

The “New” Web & XML/XQuery

Ideas for Lab Projects

Martin Hentschel



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FAVORITES

Welcome

News Feed

Messages

Events

Find Friends 2

LISTS

Close Friends

Family

ETH Zurich 9

ETH Zurich 2

See all lists...

GROUPS

One-stripe cow lab 3

Create Group...

APPS

Photos

Music

You are currently offline. To chat with your friends, go online.

Update Status Add Photo / Video Ask Question

What's on your mind?

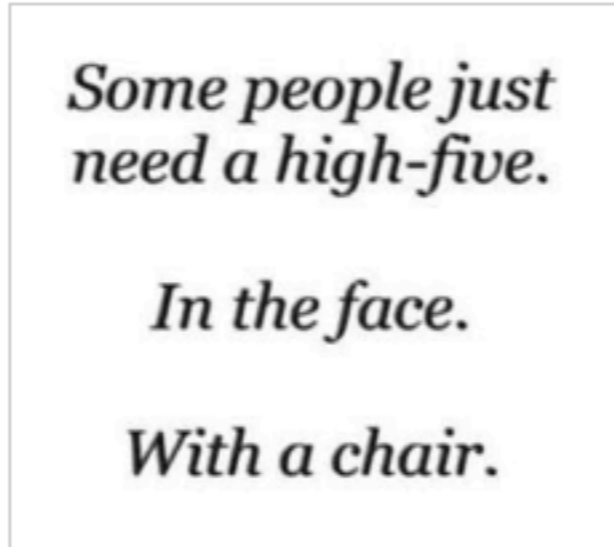
TOP STORIES SINCE YOUR LAST VISIT (7)

39 MORE RECENT STORIES



Olga Steidl

devoted to my 4 hour delay at Vienna airport



By: Dennis Bedard

Unlike · Comment · Share · October 8 at 11:39am ·

You and 22 others like this.

View all 14 comments

Olga Steidl Frank, you are;) October 8 at 2:50pm · Like

Olga Steidl Redgy, baby! We talked about you with Marc yesterday October 8 at 2:54pm · Like

Write a comment...

Create an Event

Maria Grineva a

People You May Know



Tiffany S

3 mutual

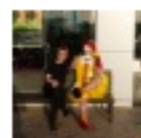
Add F



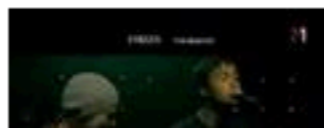
Kurt Stoc

3 mutual

Add F



Maxim Grinev shared a link.



5'nizza - Vesna www.youtube.com

5'nizza - Vesna (live) Russian & Ukrainian Reagoo

What's happening?

Timeline

@Mentions

Retweets

Searches

Lists



newsycombinator news.yc Popular

I quit my job last March and it was a bad idea. j.mp/oF3j6X

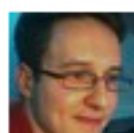
27 minutes ago



SegelReporter SegelReporter.com

Neuer Artikel: : 49er Bronze-Gewinner Jan Peckolt gewinnt 12000 Euro Zukunftspreis für Wellenenergie-Wandler
segelreporter.com/blog/2011/10/1...

38 minutes ago



shcheklein Ivan Shcheklein

Dart's Hello World in JS is 17K lines :) - gist.github.com/1277224

1 hour ago



CHRISDJMOYLES Chris Moyles

Last nights meeting with Mr Beer went well I think. Can't really remember.

1 hour ago



mariagrineva Maria Grineva

Looks like it should work instagr.am/p/P5cqC/

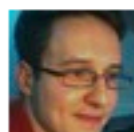
1 hour ago



OlgaSteidl Olga Steidl

according to [#xylogic](#) report in Russia more people download SPB TV than Yandex.Metro:) impressed

1 hour ago



shcheklein Ivan Shcheklein

Cool! The Reverse Vending Machine That Takes Old Phones
techcrunch.com/2011/10/11/vid...

1 hour ago

Your Tweets **908**

19 hours ago : [@maxgrinev](#) Who likes Beyonce

Following **67**

Followers **46**



Who to follow · [refresh](#) · [view all](#)



jason_j Jason Jackson · [Follow](#)

Followed by [@BackTypeTech](#) and others.



bcoverston Ben Coverston · [Follow](#)

cypherpunk, DataStax Cassandra, Hadoop

Trends: Worldwide · [change](#)

Hi Rihanna

[#LookAtMeNow](#)

[#NowThatRIMisDown](#)

[#horrorstcoms](#)

Messi y Bojan

Feliz Día de la Hispanidad

VIVA ESPAÑA

Shady 2.0

Sarah Harding

Art Clokey

Twitter for iPhone

The official Twitter app for iPhone.



Facebook, Twitter, etc. = Old Web

- ▶ Too many “friends”: real friends, family, random people met at conferences...
- ▶ One common timeline: huge & messy
- ▶ You are interested in one thing at a time: music, video, girls, XML programming
- ▶ So, you would like to “change the room” and hang out with friends interested in the same thing at the same time

A landscape photograph of a green field with a single tree on the left and a path leading into the distance. The image is split vertically, with the left half showing a clear blue sky and the right half showing a bright, overexposed sky. The text is overlaid on the right side of the image.

The same thing at the same time

- ▶ Same thing: meet friends and other people interested in the same topic
- ▶ Same time: hang out and collaborate in real time

Room info

The main interface features a DJ booth with five laptops. The DJ, Hemasail, is shown with a blue tooltip: "DJ Hemasail, 155 DJ points, 8 fans". The turntable's display shows "DESI MOUSE - M" and "' THE COCKROACH (LIVE 'BOOTLEG')". Below the turntable is a crowd of colorful avatars. A gauge at the bottom indicates the song's reception, with "Skip Song!" on the left and "Rock Out!" on the right. The gauge is currently in the "Rock Out!" zone, with "Lame" on the left and "Awesome" on the right.

My DJ Queue

[+ Add Songs](#)

- Kick, Push** BUY Lupe Fiasco - 4:16
- Roses** BUY OutKast - 6:09
- Valerie (Glee Cast Version)** Glee Cast - 3:29
- Ms. Jackson** BUY OutKast - 4:30
- Young Folks** BUY Peter Bjorn And John - 4:29
- Won't Go Quietly** BUY Example - 4:02
- Big Girl (You Are Beautiful)** Mika - 4:07

Chat ding off

Wheeler_ started playing "Doin' The Cockroach (Live 'Bootleg' Version)" by Modest Mouse

@fredwilson: early MM is like early KOL


@fredwilson: good

enter a message



Meet the “New” Web

- ▶ Turntable.fm: Hang out with some of your Facebook friends and listen to music
- ▶ Shaker: Hang out with some of your Facebook friends in a bar; chat and drink virtual beer
- ▶ Google+ Hangouts: Video chat
- ▶ Chill: Turntable for video
- ▶ Your project could be here :-)

A landscape photograph showing a vast green field under a clear blue sky. A single, large, leafy tree stands prominently on the left side of the field. The overall scene is bright and open.

The “New” Web & XML/XQuery

Ideas for Lab Projects

- ▶ **Real-time Tutorials:** Program a website where people can meet and discuss XML/XQuery programs in real time
- ▶ **Waterfall:** Program a website to collaboratively analyze data streams

Your Website

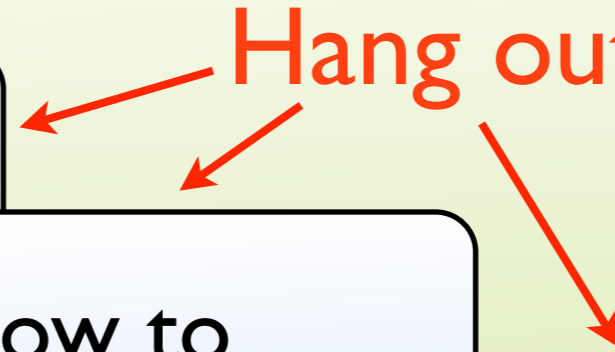
Real-Time XQuery Tutorials

How to trim
a string in
XQuery?

How to
crawl a
webpage?
I still don't
get it!!!

I want to
convert my
old PHP web
app to
Sausalito.
Help!!!!

Hang out & discuss



Your Website

How to trim a string in XQuery?

XML input

```
<doc>
I'm super
boring
</doc>
```

XQuery

```
substring(
doc.text(),
1,9)
```

Result

```
I'm super
```

Discussion

People online

Your Website

All people
see updates
in real time

How to trim a string in XQuery?

XML input

```
<doc>
I'm super
boring
</doc>
```

XQuery

```
substring(
doc.text(),
1,9)
```

Result

```
I'm super
```

Discussion

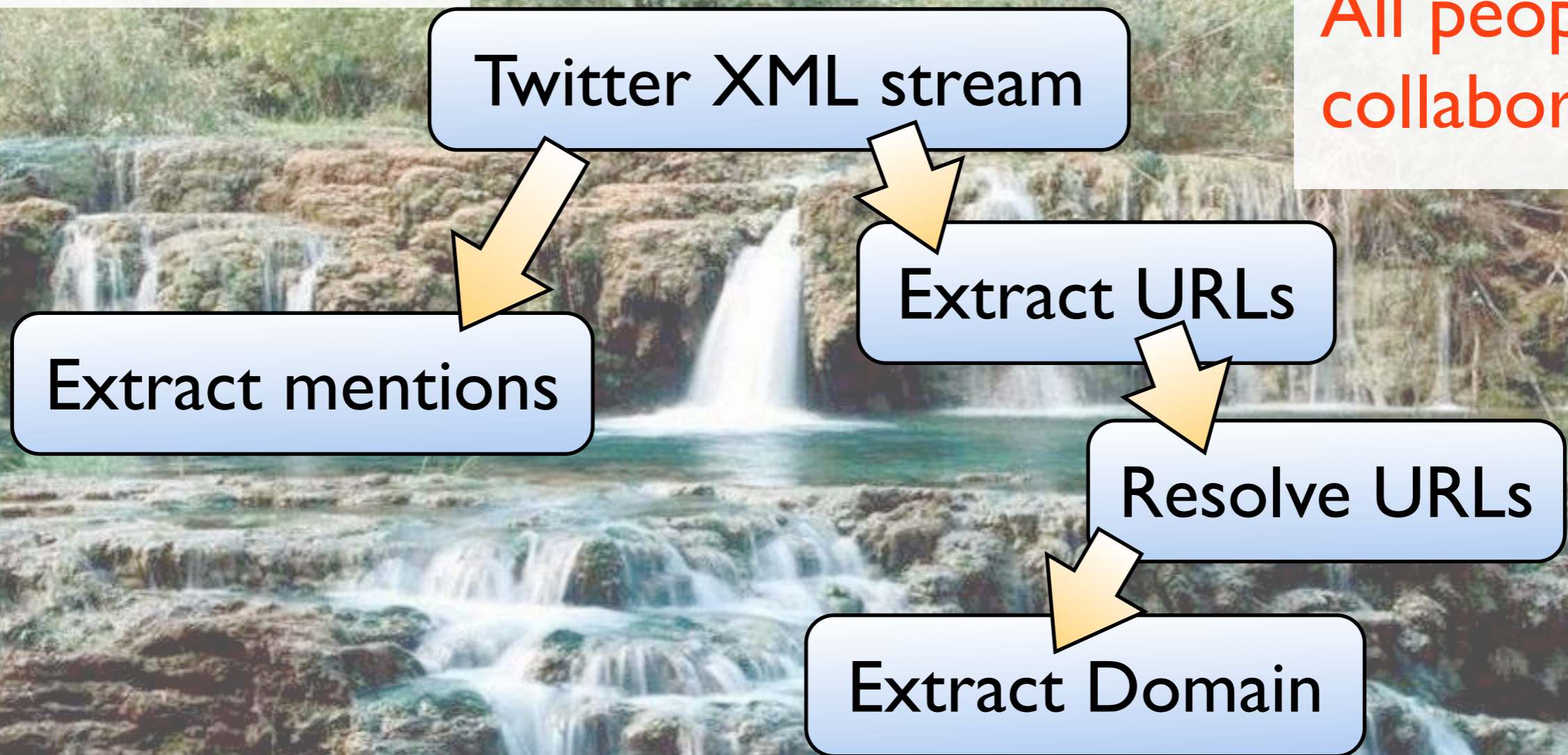
People online

Waterfall Project

Twitter XML stream



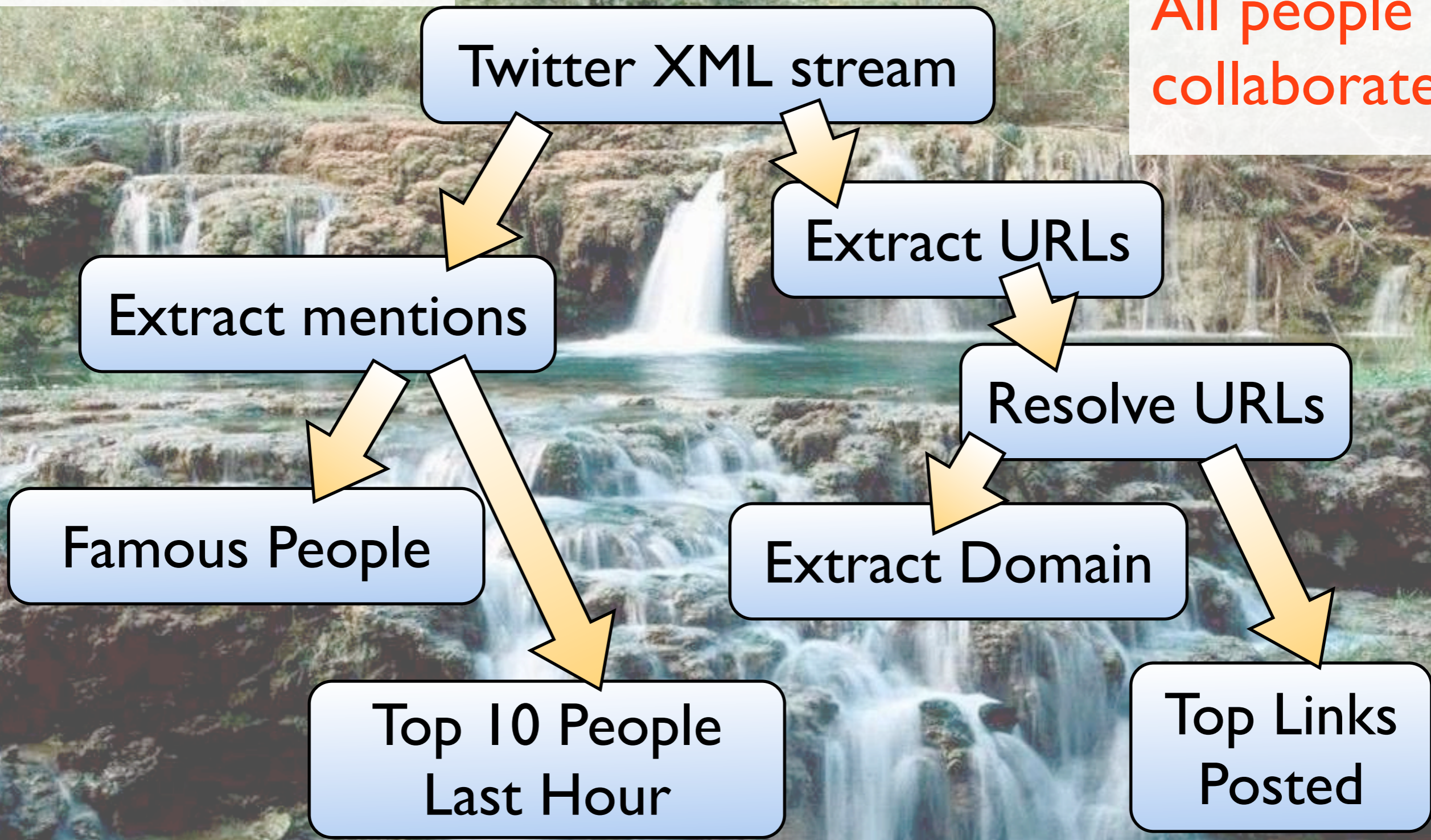
Waterfall Project



All people collaborate

Waterfall Project

All people collaborate



Twitter XML stream

Extract mentions

Famous People

Top 10 People Last Hour

Extract URLs

Resolve URLs

Extract Domain

Top Links Posted

The “New” Web & XML/XQuery

Ideas for Lab Projects

- ▶ Real-time Tutorials: Program a website where people can meet and discuss XML/XQuery programs in real time
- ▶ Waterfall: Program a website to collaboratively analyze data streams
- ▶ Your own ideas

More about the “new” web

- ▶ <http://mint.typepad.com/blog/2011/10>