally asserted identity

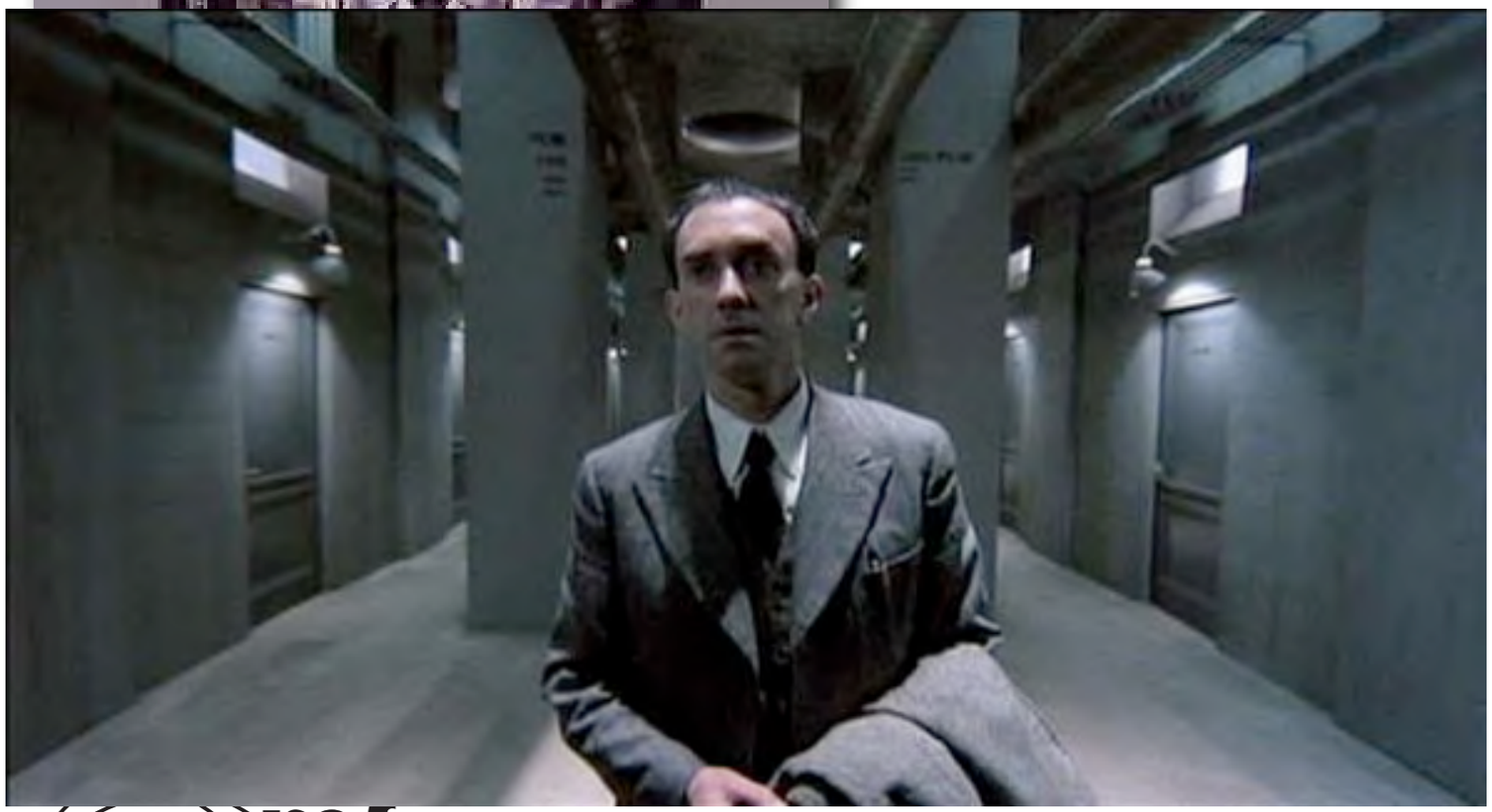
EUROPEAN UNION
UNITED KINGDOM OF
GREAT BRITAIN
AND NORTHERN IRELAND
PASSPORT
NATIONAL
D
FR
6/1973

Tuesday, 8 December 2009

CREDIT HISTORY
be judged on its own
of information

Brazil

It's all about Fight or Flight. And the nightmare of reality.
Terrorist bombings. And late night shopping.
That kind. And window shopping.
It's only a state of mind
Brazil



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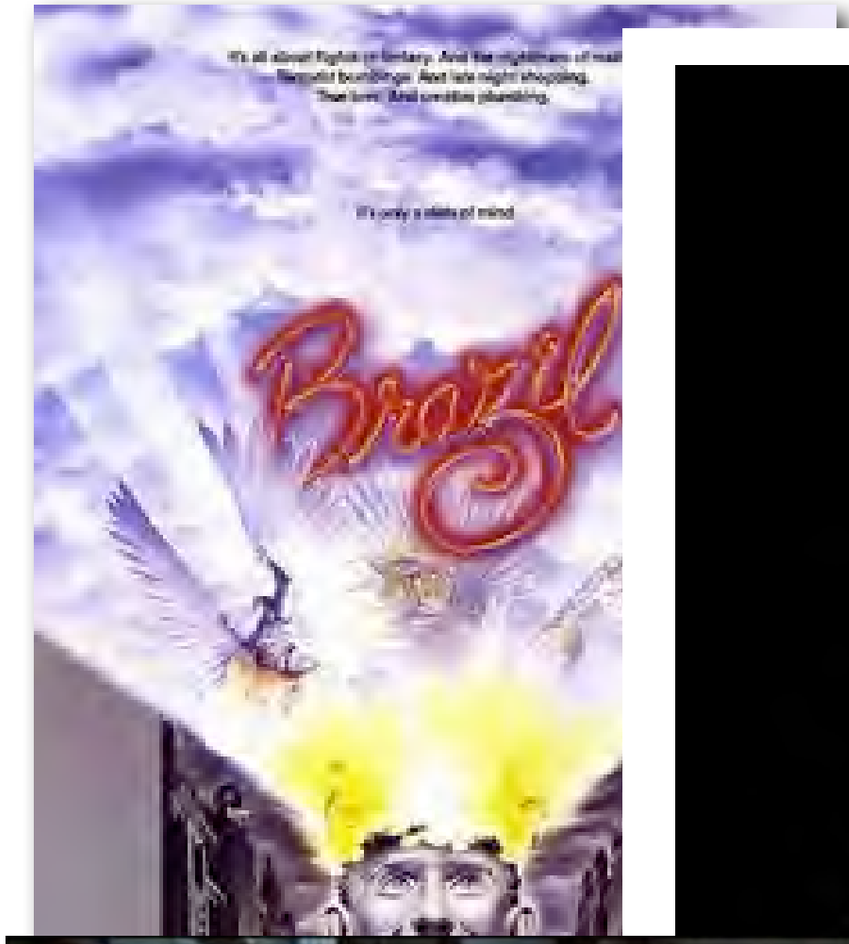

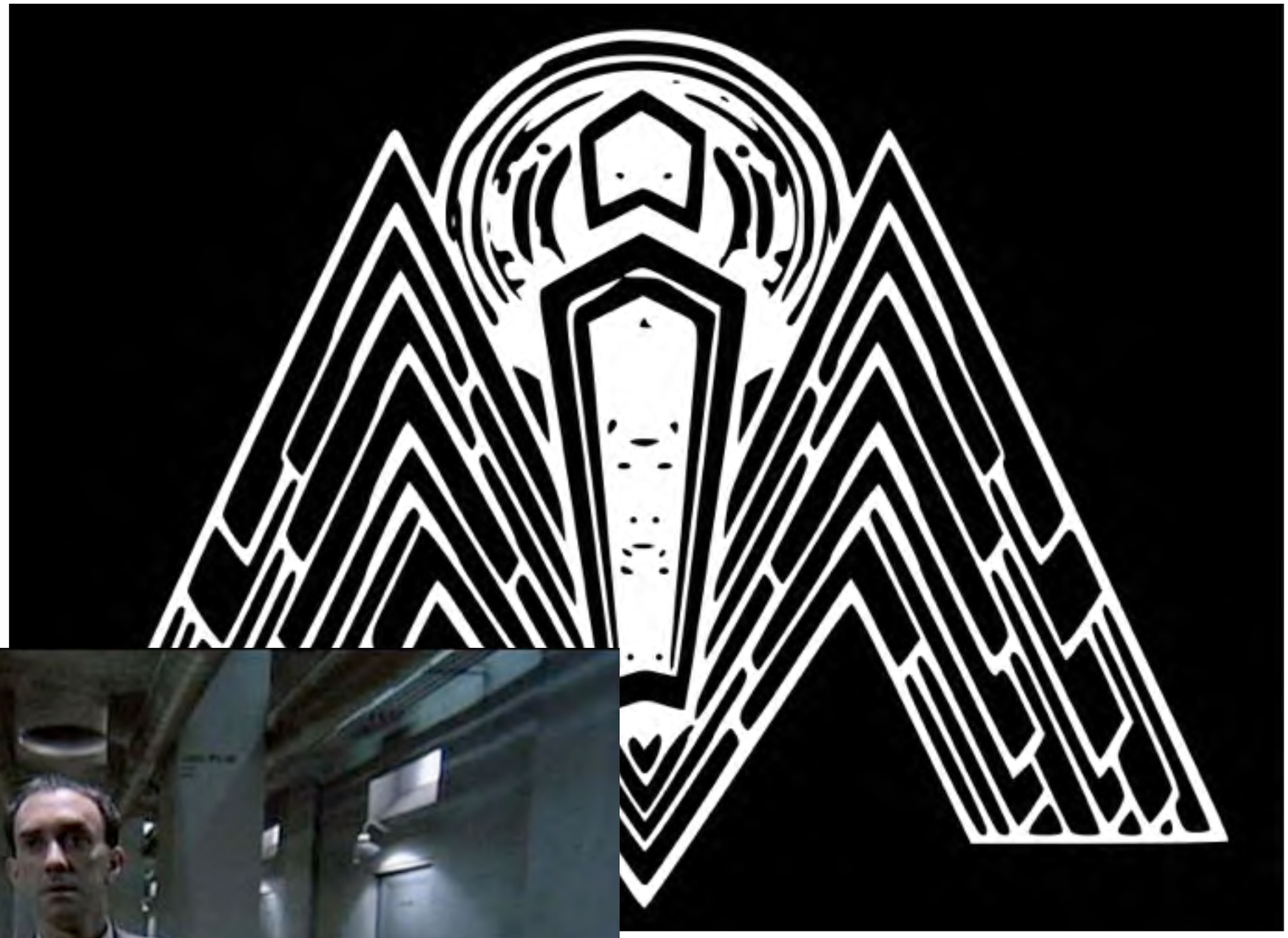

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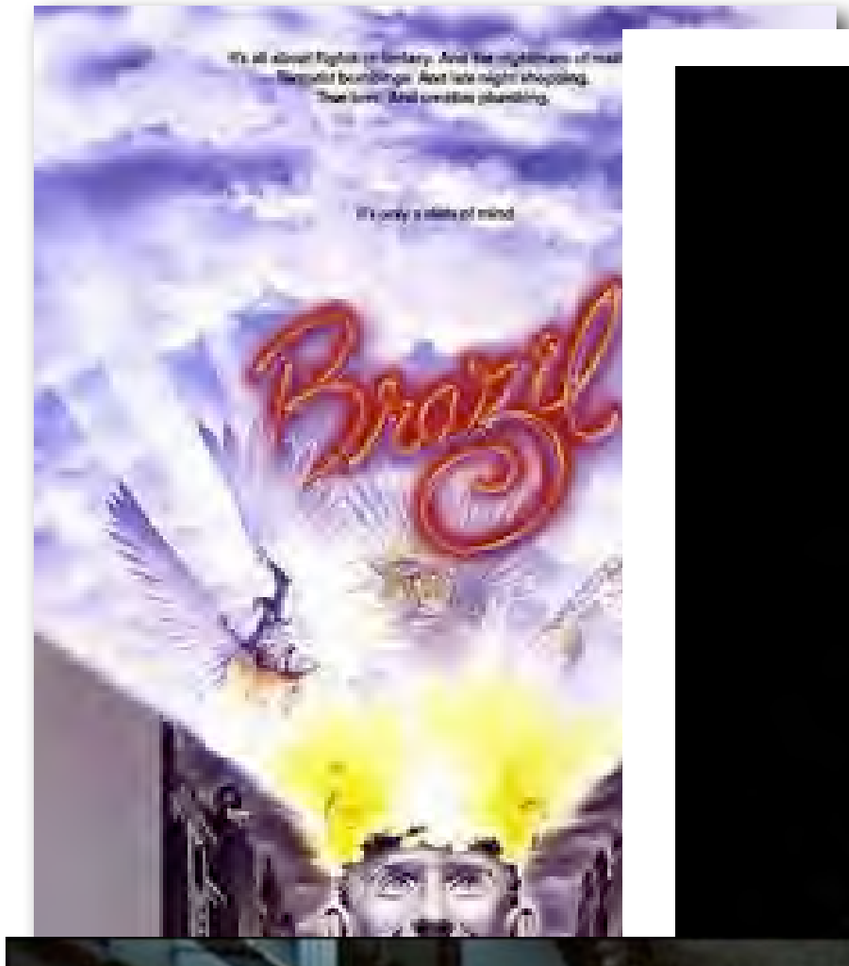

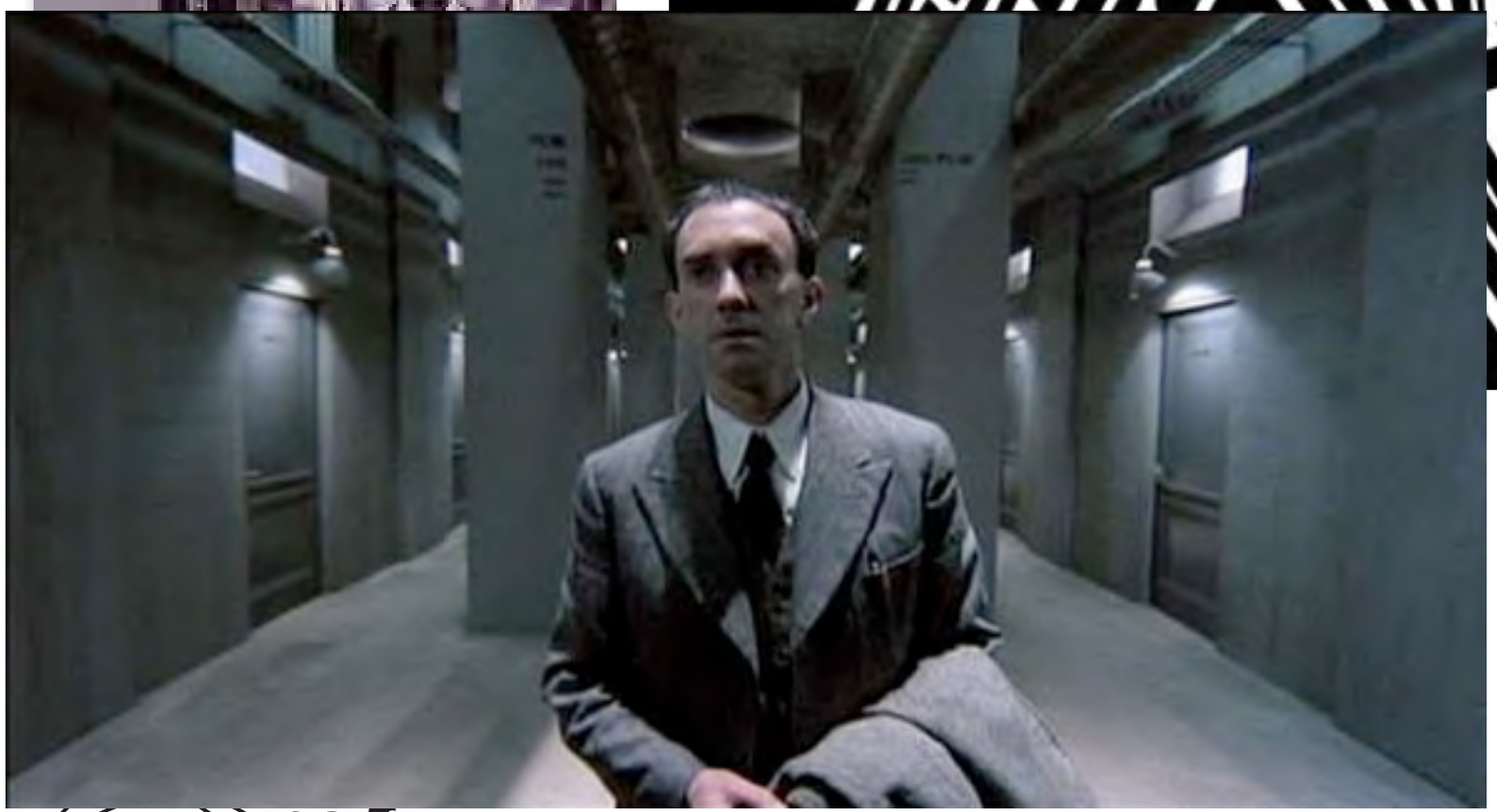

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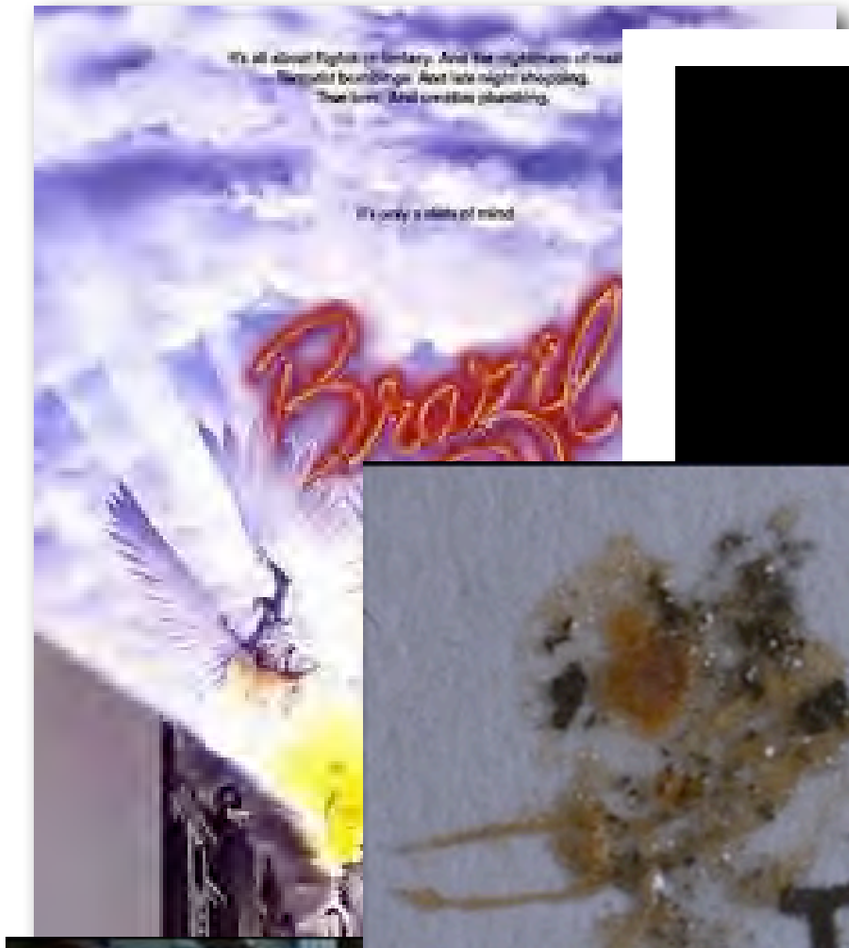

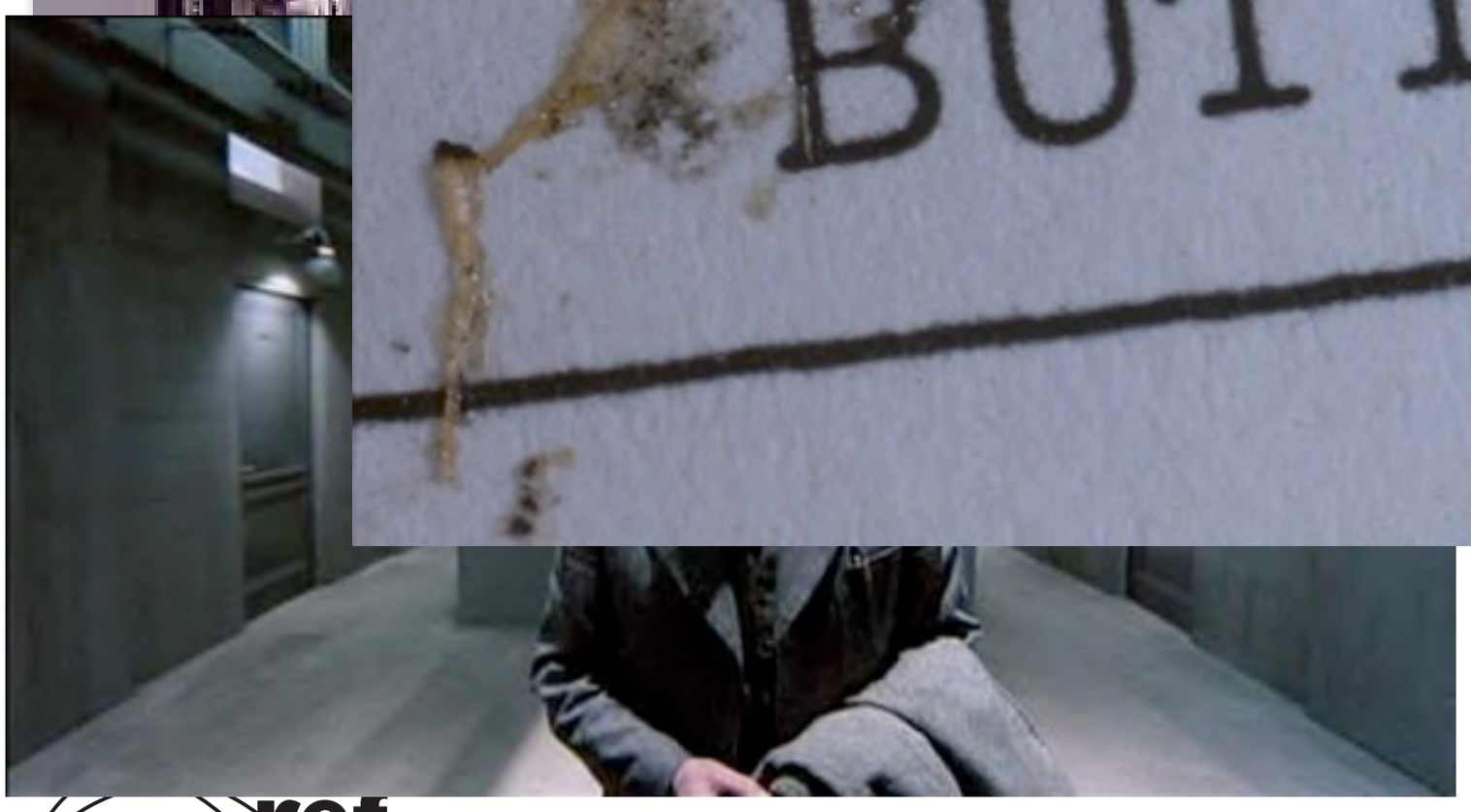

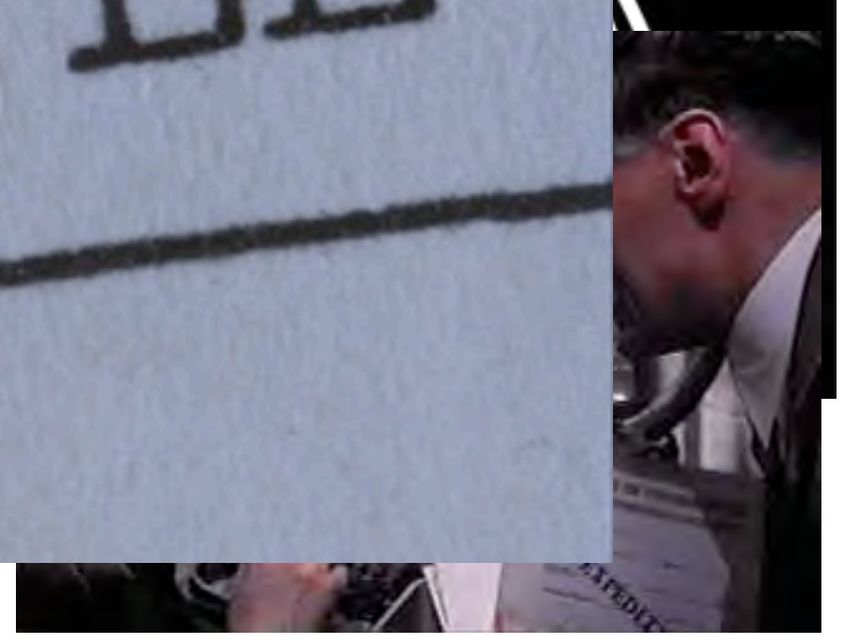

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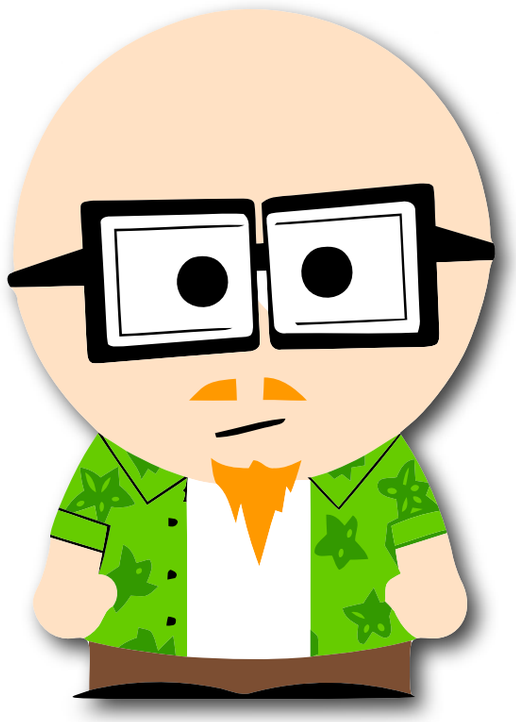
Self-asserted identity



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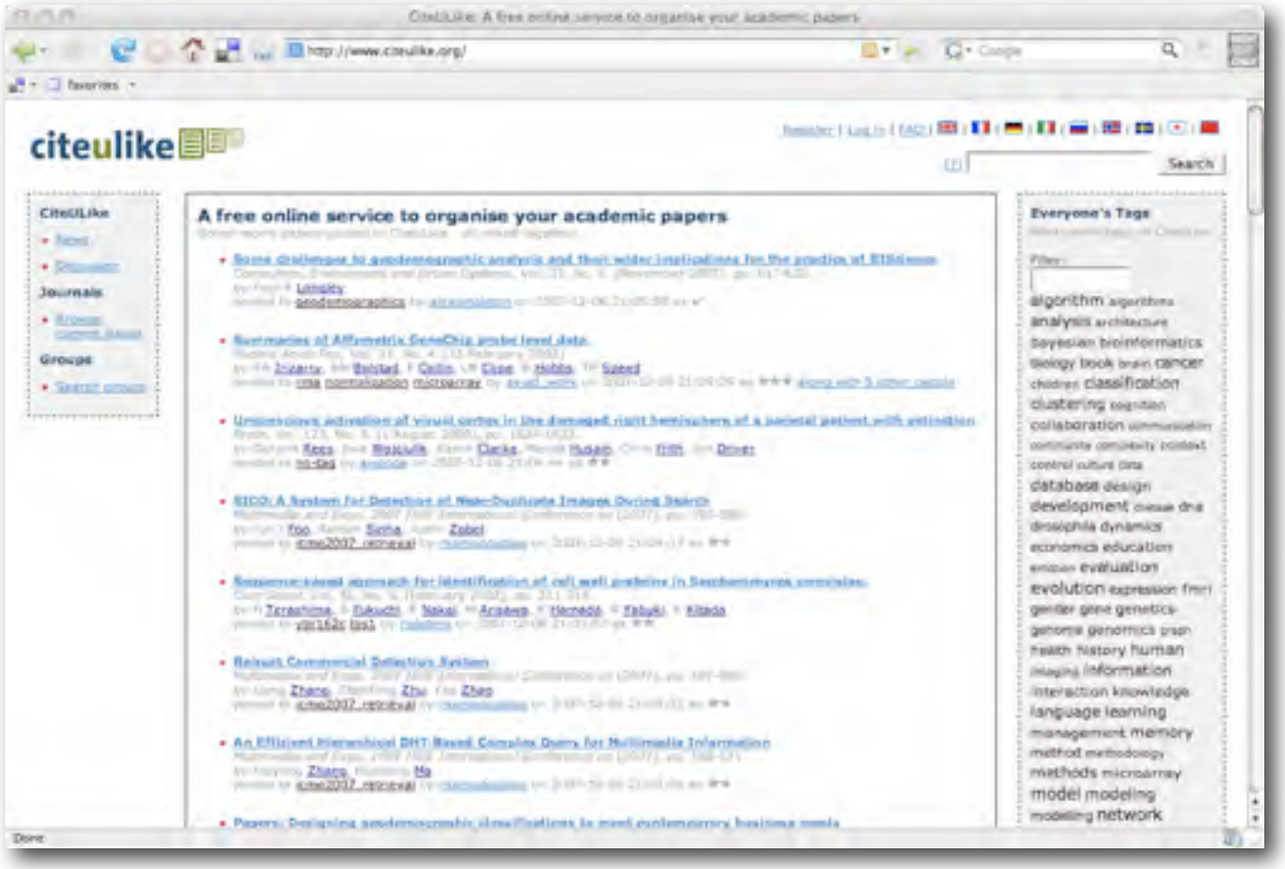
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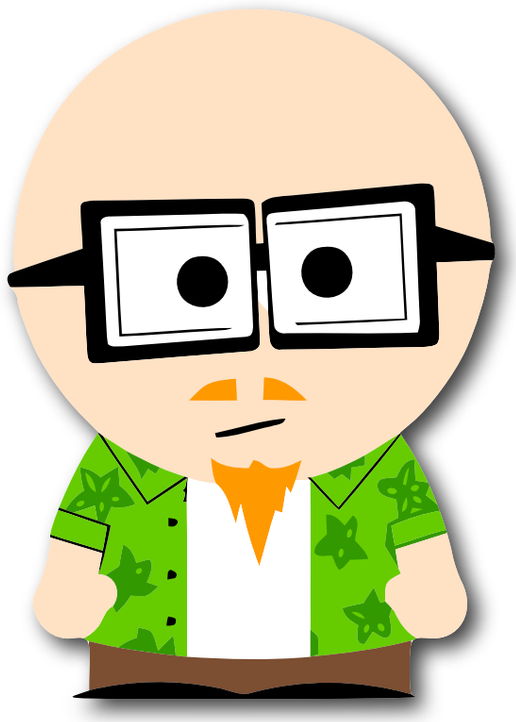

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page 1 of 123
GPS: TomTom Teams Up With Google Maps for One-Click Navigation
Inside CDL: eXtensible Text Framework (XTF)
apophenia: Who clicks on ads? And what might this mean?
A hard rain's a-gonna fall
envirofone.com - Get cash for your old mobile phones
ACAP: We Don't Need No Stinkin' robots.txt
"...perhaps they should be more focused on adapting their business model to support the form of New Media than creating standards in an attempt to New Media to conform to them."
ACAP Launches, Robots.txt 2.0 For Blocking Search Engines?
"Do site owners need to run out and immediately use it? No. Not immediately. Not even long term."
SWORD - DigiRepWiki
"facilitate easier and more effective population of repositories"
The Scientist : Open Access 2.0
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3 consulting
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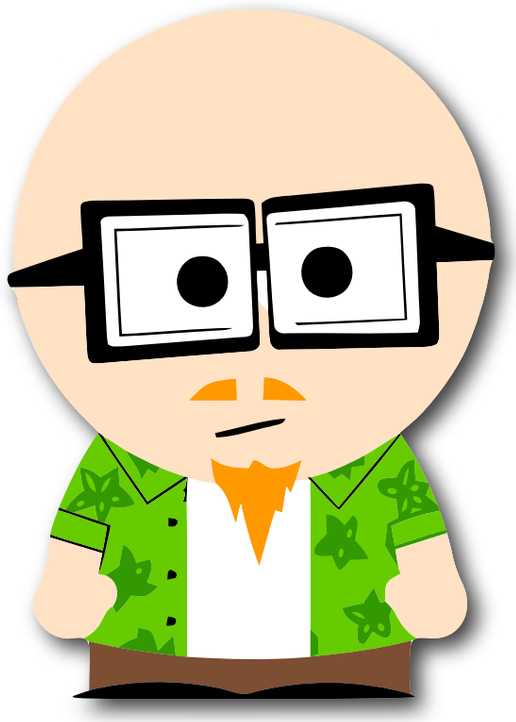
Match case
Done



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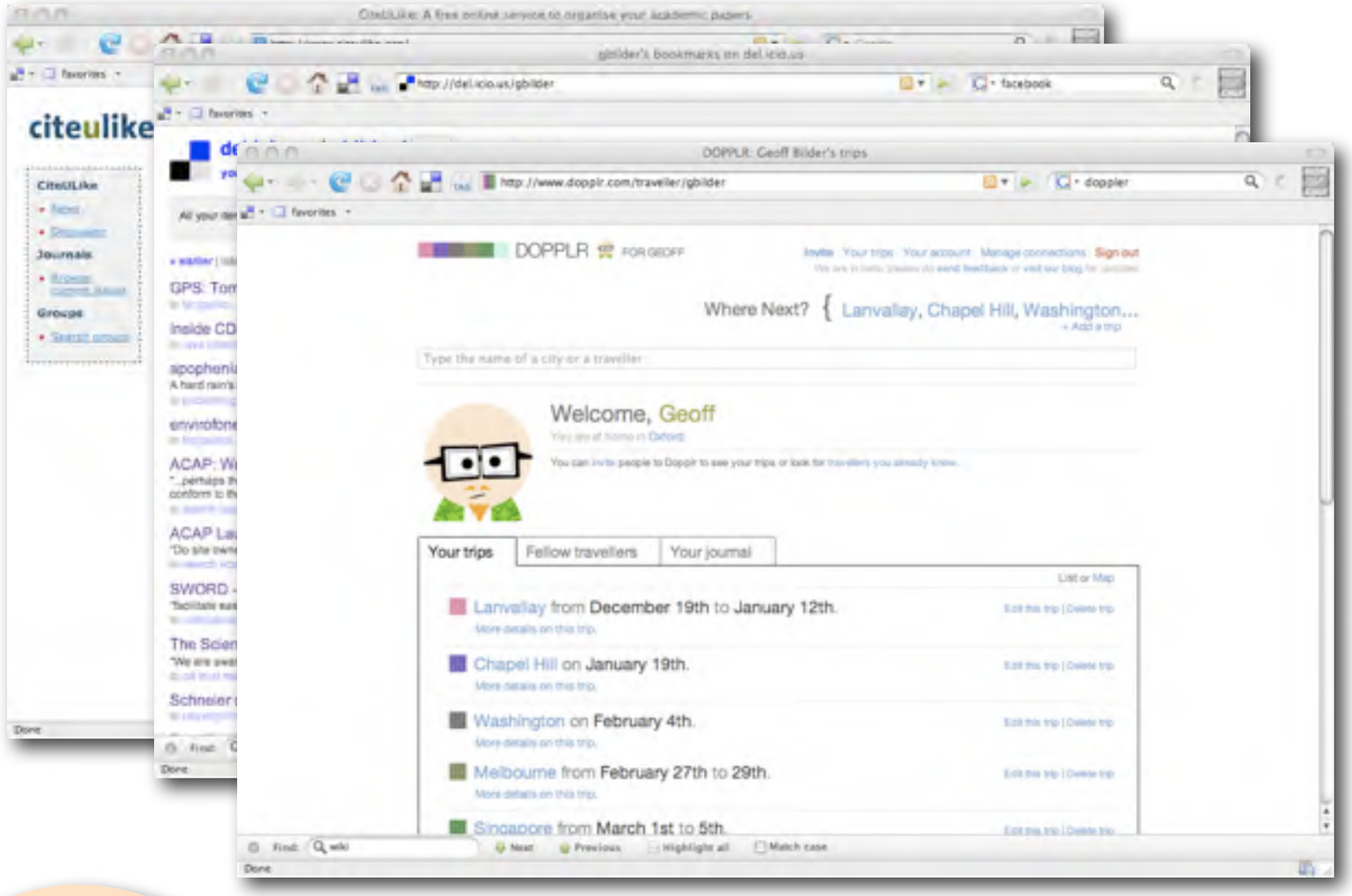
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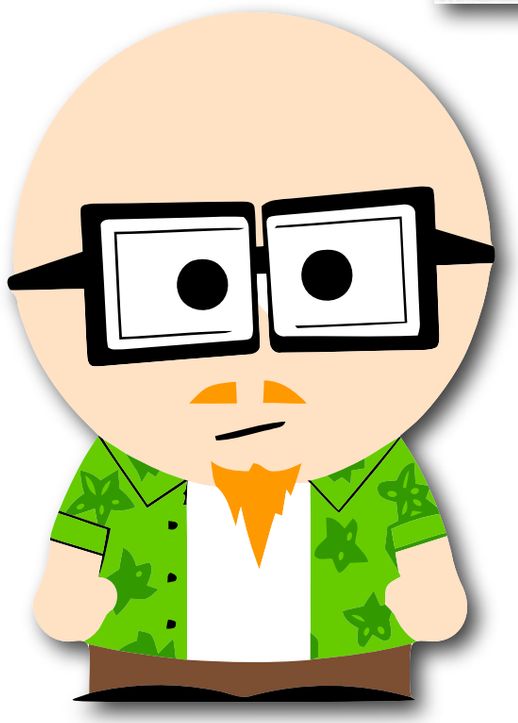
http://del.icio.us/gbilder
facebook
DOPPLR: Geoff Bilder's trips
http://www.doppir.com/traveller/gbilder
doppler
DOPPLR
FOR GEOFF
Invite Your trips Your account Manage connections Sign out
Where Next? { Lanvallay, Chapel Hill, Washington...
+ Add a trip
Type the name of a city or a traveller
Welcome, Geoff
You can invite people to Doppir to see your trips, or look for travellers you already know.
Your trips
Fellow travellers
Your journal
List or Map
Lanvallay from December 19th to January 12th.
Edit this trip | Delete trip
More details on this trip.
Chapel Hill on January 19th.
Washington on February 4th.
Melbourne from February 27th to 29th.
Singapore from March 1st to 5th.
Find: wiki
Next
Previous
Highlight all
Match case
Done



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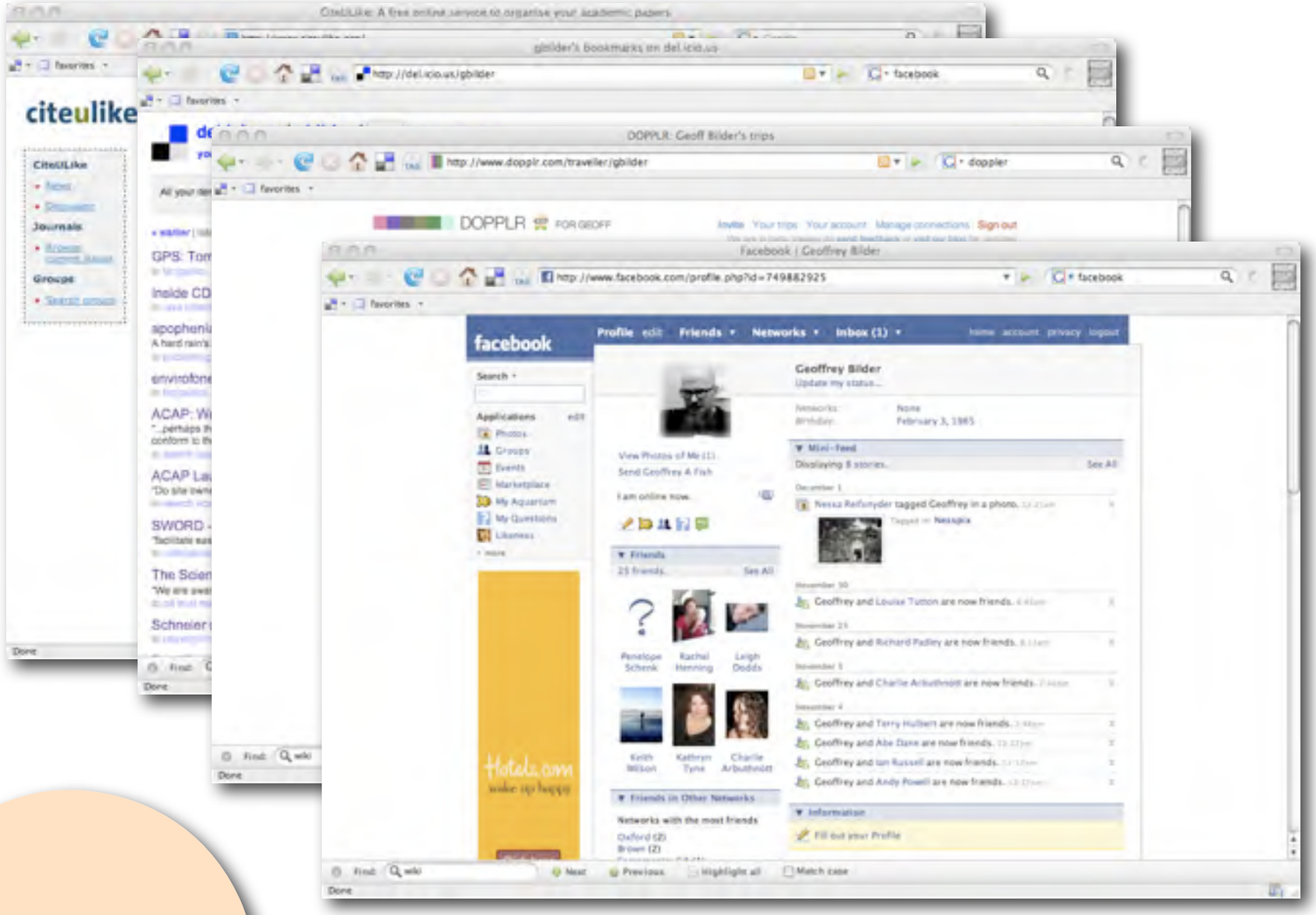
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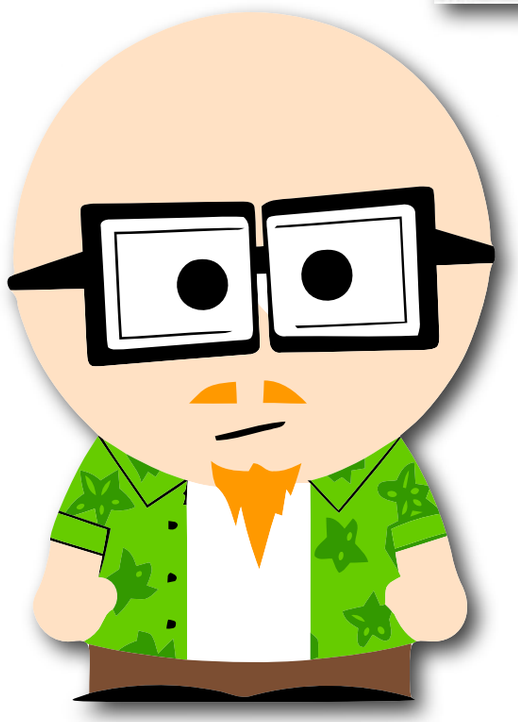
http://www.facebook.com/profile.php?id=749882925
facebook
Profile edit Friends Networks Inbox (1)
home account privacy logout
Search
Applications
Photos
Groups
Events
Marketplace
My Aquarium
My Questions
Likeness
Geoffrey Bilder
Update my status...
Networks: None
Birthday: February 3, 1965
View Photos of Me (1)
Send Geoffrey A Fish
I am online now.
Mini-Feed
Displaying 8 stories.
See All
Nessa Refunyder tagged Geoffrey in a photo.
Geoffrey and Louise Tutton are now friends.
Geoffrey and Richard Padley are now friends.
Geoffrey and Charlie Arbuthnott are now friends.
Geoffrey and Terry Hulbert are now friends.
Geoffrey and Abe Dane are now friends.
Geoffrey and Ian Russell are now friends.
Geoffrey and Andy Powell are now friends.
Friends
25 friends.
See All
Penelope Schenk
Rachel Henning
Leigh Dodds
Keith Wilson
Kathryn Tyne
Charlie Arbuthnott
Friends in Other Networks
Networks with the most friends
Oxford (2)
Brown (2)
Information
Fill out your Profile
Hotels.com
wake up happy
Find: wiki
Next
Previous
Highlight all
Match case
Done



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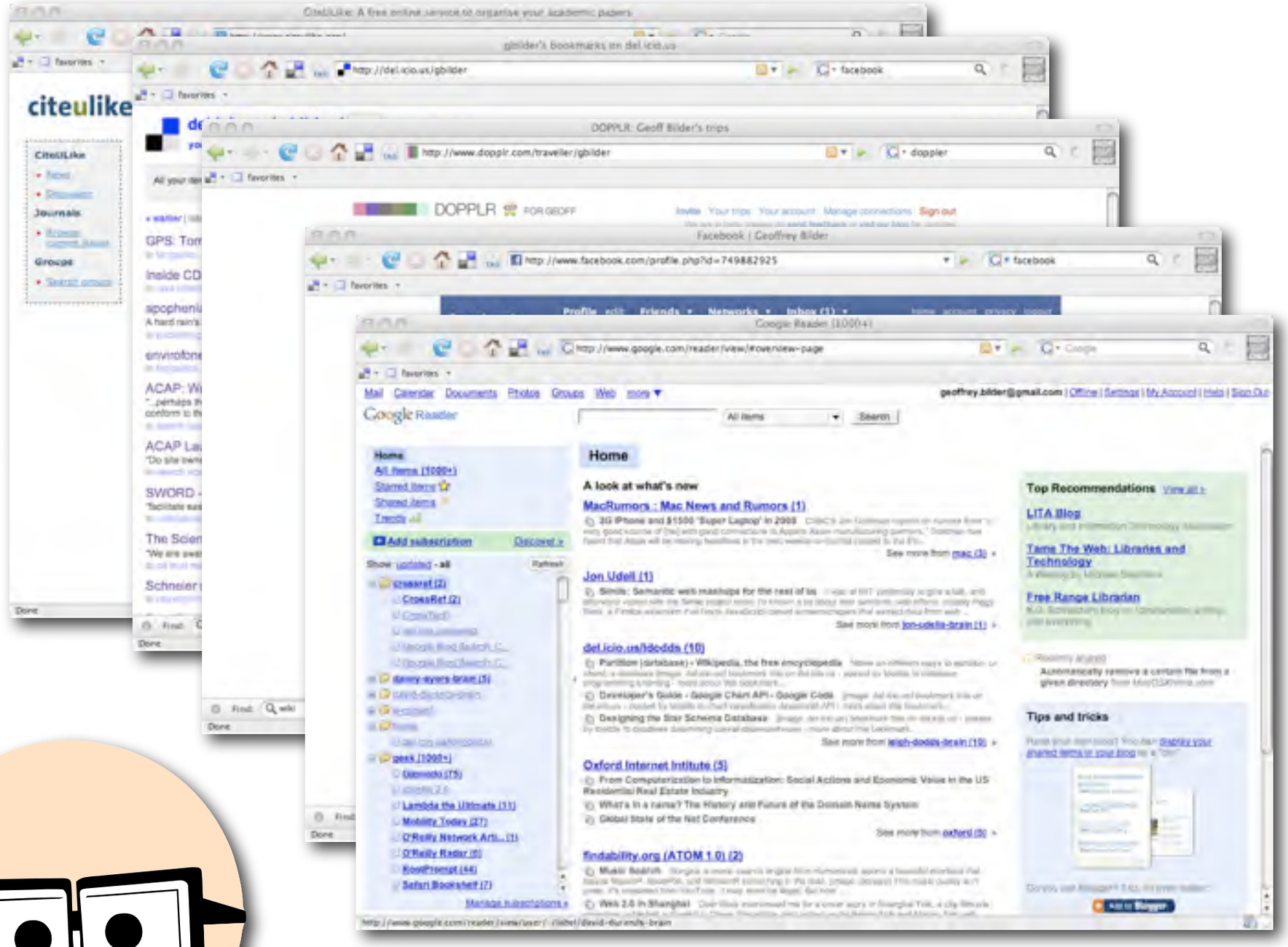
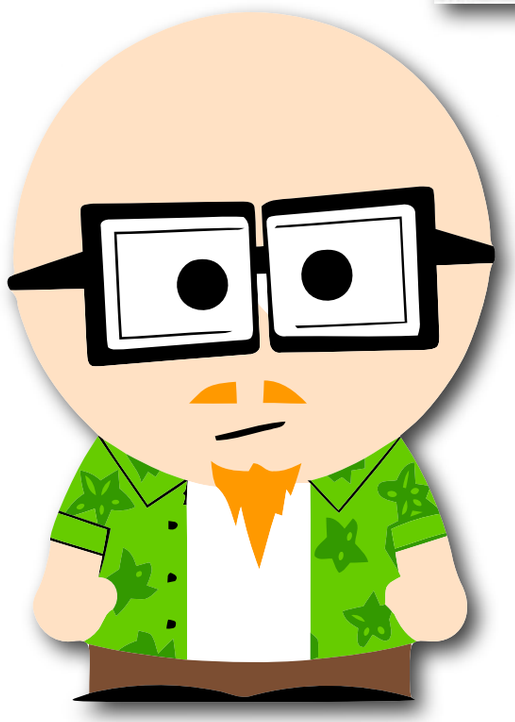
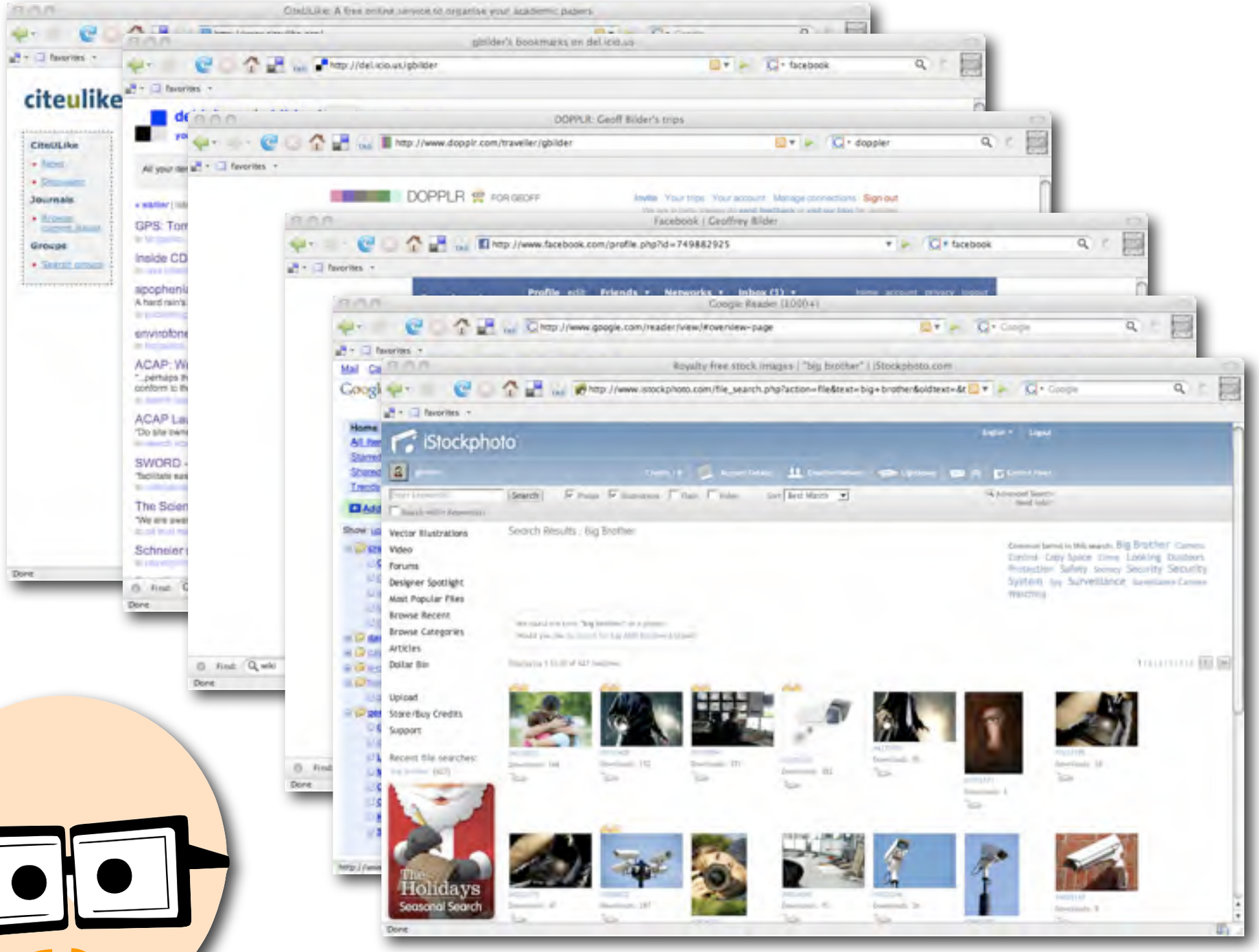




Tuesday, 8 December 2009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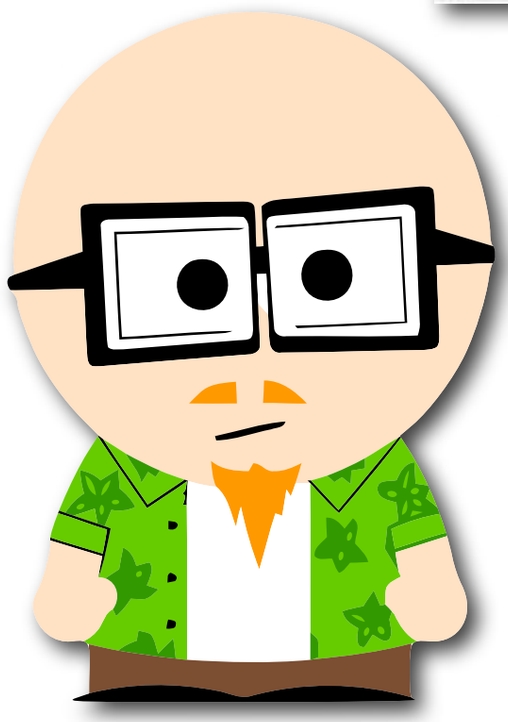
iStockphoto
Search Results : Big Brother
Vector Illustrations
Video
Forums
Designer Spotlight
Most Popular Files
Browse Recent
Browse Categories
Articles
Dollar Bin
Upload
Store/Buy Credits
Support
Recent file searches:
The Holidays
Seasonal Search
Done



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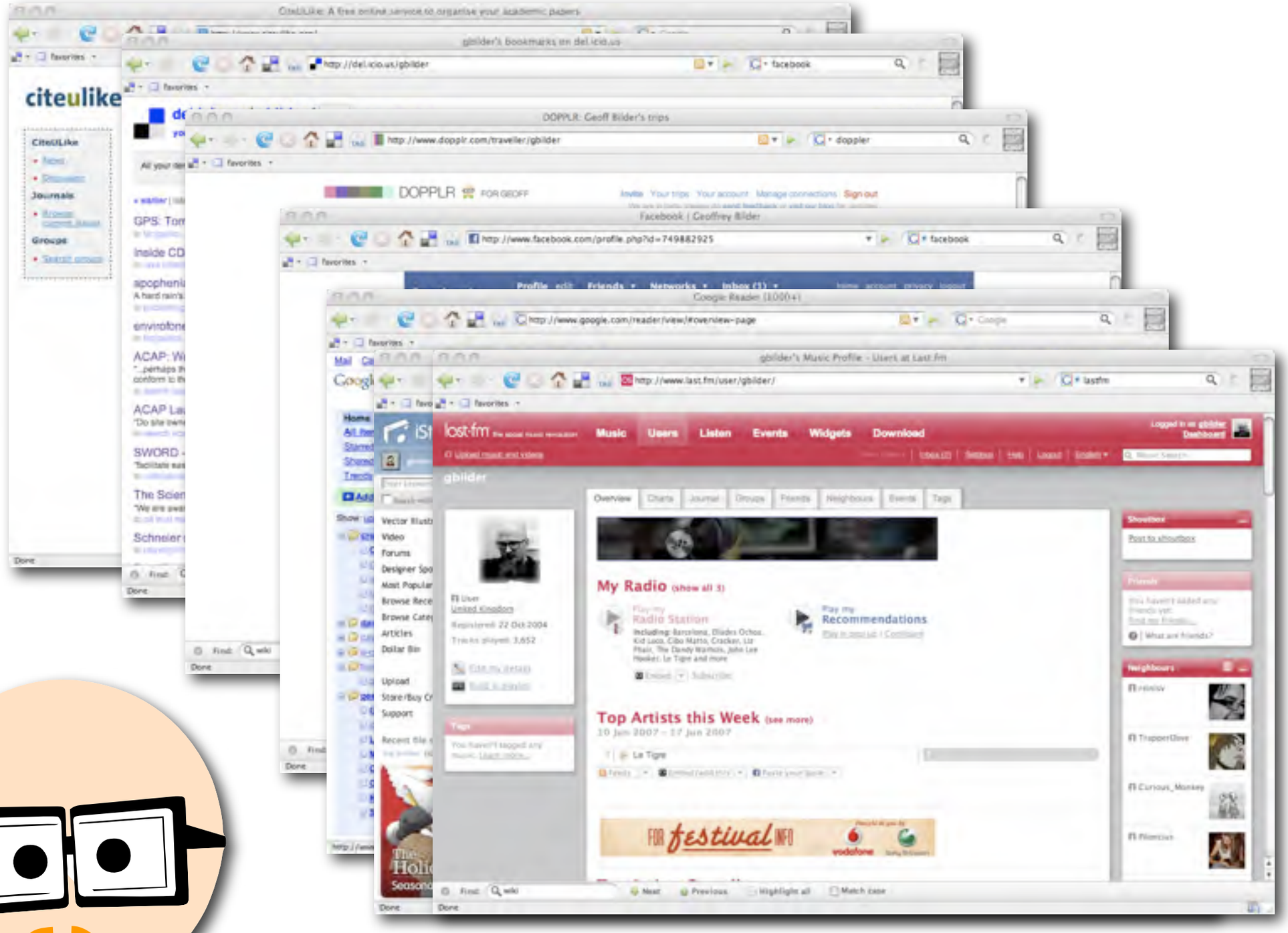
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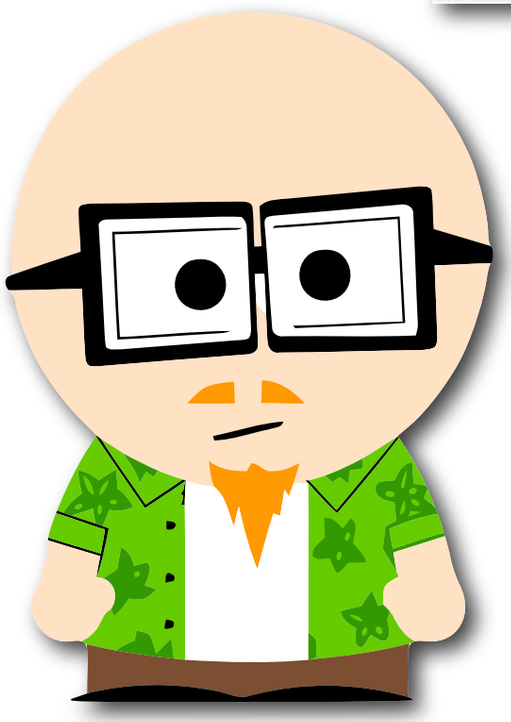
http://www.google.com/reader/view/#overview-page
gbilder's Music Profile - Users at Last.fm
http://www.last.fm/user/gbilder/
lost.fm
Music
Users
Listen
Events
Widgets
Download
gbilder
My Radio (show all 3)
Radio Station
Recommendations
Top Artists this Week (see more)
10 Jun 2007 – 17 Jun 2007
Le Tigre
FOR festival INFO
vodafone
Shoutbox
Friends
Neighbours



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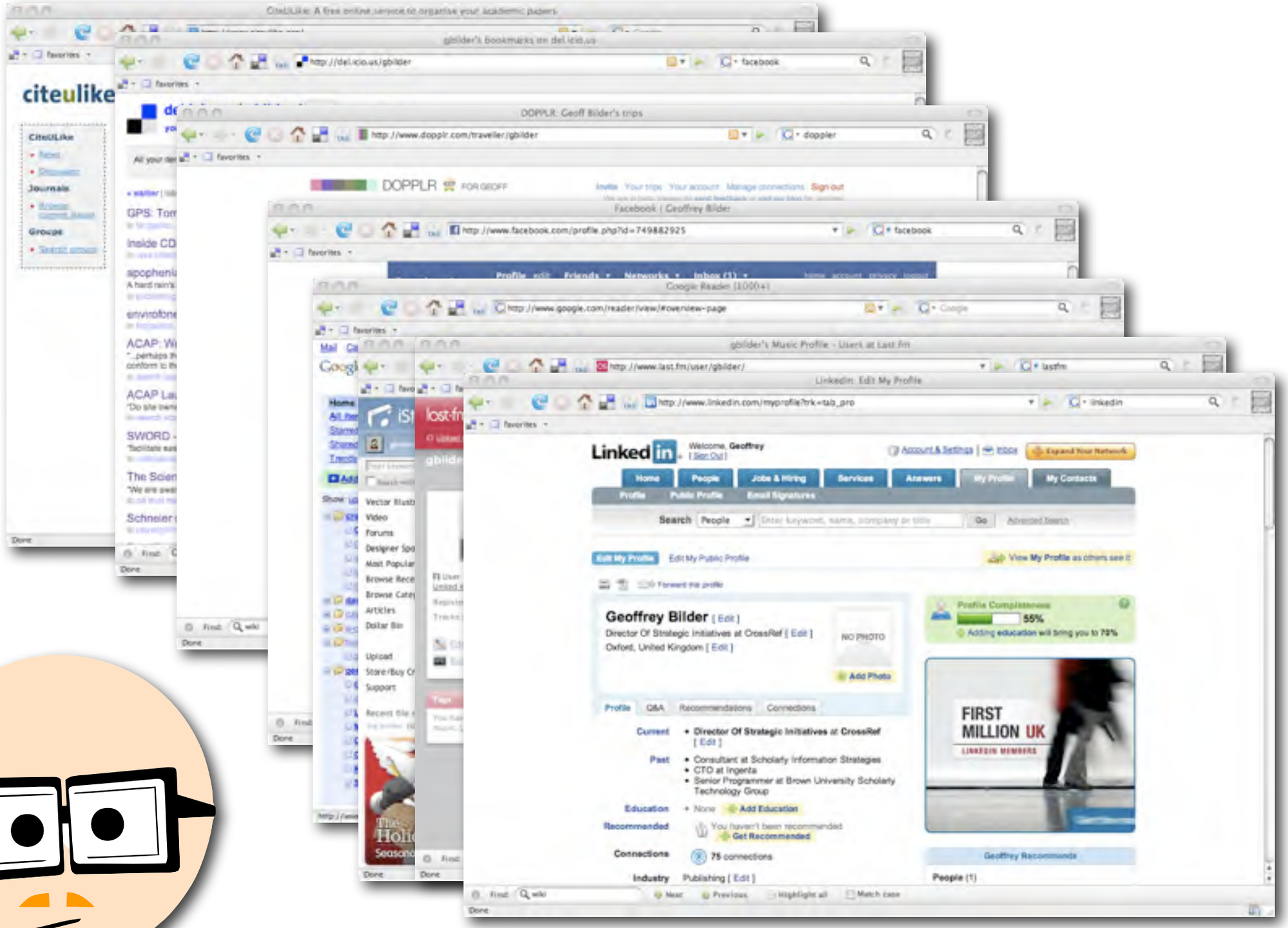
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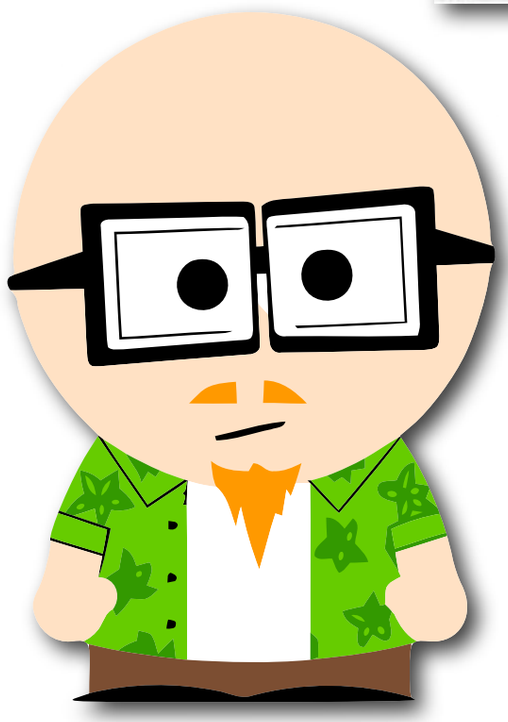
http://www.last.fm/user/gbilder/
LinkedIn: Edit My Profile
http://www.linkedin.com/myprofile?trk=tab_pro
Welcome, Geoffrey
Home
People
Jobs & Hiring
Services
Answers
My Profile
My Contacts
Edit My Profile
Edit My Public Profile
Geoffrey Bilder [Edit]
Director Of Strategic Initiatives at CrossRef [Edit]
Oxford, United Kingdom [Edit]
NO PHOTO
Add Photo
Profile Completeness
55%
Profile
Q&A
Recommendations
Connections
Current
Director Of Strategic Initiatives at CrossRef
Past
Consultant at Scholarly Information Strategies
CTO at Ingenta
Senior Programmer at Brown University Scholarly Technology Group
Education
Add Education
Recommended
Get Recommended
Connections
75 connections
Industry
Publishing [Edit]
FIRST MILLION UK
LINKEDIN MEMBERS
Geoffrey Recommends
People (1)



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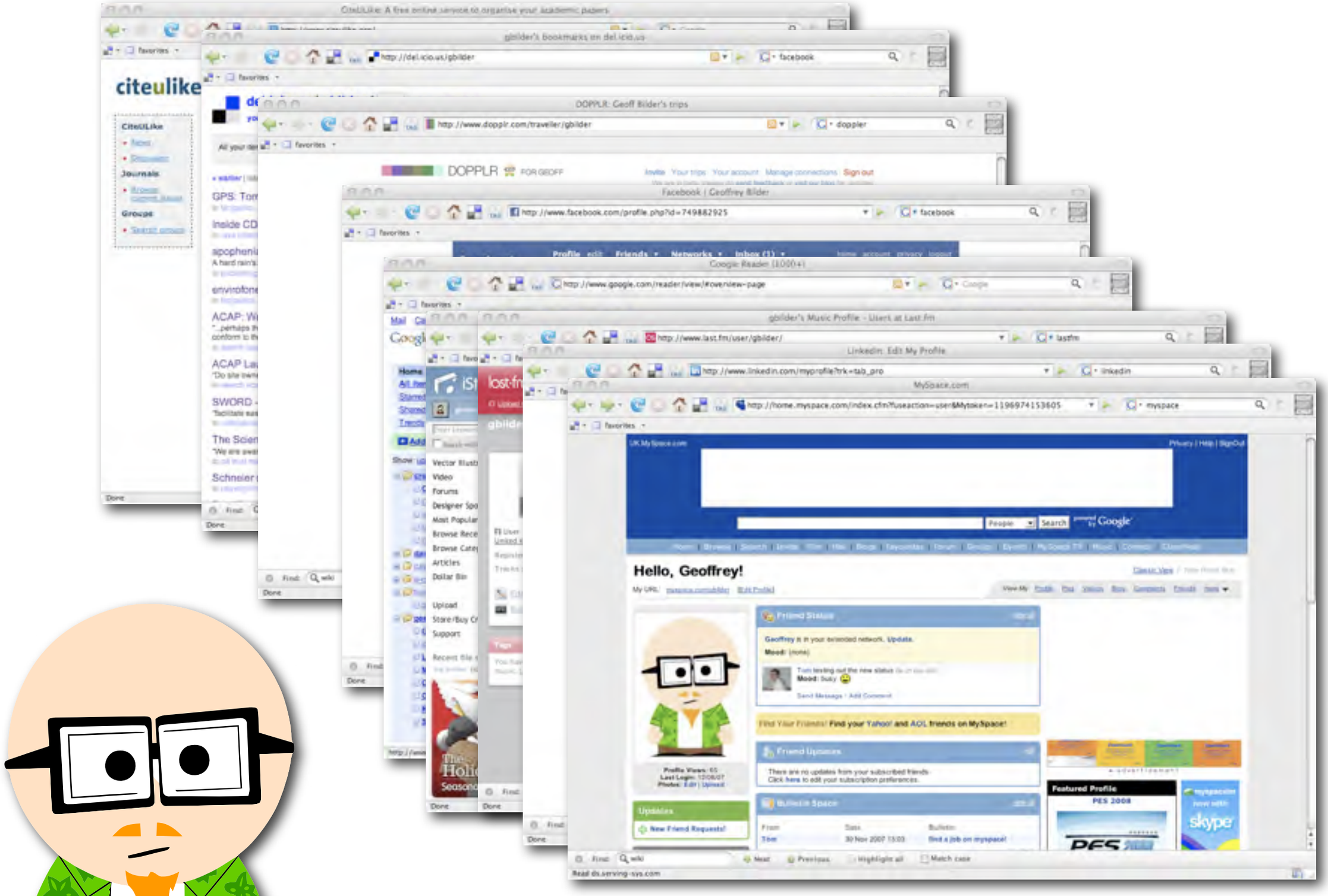
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http://www.google.com/reader/view/#overview-page
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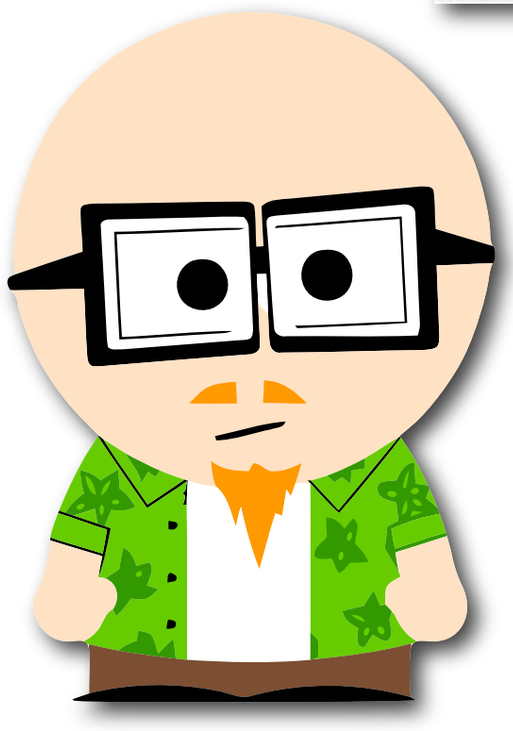
http://www.last.fm/user/gbilder/
LinkedIn: Edit My Profile
http://www.linkedin.com/myprofile?trk=tab_pro
MySpace.com
http://home.myspace.com/index.cfm?fuseaction=user&MyToke=-119697153605
Hello, Geoffrey!
Friend Status
Friend Updates
Bulletin Space
Featured Profile
PES 2008
skype



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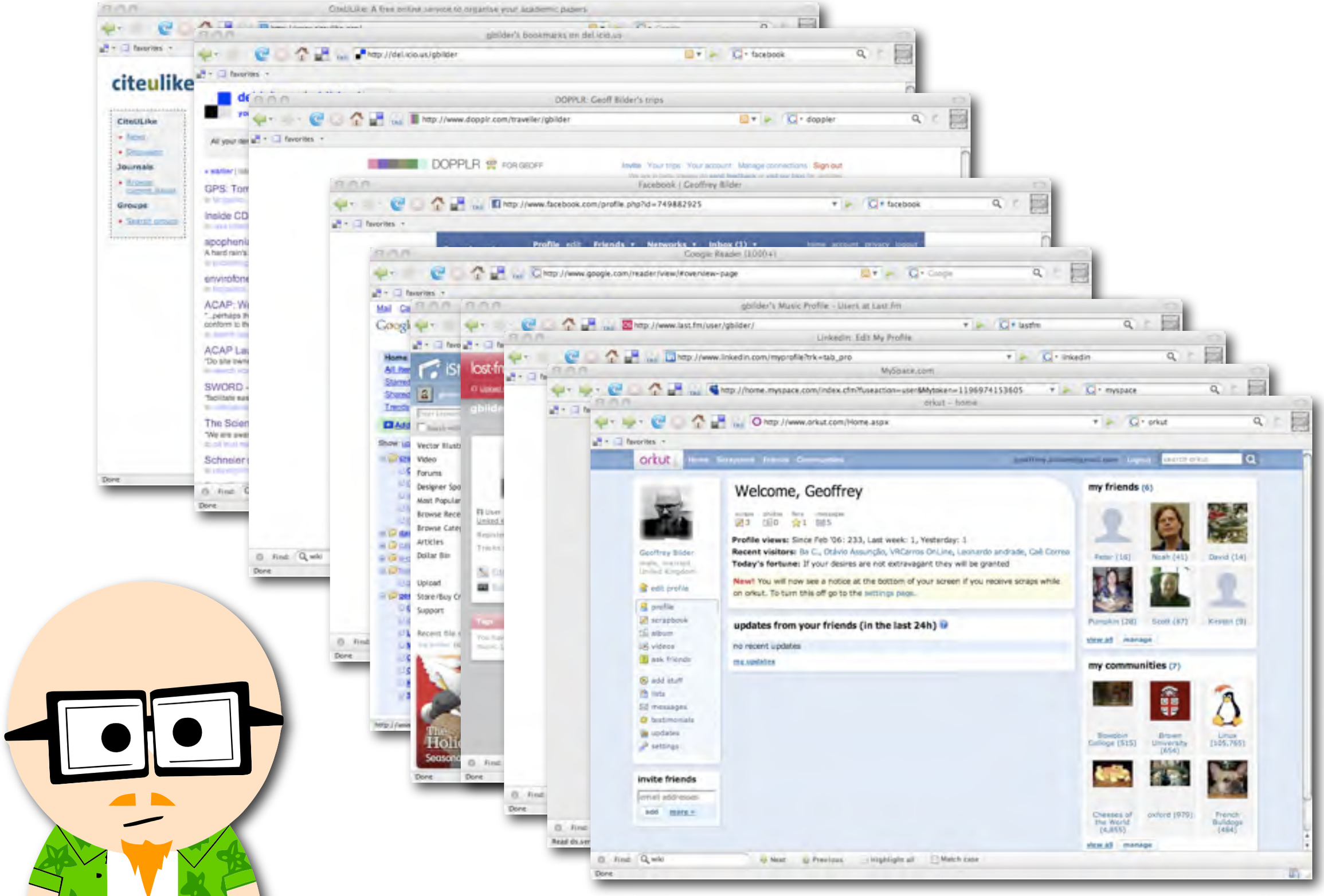
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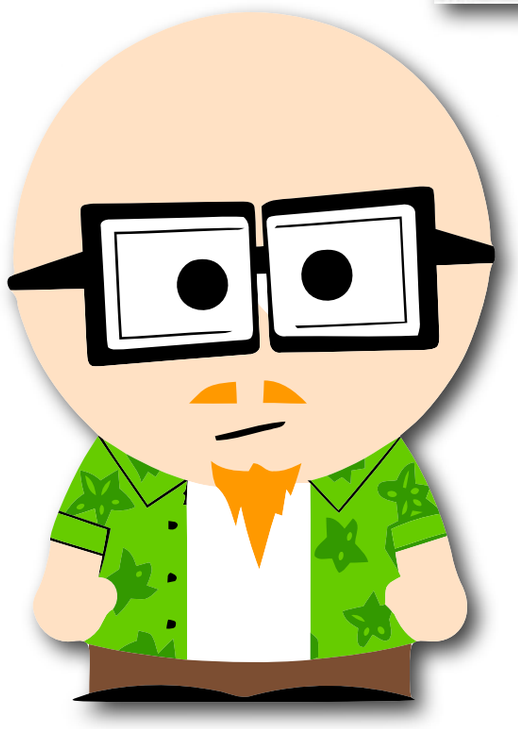
gbilder's Music Profile - Users at Last.fm
http://www.last.fm/user/gbilder/
LinkedIn: Edit My Profile
http://www.linkedin.com/myprofile?trk=tab_pro
MySpace.com
http://home.myspace.com/index.cfm?fuseaction=user&MyToken=119697153605
orkut - home
http://www.orkut.com/Home.aspx
orkut
Welcome, Geoffrey
Profile views: Since Feb '06: 233, Last week: 1, Yesterday: 1
Recent visitors: Ba C., Otávio Assunção, VRCarros OnLine, Leonardo andrade, Café Correa
Today's fortune: If your desires are not extravagant they will be granted
New! You will now see a notice at the bottom of your screen if you receive scraps while on orkut. To turn this off go to the settings page.
updates from your friends (in the last 24h)
no recent updates
my updates
invite friends
my friends (6)
my communities (7)



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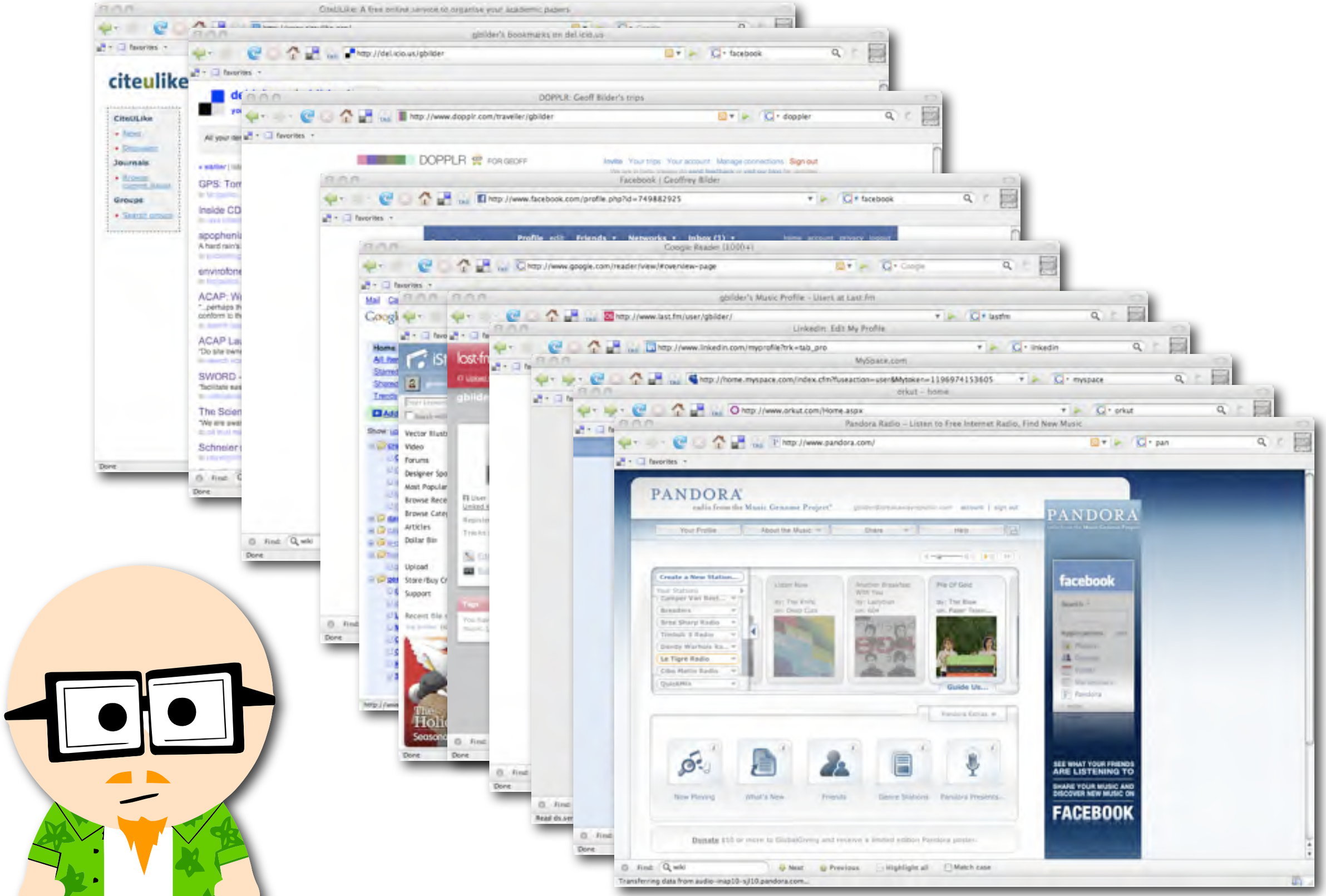
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http://www.last.fm/user/gblider/
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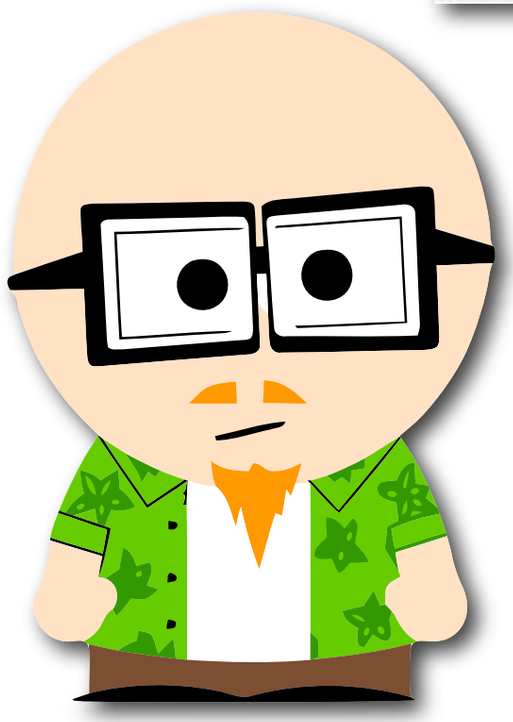
http://www.linkedin.com/myprofile?trk=tab_pro
MySpace.com
http://home.myspace.com/index.cfm?fuseaction=user&Mytoken=1196974153605
orkut - home
http://www.orkut.com/Home.aspx
Pandora Radio - Listen to Free Internet Radio, Find New Music
http://www.pandora.com/
PANDORA
facebook
SEE WHAT YOUR FRIENDS ARE LISTENING TO
SHARE YOUR MUSIC AND DISCOVER NEW MUSIC ON
FACEBOOK



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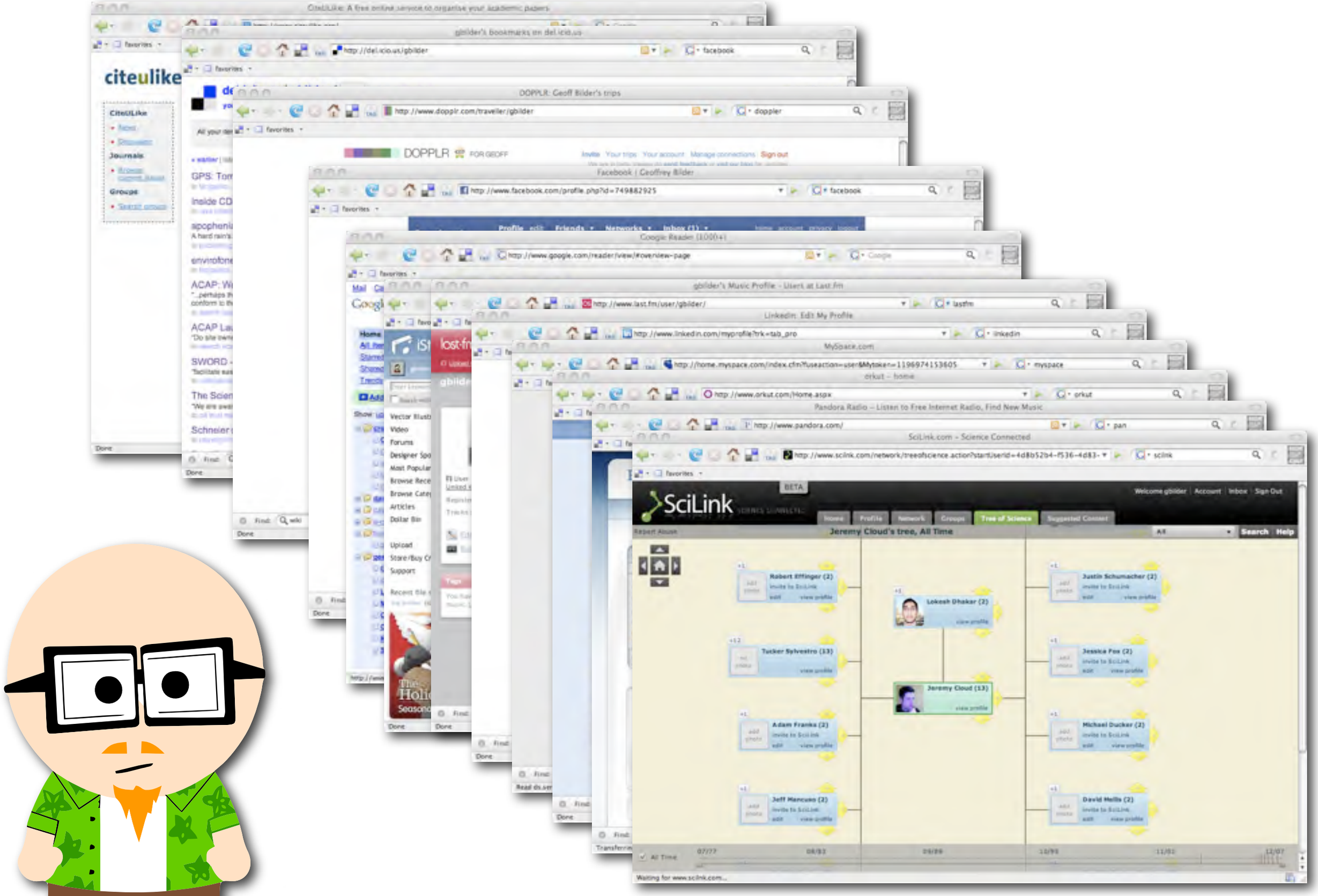
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MySpace.com
http://home.myspace.com/index.cfm?fuseaction=user&MyToken=119697153605
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http://www.orkut.com/Home.aspx
Pandora Radio - Listen to Free Internet Radio, Find New Music
http://www.pandora.com/
SciLink.com - Science Connected
http://www.scilink.com/network/treeofscience.action?startUserId=4d8b52b4-f536-4d83-
SciLink
BETA
Jeremy Cloud's tree, All Time
Robert Effinger (2)
Lokesh Dhakar (2)
Justin Schumacher (2)
Tucker Sylvestro (13)
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Jessica Fox (2)
Adam Franks (2)
Michael Ducker (2)
Jeff Mancuso (2)
David Mellis (2)

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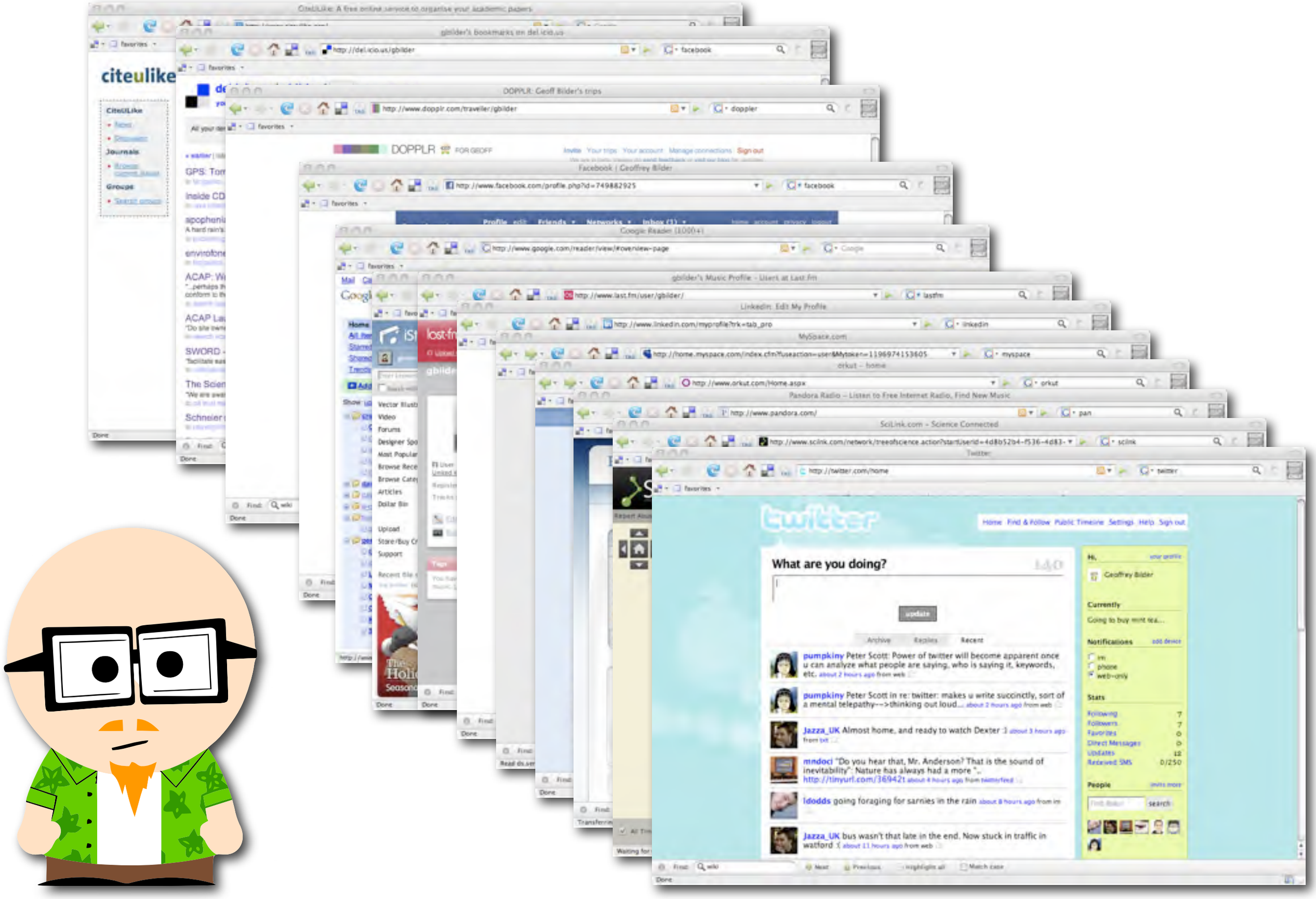
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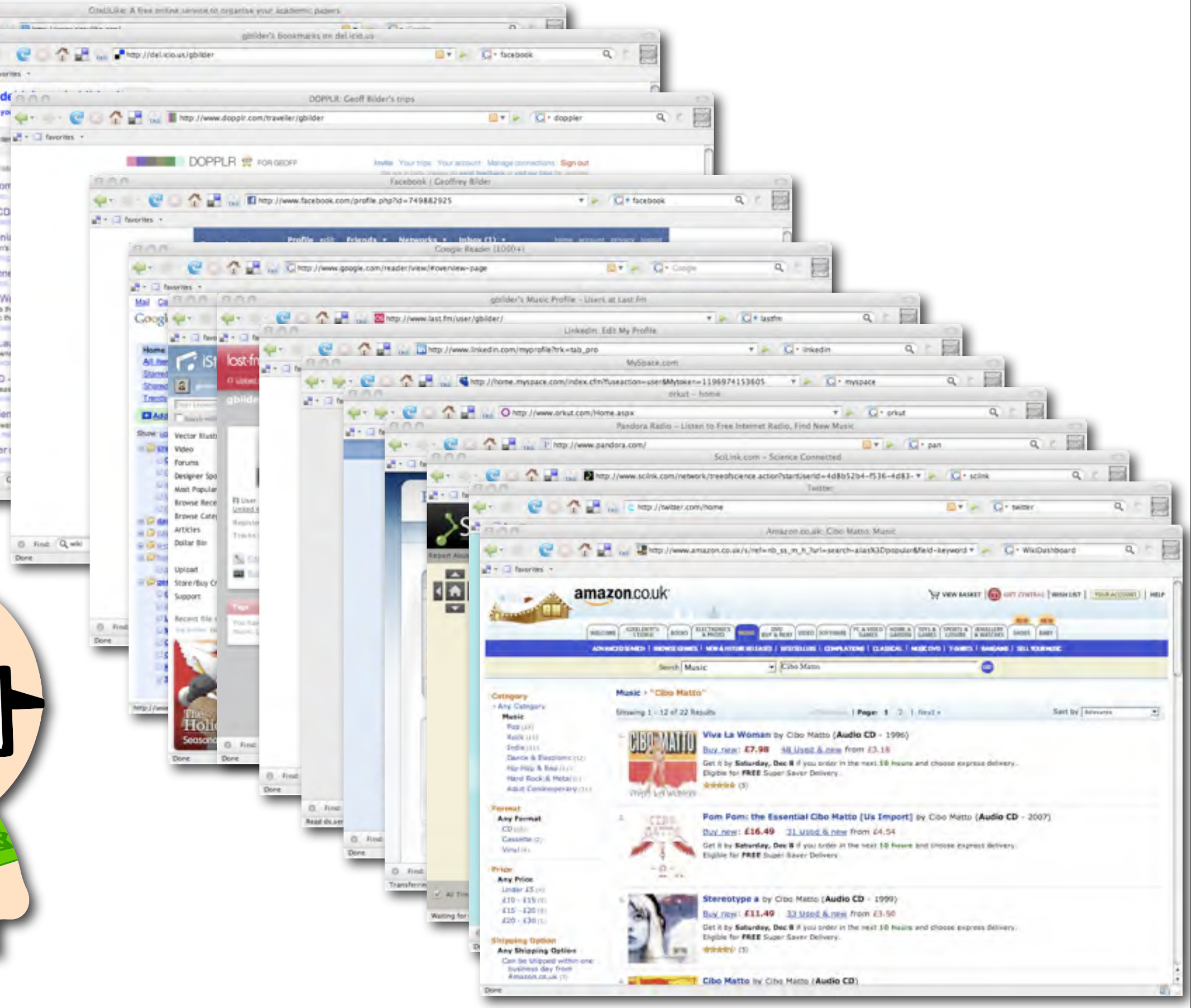
LinkedIn: Edit My Profile
MySpace.com
orkut - home
Pandora Radio - Listen to Free Internet Radio, Find New Music
SciLink.com - Science Connected
Twitter
What are you doing?
update
pumpkiny Peter Scott: Power of twitter will become apparent once u can analyze what people are saying, who is saying it, keywords, etc.
pumpkiny Peter Scott in re: twitter: makes u write succinctly, sort of a mental telepathy-->thinking out loud...
Jazza_UK Almost home, and ready to watch Dexter :)
mndoci "Do you hear that, Mr. Anderson? That is the sound of inevitability": Nature has always had a more "...
http://tinyurl.com/369421
ldodds going foraging for sarnies in the rain
Jazza_UK bus wasn't that late in the end. Now stuck in traffic in watford :(
Geoffrey Bilder
Currently
Going to buy mint tea...
Notifications
Stats
People

crossref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gblider's Music Profile - Users at Last.fm
http://www.last.fm/user/gblider/
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http://www.linkedin.com/myprofile?trk=tab_pro
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http://home.myspace.com/index.cfm?fuseaction=user&MyToken=119697153605
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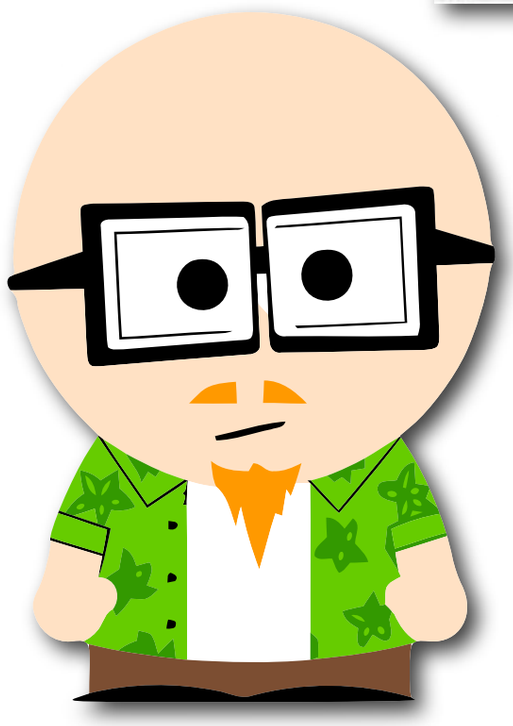
http://www.orkut.com/Home.aspx
Pandora Radio - Listen to Free Internet Radio, Find New Music
http://www.pandora.com/
SciLink.com - Science Connected
Twitter
http://twitter.com/home
Amazon.co.uk: Cibo Matto: Music
amazon.co.uk
Music
"Cibo Matto"
Viva La Woman by Cibo Matto (Audio CD - 1996)
Pom Pom: the Essential Cibo Matto [Us Import] by Cibo Matto (Audio CD - 2007)
Stereotype a by Cibo Matto (Audio CD - 1999)
Cibo Matto by Cibo Matto (Audio CD)



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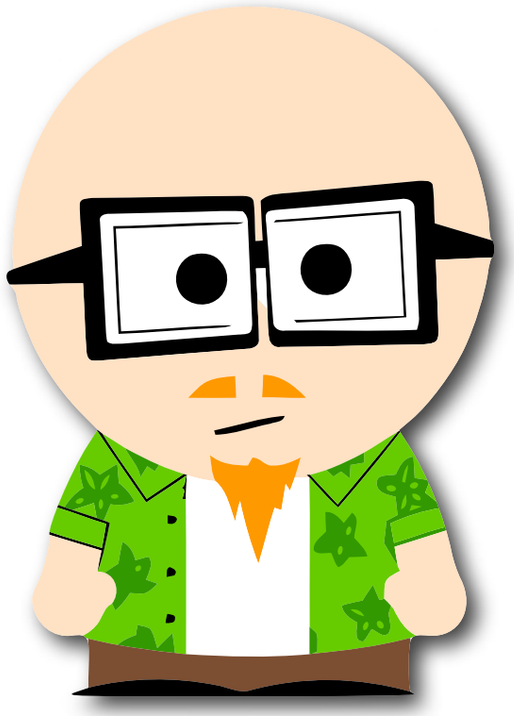
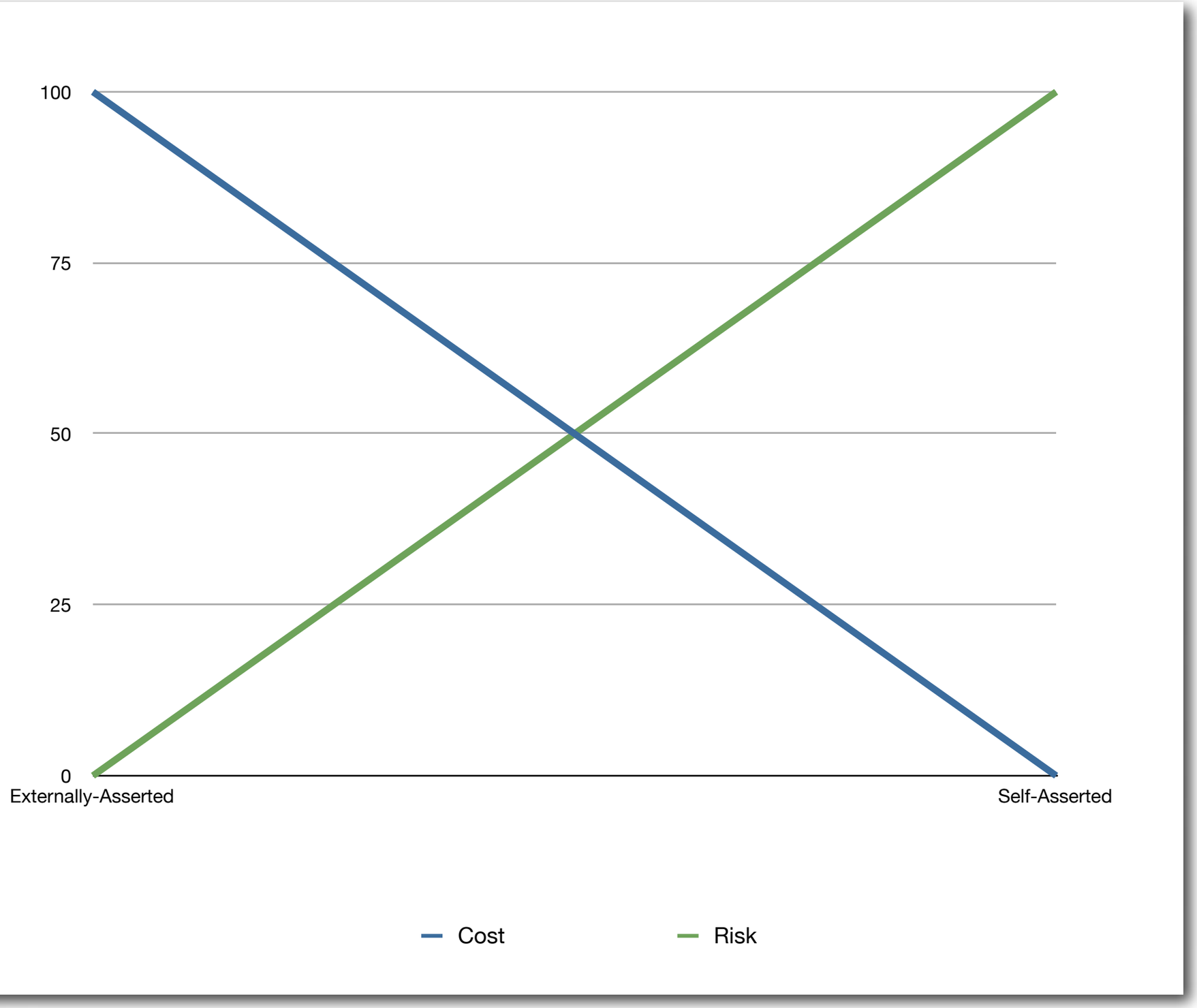
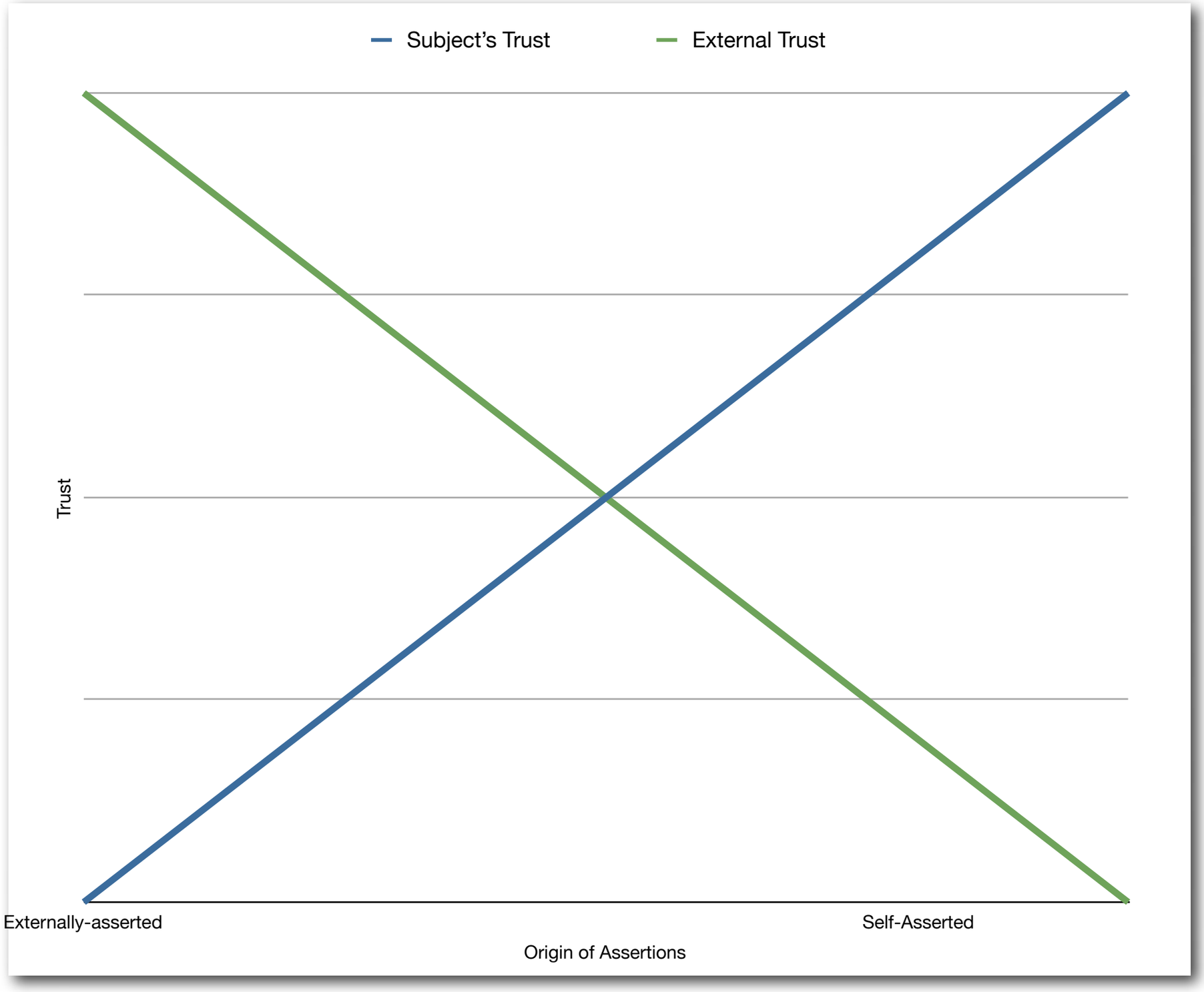
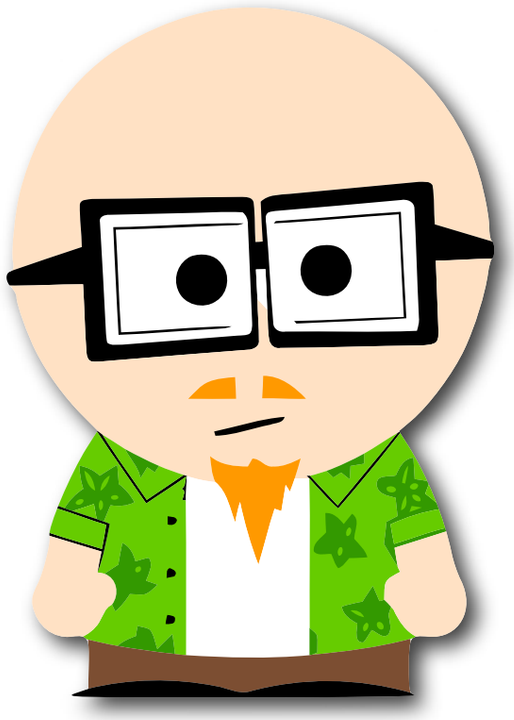
Cost/Risk





Paradox





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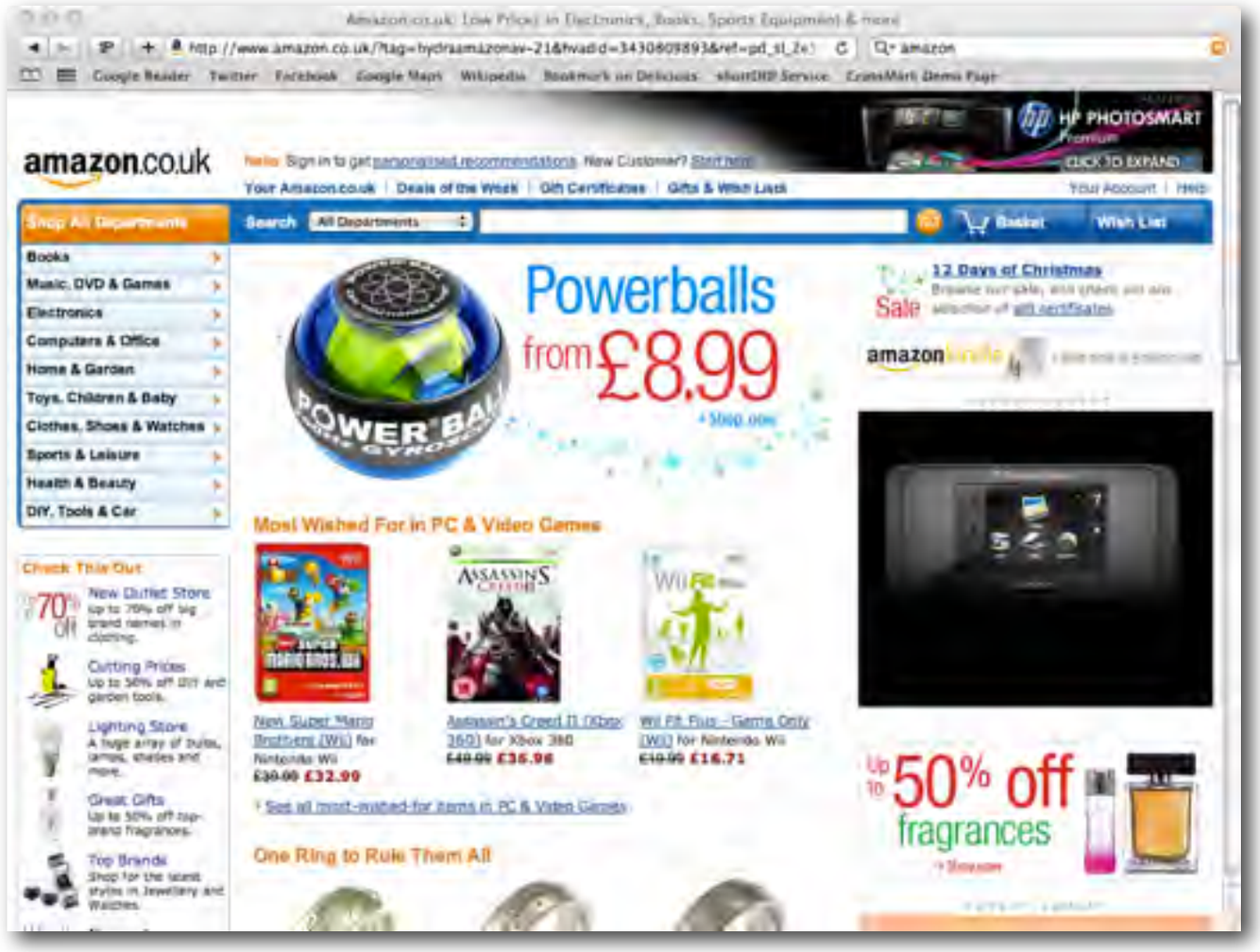
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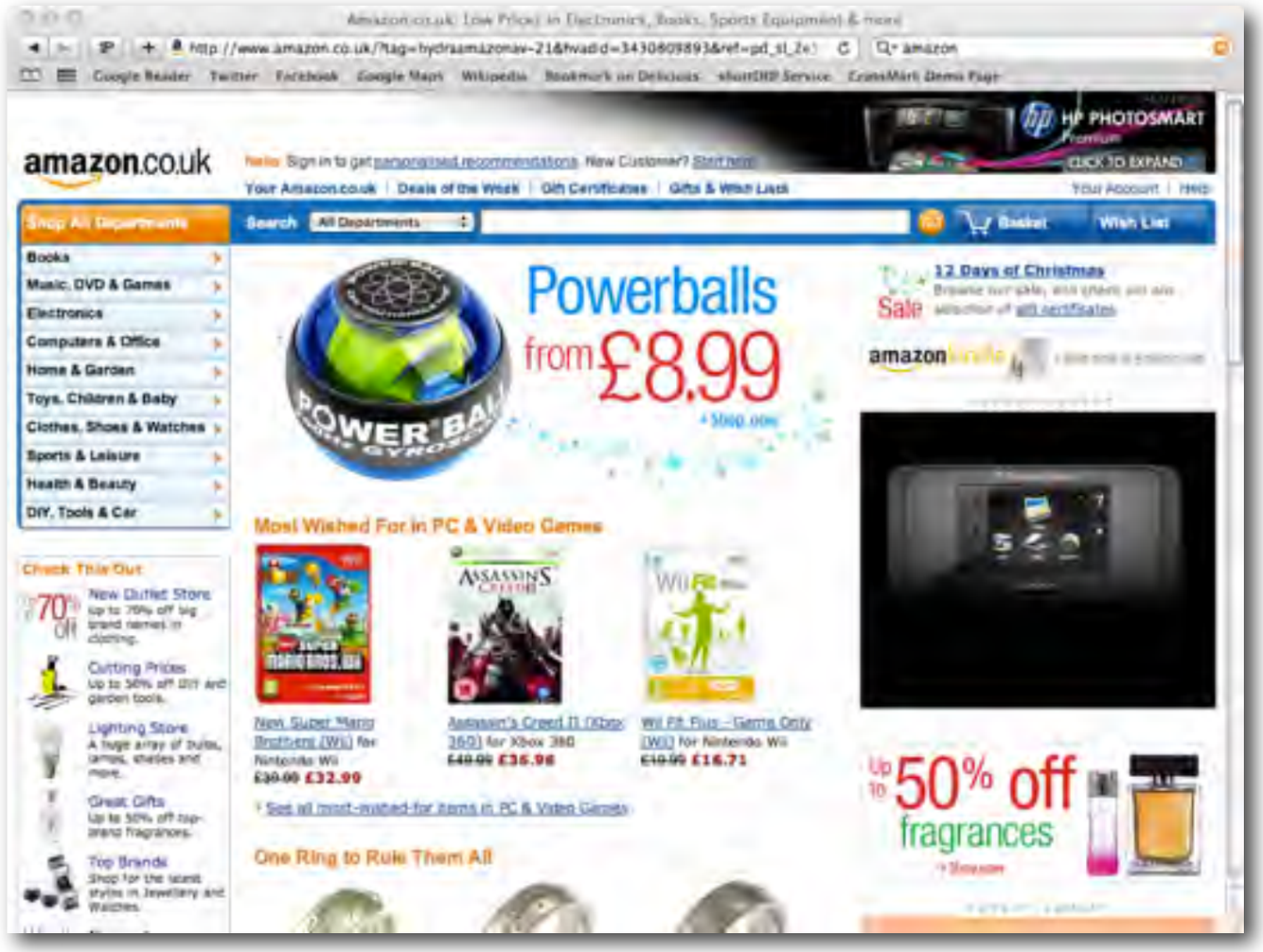
One Ring to Rule Them All
12 Days of Christmas
Up to 50% off fragrances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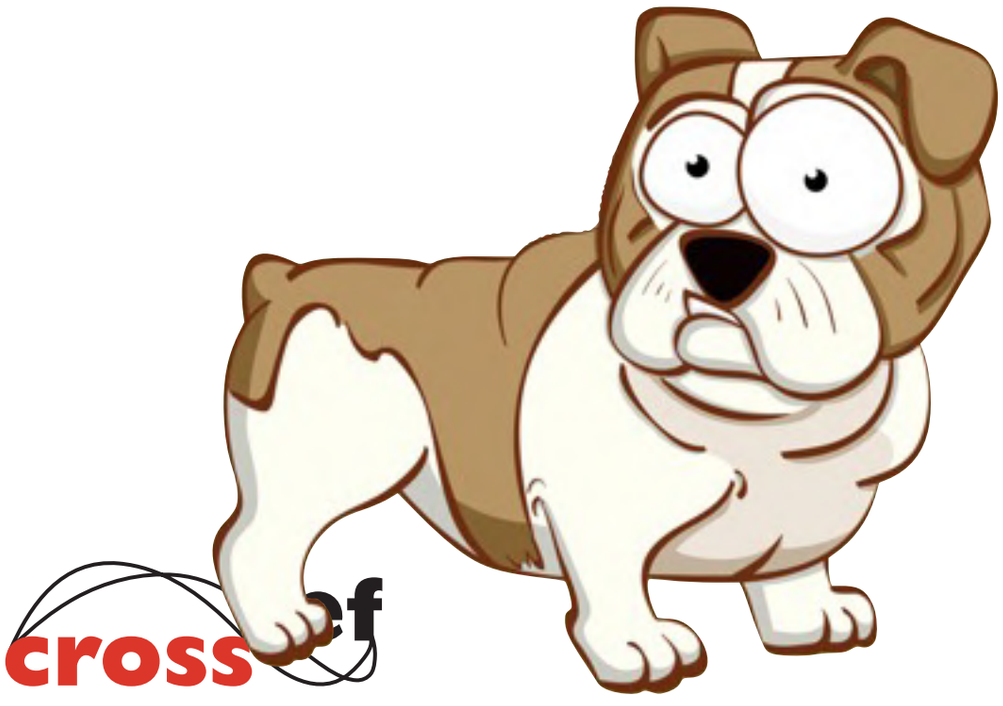
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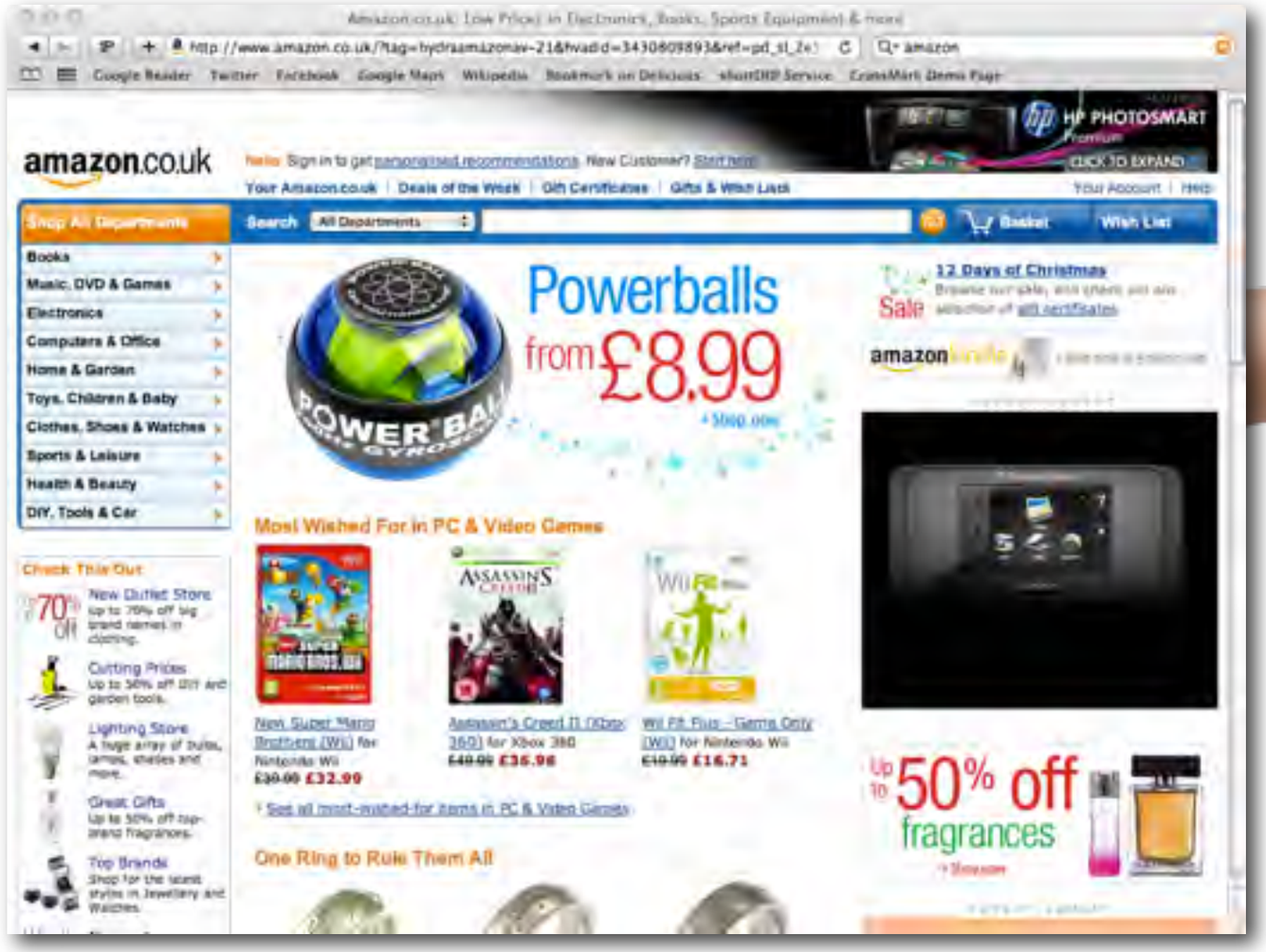
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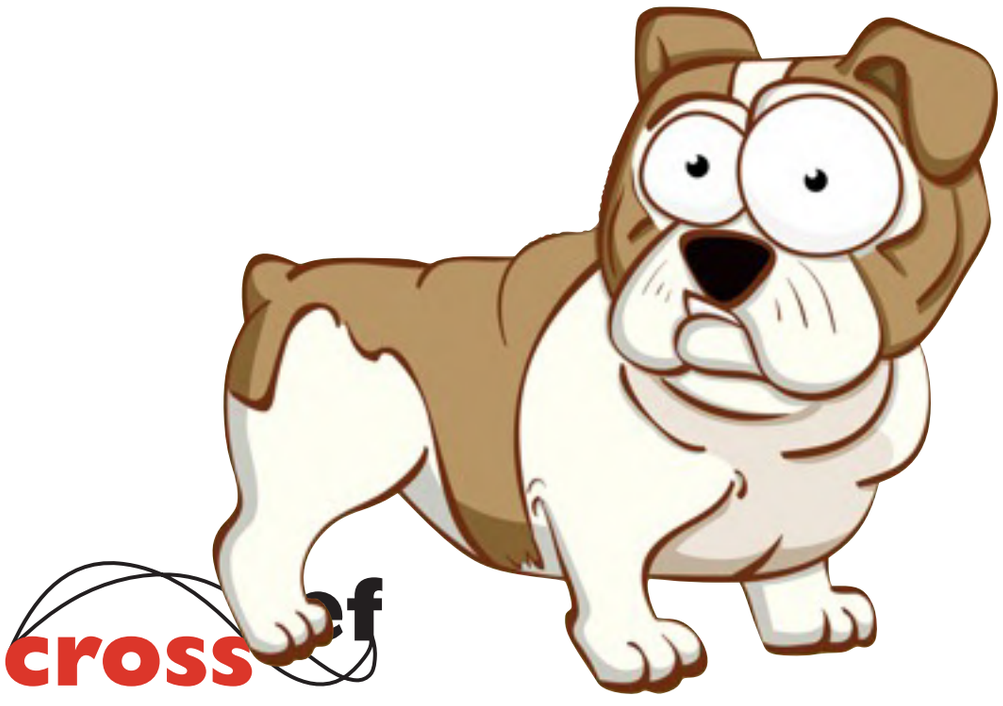
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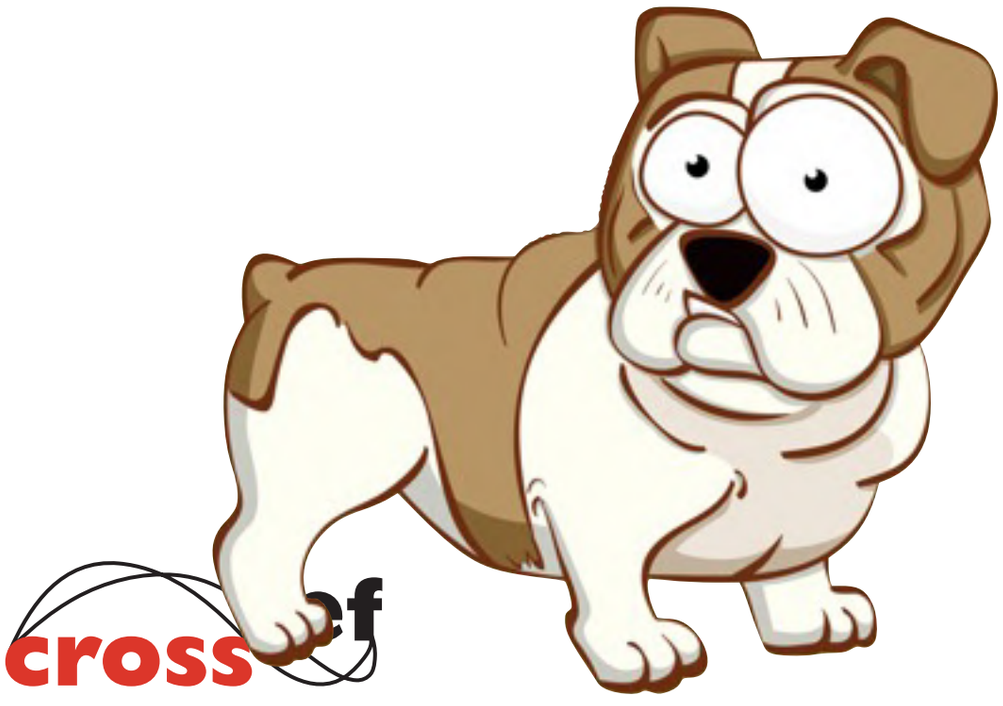
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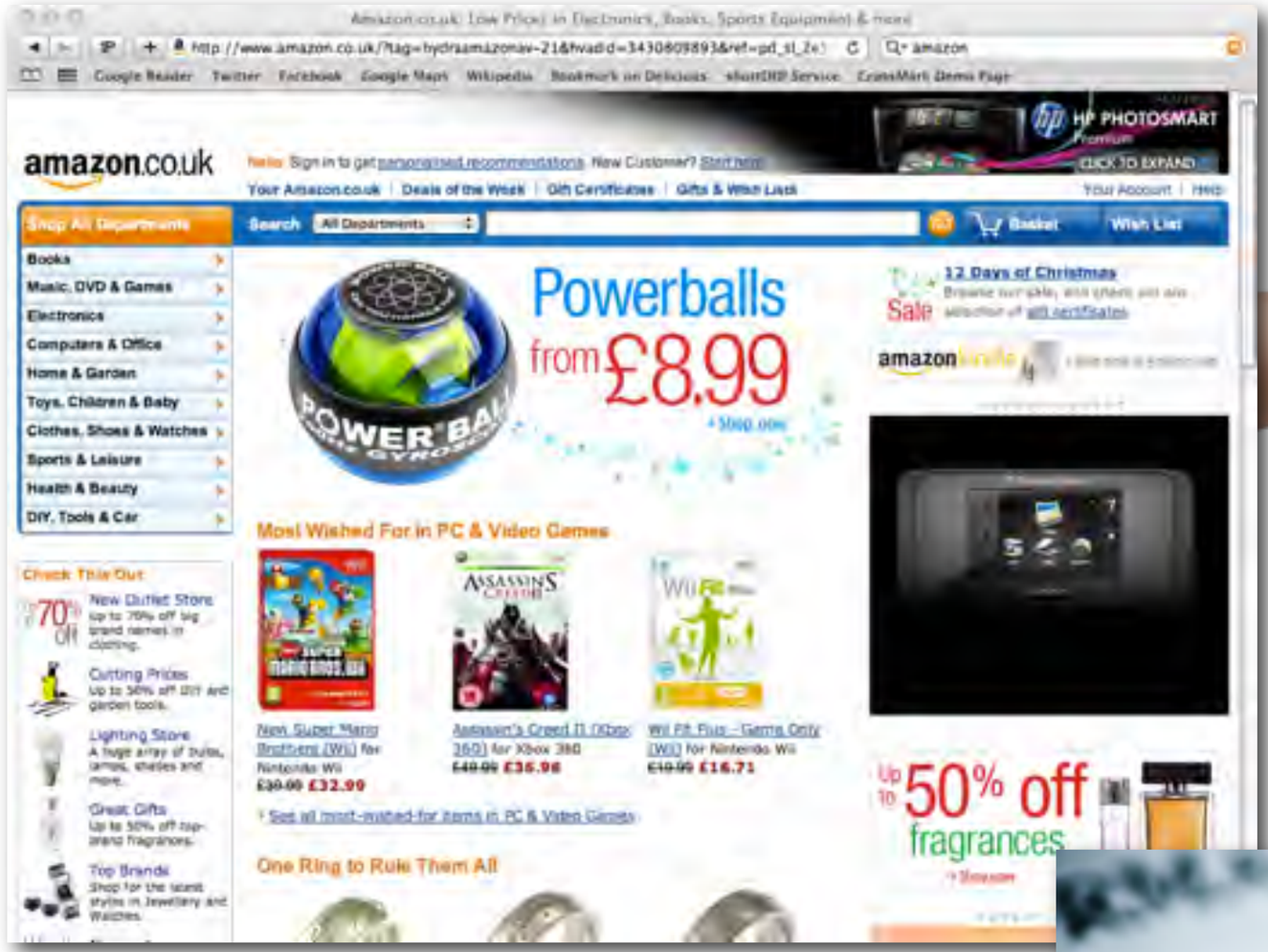
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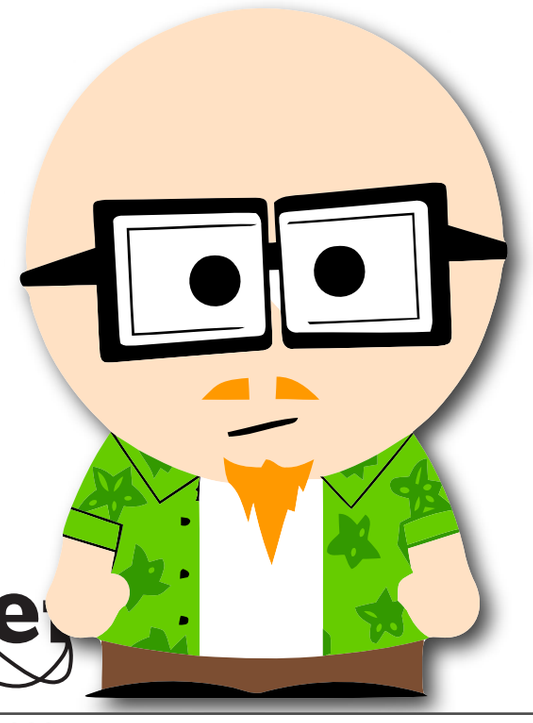

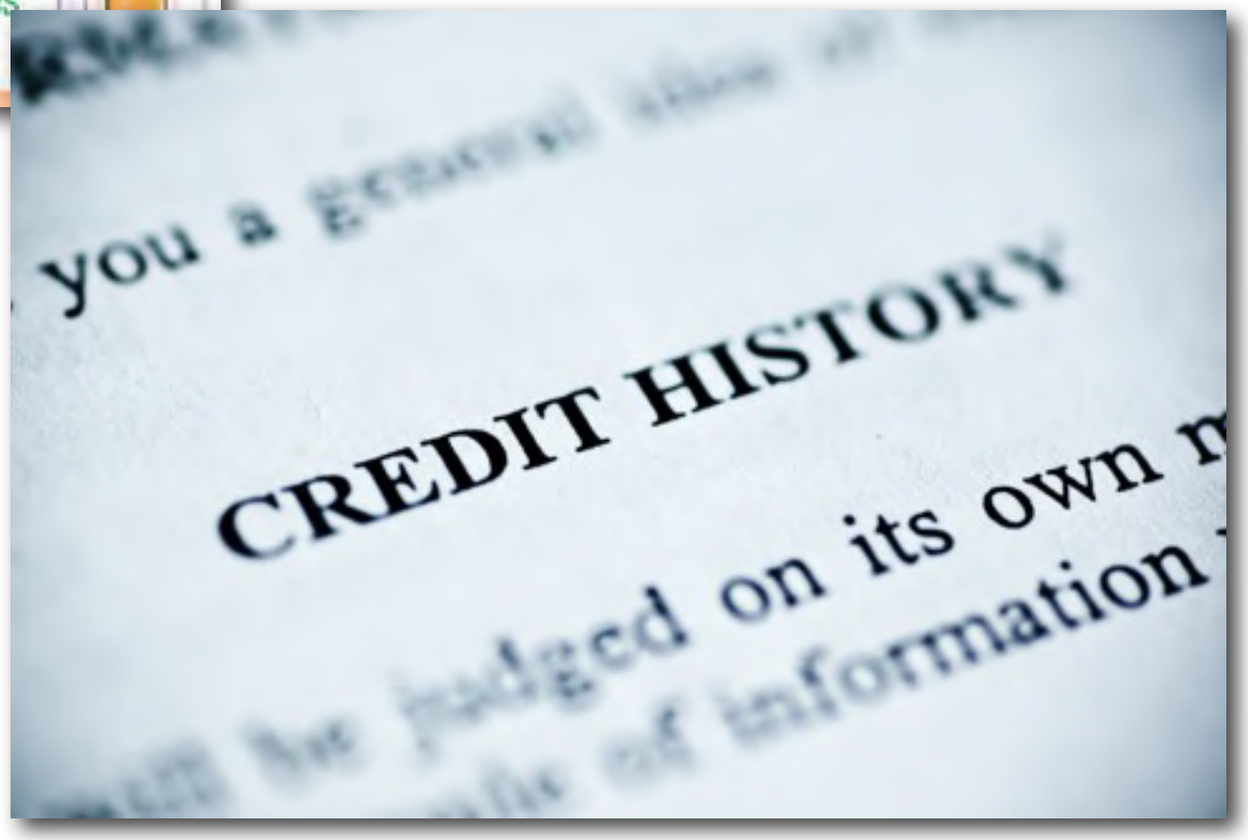
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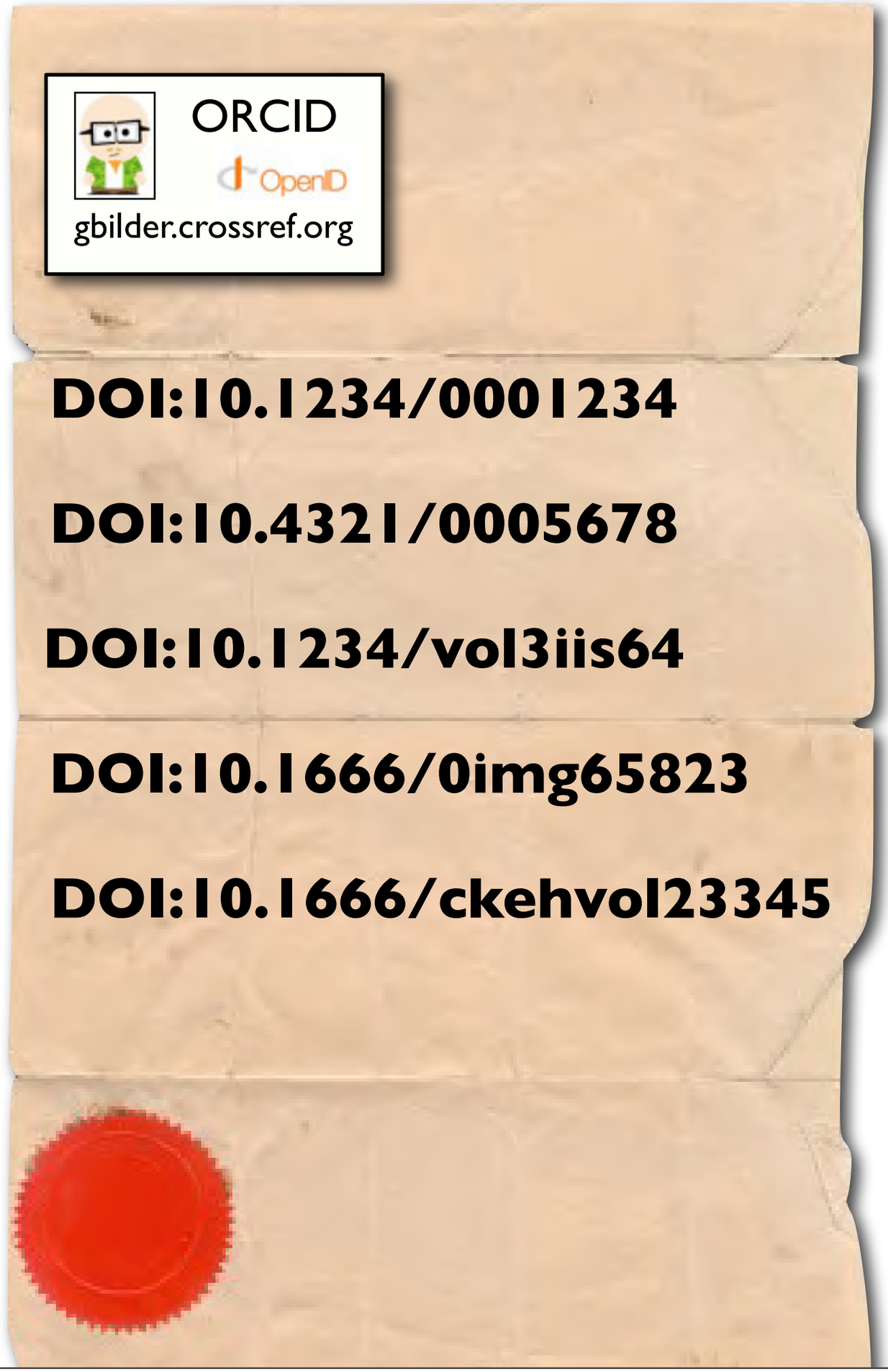
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DOI:10.1666/ckehvol23345

Automated suggestions

Proxy Claims:

Leigh claims Geoffrey wrote this article

Self Claims:

Geoffrey claims Geoffrey wrote this article

Verified Claims:

Geoffrey claims Geoffrey wrote this article, **and** the "Journal of Psychoceramics" confirms that claim

Verified Proxy Claims:

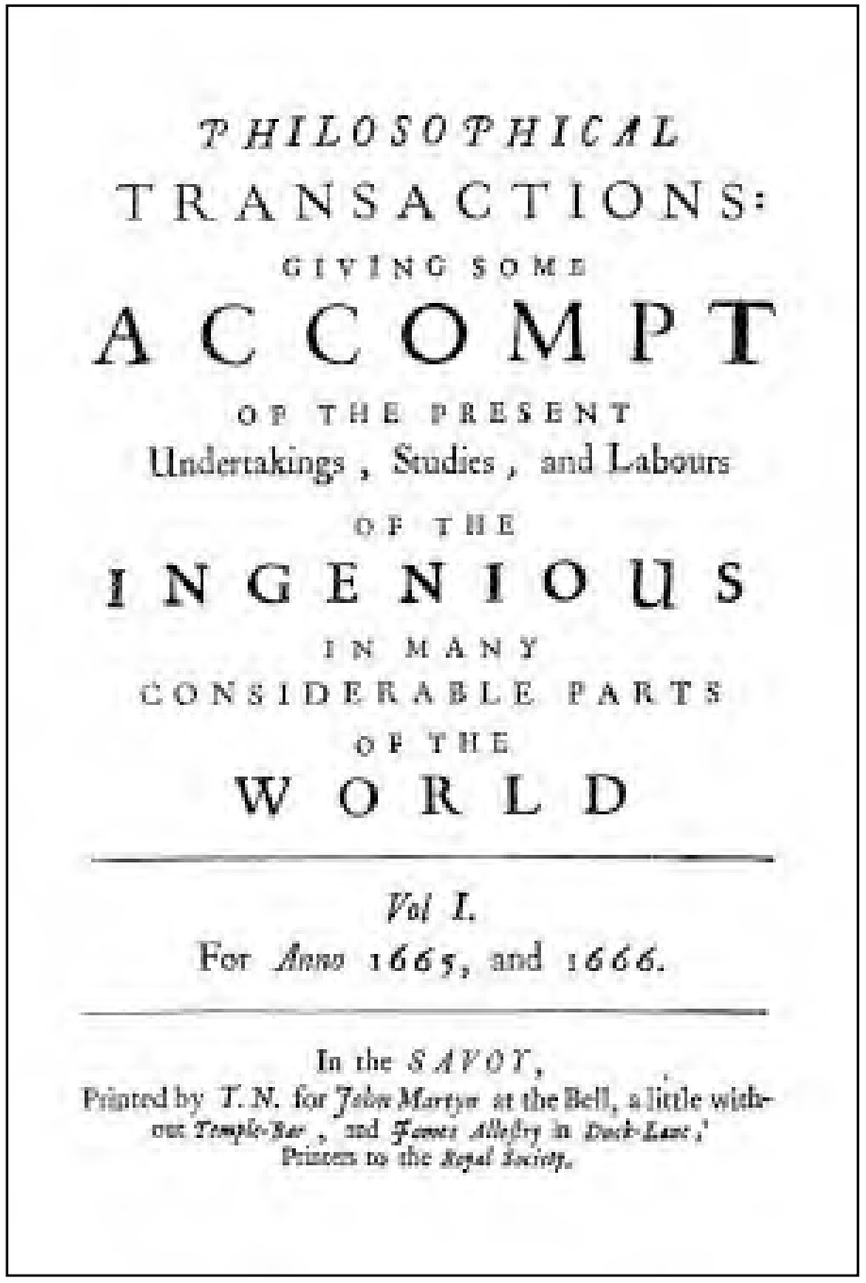
Geoffrey (who has already been verified as an author of this article) claims that Amy was also a contributor to this article

Scope

International
Interinstitutional
Interdisciplinary

4 Centuries of Citation

- The oldest content registered in CrossRef thus far dates from 1665…Philosophical Transactions
- Chain reaction effect in retro-digitization is driven by linkability of older content



PHILOSOPHICAL
TRANSACTIONS:
GIVING SOME
ACCOMPT
OF THE PRESENT
Undertakings, Studies, and Labours
OF THE
INGENIOUS
IN MANY
CONSIDERABLE PARTS
OF THE
WORLD

Vol I.
For Anno 1665, and 1666.

In the SAVOY,
Printed by T. N. for John Martyn at the Bell, a little without Temple-Bar, and James Allestry in Duck-Lane,
Printers to the Royal Society.

4 Centuries of Citation

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1600s	1,674
1700s	4,436
1800s	381,187
1900s	15,750,357
21st C	8,031,503

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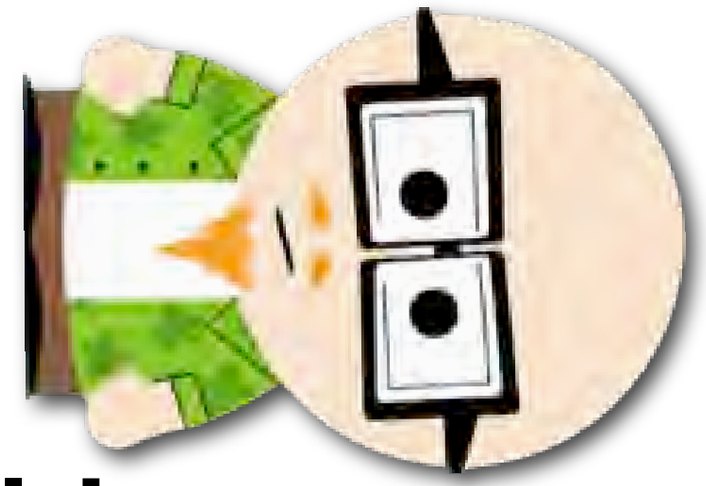

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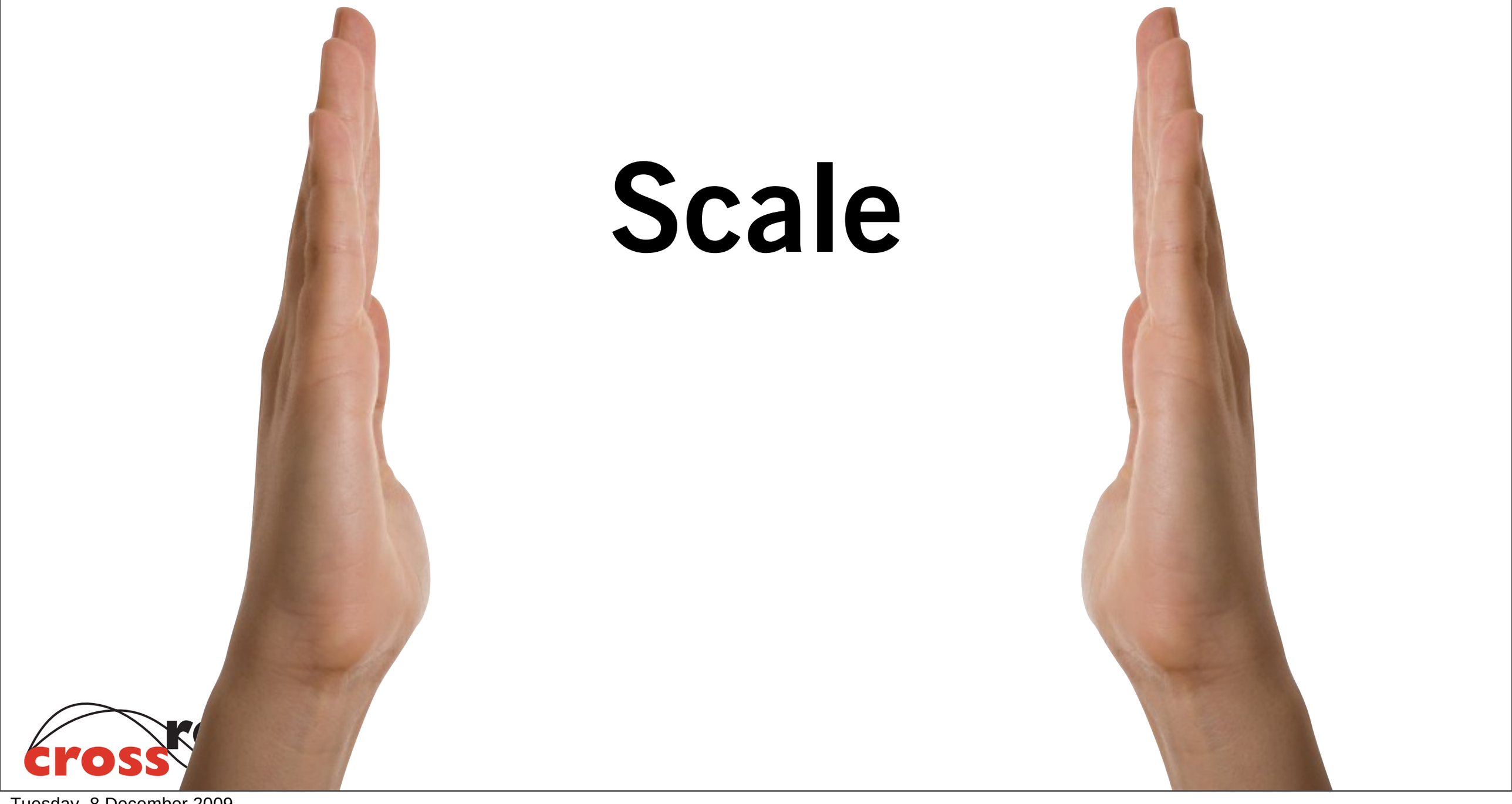

200K DOIs Per Month

~5 Authors Per DOI

96-97%

96-97%

5-21K FAIL

per month

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6 Million Researchers
6.7 Million Graduate Students

Finally...

Principles for the design of a contributor identifier...

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- It should be controlled by the contributor

Thank You

gbilder@crossref.org

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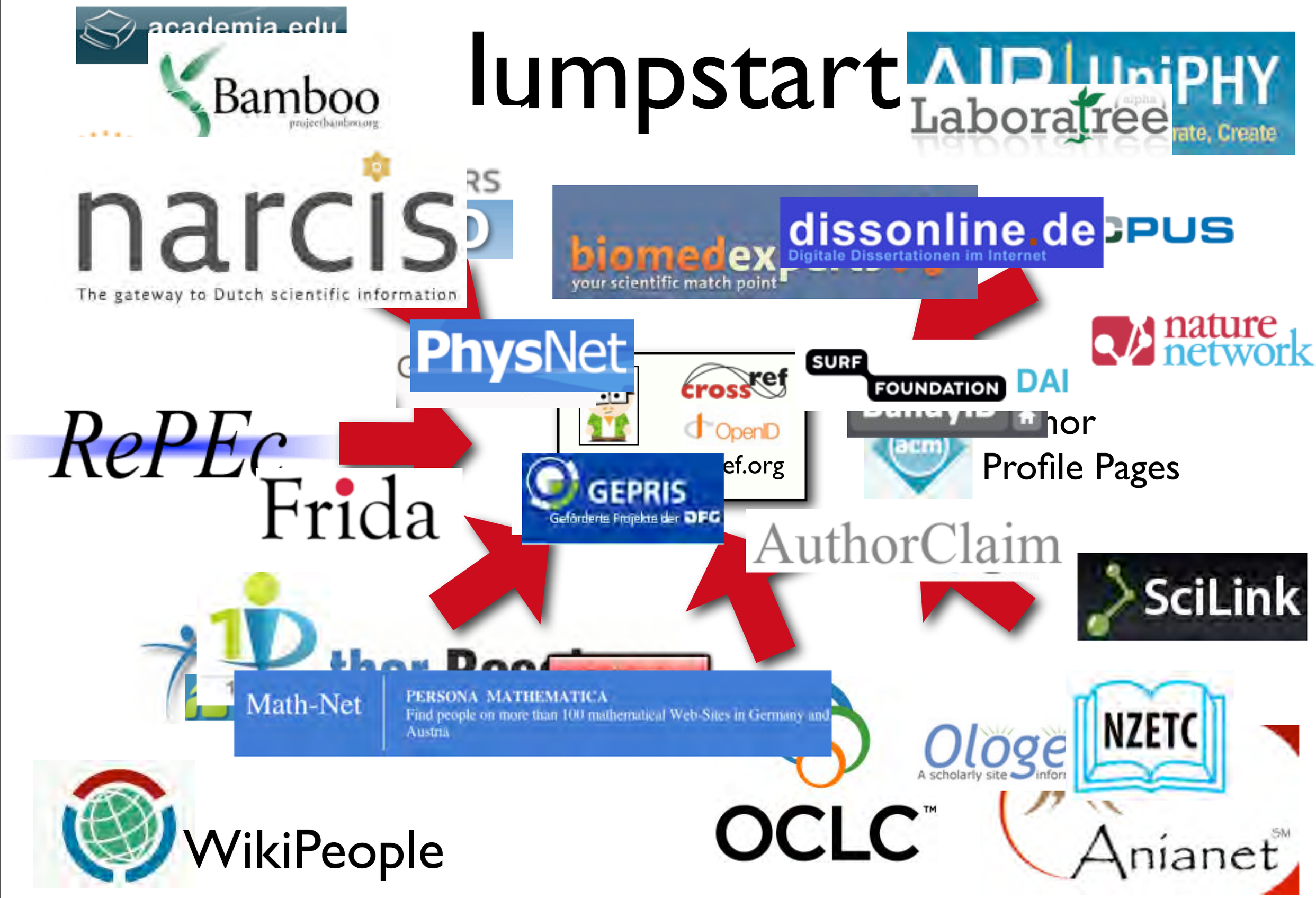
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