Moving:
An exploration of how far we go for work.

Solomon Bisker
Special Topics in Interactive Art and Computational Design, Spring 2010
(Golan Levin's Studio)

Solomon Bisker

100 Memorial Dr. 11-1B Cambridge, MA 02142
sbisker@alum.mit.edu
Portfolio at www.biskerrific.com

Objective

To create engaging and inspiring experiences with a blend of computer science, interaction design and user research

Education

Massachusetts Institute of Technology, Cambridge, MA
Masters of Engineering, Computer Science and Engineering (Course VI)....February 2008
Thesis: Mobile Experience Laboratory,
MIT Design Laboratory - Advisor, Dr. Federico Casalegno
"Applications of Mobile Barcode Recognition to Real-time Events and Gatherings"

Bachelors of Science, Computer Science and Engineering (Course VI-III)....June 2006

Williamsville East High School, Buffalo, NY

Human-Computer Interaction (HCI) Electives

At MIT: Design Without Boundaries, Pervasive Computing, New Paradigms in HCI, User Interface Design and Implementation
At Harvard Extension: Analog Electronics Lab (Fall 08)

Work History

Software Interaction Designer....Cambridge Systematics
Cambridge, MA, March 2008-February 2009
- Designer for small software consulting team serving the federal and state transportation industry
- Responsible for design sketching, prototyping, usability testing and user research
- Additionally served as front-end engineer, building Javascript and Flex prototypes and proofs of concept

Research Assistant....MIT Mobile Experience Lab/Design Lab
Cambridge, MA, 2007-2008
- Designed and built mobile and web technology to explore innovative applications connecting people with their physical environments.
- Helped run MAS.551, Design Without Boundaries, a studio using technology to educate youth on sustainable living
- Built lab website and maintained lab computer systems

Teaching Assistant....MIT Civil and Env. Engineering
Cambridge, MA 2006-2007
- Developed course materials for 1.204, a algorithms class for non-CS majors
- Co-recitation instructor for 1.264, a database and web development class for non-CS majors.

Resume: Statement of corporate conformity?...

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…or reminder of who I am, and where I've been?

Google filetype:pdf resume.pdf   Search   Advanced Search

Web ➕ Show options...   Results **1 - 10** of about **2,110,000** for **filetype:pdf resume.pdf**. (0.37 seconds)

[PDF] **David Victor Morris**
File Format: PDF/Adobe Acrobat - Quick View
Morris, **resume**, p. 2 of 2. Professional. Computer Programming. • Proficient in C++, Qt, C#
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7, 2009. Education. Ph.D 1994 State University of New York, Buffalo, NY, USA ...
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RESUME. July, 1999. 47-2523. E-Mail Address ïs:J. TECHNICAL. SUMMARY. Software:
Experience Level: Years: Last Used: Visual Basic ...
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[PDF] **Kathy Schrock's Resume**
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508-240-1464 kathy@kathyschrock.net. C A R E E R S U M M A R Y ...
kathyschrock.net/kbsres.**pdf** - Similar - 💬 ⬆ ✖

[PDF] **JOY GARNETT**
File Format: PDF/Adobe Acrobat - Quick View
JOY GARNETT http://joygarnett.com. Lives and works in New York City. SOLO
EXHIBITIONS. 2010 (TBA). Winkleman Gallery, New York. China Three Gorges Project . ...
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The most popular reason for moving is a change of job (according to Ryder.)
What do the worlds' attempts at getting hired tell us about who we are
– and where our lives take us?

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Portfolio at www.bisk...

Places I used to live.

Where I live now

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Idea: Find a ton of resumes. Find where people live now (ZIP CODE), and where they used to live (CITIES.)

Google

filetype:pdf resume.pdf

Web ➕ Show options...

[PDF] **David Victor Morris**
File Format: PDF/Adobe Acrobat - Quick View
Morris, **resume**, p. 2 of 2. Professional. Computer Programming. • Proficien
.NET, SQL Server, OpenGL, JavaScript, XML, XHTML, CSS, PHP, ...
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7, 2009. Education. Ph.D 1994 State University of New York, Buffalo, NY, l
www.csee.umbc.edu/~krishna/Sivalingam-**Resume.pdf** - Similar - 💬 ⬆ ✕

[PDF] **C:\Users\apapadimoulis\Desktop\resume.pdf**
File Format: PDF/Adobe Acrobat - Quick View
RESUME. July, 1999. 47-2523. E-Mail Address ïs:J. TECHNICAL. SUMMA
Experience Level: Years: Last Used: Visual Basic ...
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[PDF] **Kathy Schrock's Resume**
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KATHLEEN BECK SCHROCK. 45 Starlight Lane, Eastham, MA 02642. 508
508-240-1464 kathy@kathyschrock.net. C A R E E R S U M M A R Y ...
kathyschrock.net/kbsres.**pdf** - Similar - 💬 ⬆ ✕

[PDF] **JOY GARNETT**
File Format: PDF/Adobe Acrobat - Quick View
JOY GARNETT http://joygarnett.com. Lives and works in New York City. S
EXHIBITIONS. 2010 (TBA). Winkleman Gallery, New York. China Three Gc
www.firstpulseprojects.com/jgarnett-**resume.pdf** - Similar - 💬 ⬆ ✕

🔴🟡🟢 getresumeurls.py

Participants Announce Previous Symbol Next Symbol Previous Change

getresumeurls.py

1:0   <No selected symbol> ⬍

```python
#Google API is totally lame and restricts us to 64 resumes per query.
#We get around this by augmenting the search query on each iteration, and
#(perhaps?) using MD5 file sums later to check for duplicates

#For geographic uniformity, we could go by states
#states = ["AK"]
#, "AL", "AR", "AZ", "CA", "CO", "CT", "DC", "DE", "FL", "GA",  "HI", "IA",
"ID", "IL", "IN", "KS", "KY", "LA", "MA", "ME", "MD", "MI", "MN", "MO", "MS",
"MT", "NC", "ND", "NE", "NH", "NJ", "NM", "NV", "NY", "OH", "OK", "OR", "PA",
"RI", "SC", "SD", "TN", "TX", "UT", "VT", "VA", "WA", "WI", "WV", "WY"]

#Cliched resume phrases. These are used to avoid skewing geographic
distribution.
#This list should include CareerBuilder common search terms, but shouldn't be
biased towards
#"lame" resumes.
#cliche = ["\"responsible for\"", "\"developed\""]
cliche = ["\"led\"", "\"education\"", "\"objective\"", "\"available upon request
\"", "\"related coursework\"", "\"work experience\"", "\"employment history\"",
"\"experience\"", "\"delegated\"", "\"address\"", "\"team\"", "\"references\"",
"\"work history\"", "\"project\"", "\"interests\"", "\"volunteer\"", "\"work\"",
"\"past\"", "\"history\"", "\"reference\"", "\"phone\"", "\"e-mail\"", "\"skills
\""]

for q in range(len(cliche)):
    for i in range(0, 19):
```
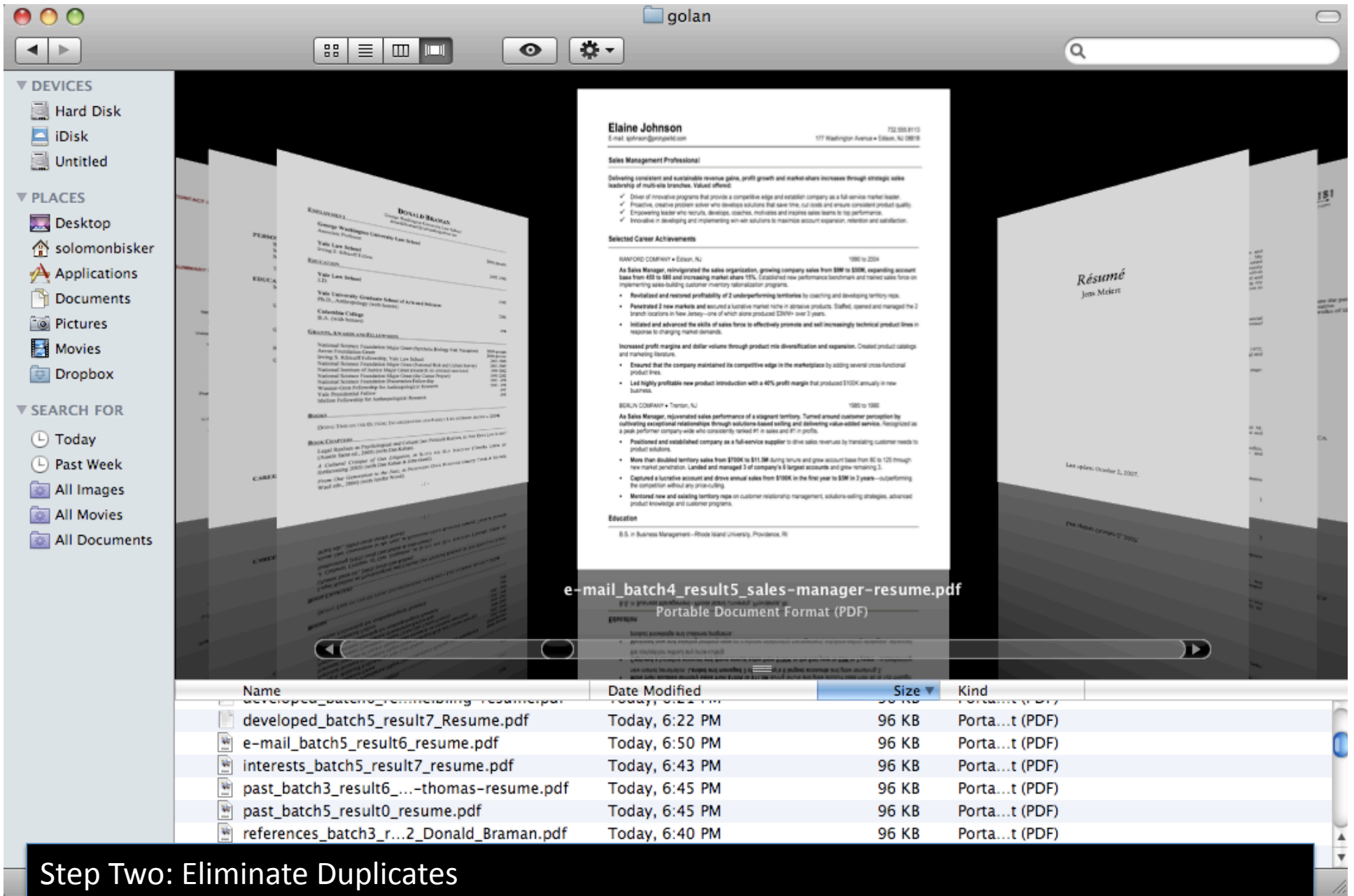
Step One: Collect Resumes
Python script uses the Google and Bing APIs to find and download resumes, using the query
"filetype:pdf resume.pdf". "Buzzwords" salt searches to drum up additional unique results.
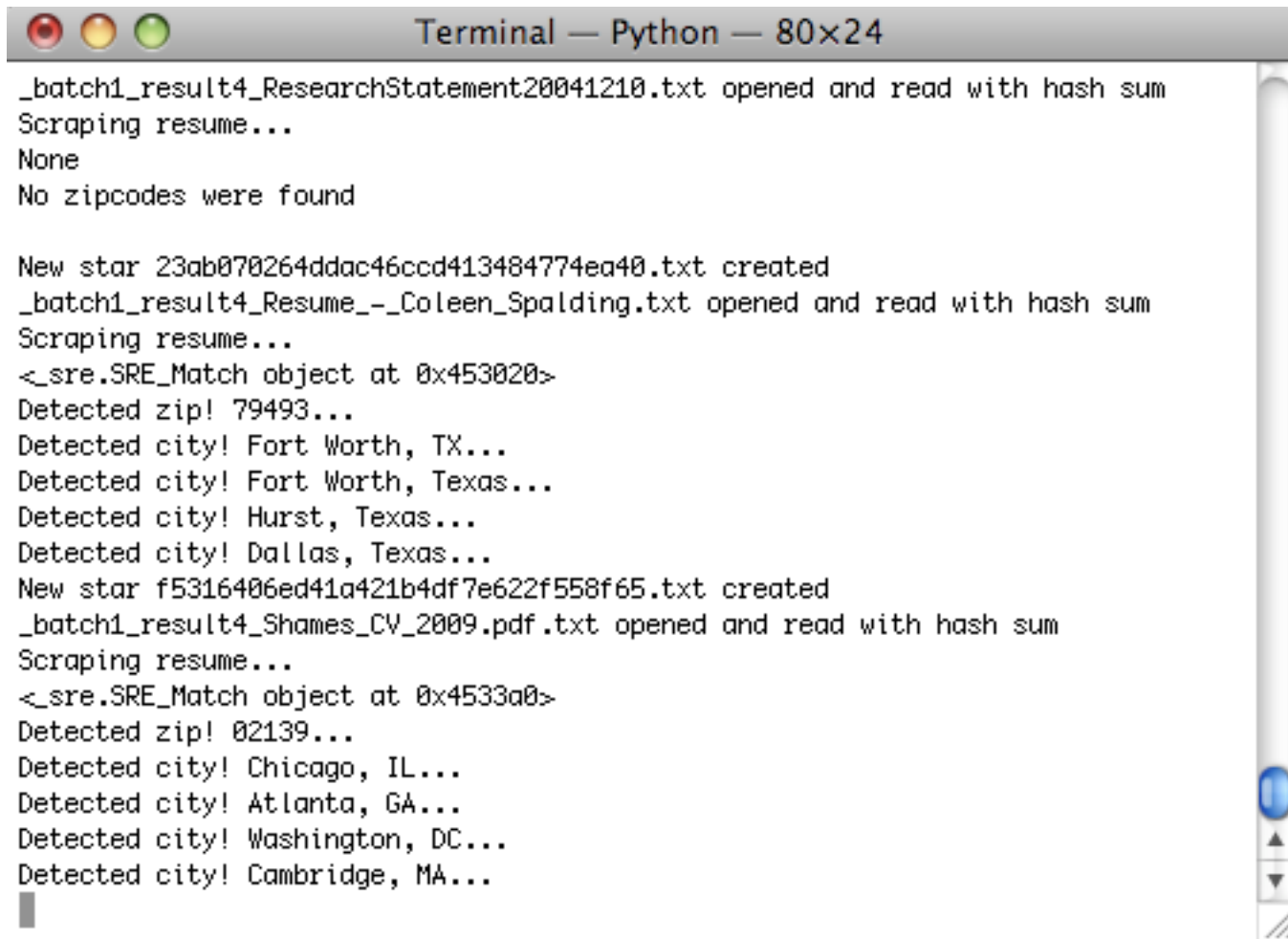
golan

DEVICES
- Hard Disk
- iDisk
- Untitled

PLACES
- Desktop
- solomonbisker
- Applications
- Documents
- Pictures
- Movies
- Dropbox

SEARCH FOR
- Today
- Past Week
- All Images
- All Movies
- All Documents

e-mail_batch4_result5_sales-manager-resume.pdf
Portable Document Format (PDF)

Name	Date Modified	Size ▼	Kind
developed_batch_re...ncluding_resume.pdf	Today, 6:21 PM	96 KB	Porta...t (PDF)
developed_batch5_result7_Resume.pdf	Today, 6:22 PM	96 KB	Porta...t (PDF)
e-mail_batch5_result6_resume.pdf	Today, 6:50 PM	96 KB	Porta...t (PDF)
interests_batch5_result7_resume.pdf	Today, 6:43 PM	96 KB	Porta...t (PDF)
past_batch3_result6_...-thomas-resume.pdf	Today, 6:45 PM	96 KB	Porta...t (PDF)
past_batch5_result0_resume.pdf	Today, 6:45 PM	96 KB	Porta...t (PDF)
references_batch3_r...2_Donald_Braman.pdf	Today, 6:40 PM	96 KB	Porta...t (PDF)

Step Two: Eliminate Duplicates
Duplicates of resumes are found and deleted using an open-source Python script, Duplinator
Coverflow confirms results and, optionally, lets us look for false positive "Sample Resumes."

Step Three: Convert PDFs to TXT format.
On Macs, this is done with Apple's Automator workflow tool.

```
Terminal — Python — 80×24
_batch1_result4_ResearchStatement20041210.txt opened and read with hash sum
Scraping resume...
None
No zipcodes were found

New star 23ab070264ddac46ccd413484774ea40.txt created
_batch1_result4_Resume_-_Coleen_Spalding.txt opened and read with hash sum
Scraping resume...
<_sre.SRE_Match object at 0x453020>
Detected zip! 79493...
Detected city! Fort Worth, TX...
Detected city! Fort Worth, Texas...
Detected city! Hurst, Texas...
Detected city! Dallas, Texas...
New star f5316406ed41a421b4df7e622f558f65.txt created
_batch1_result4_Shames_CV_2009.pdf.txt opened and read with hash sum
Scraping resume...
<_sre.SRE_Match object at 0x4533a0>
Detected zip! 02139...
Detected city! Chicago, IL...
Detected city! Atlanta, GA...
Detected city! Washington, DC...
Detected city! Cambridge, MA...
```

Step Four: Extract location information from each resume into its own file.
With Python, read in Ben Fry's "Zip Decode" zip-to-city-name mapping to determine valid US cities and valid US zipcodes. We'll use his project again later.

type the digits of a zip code

250 miles

Ben Fry

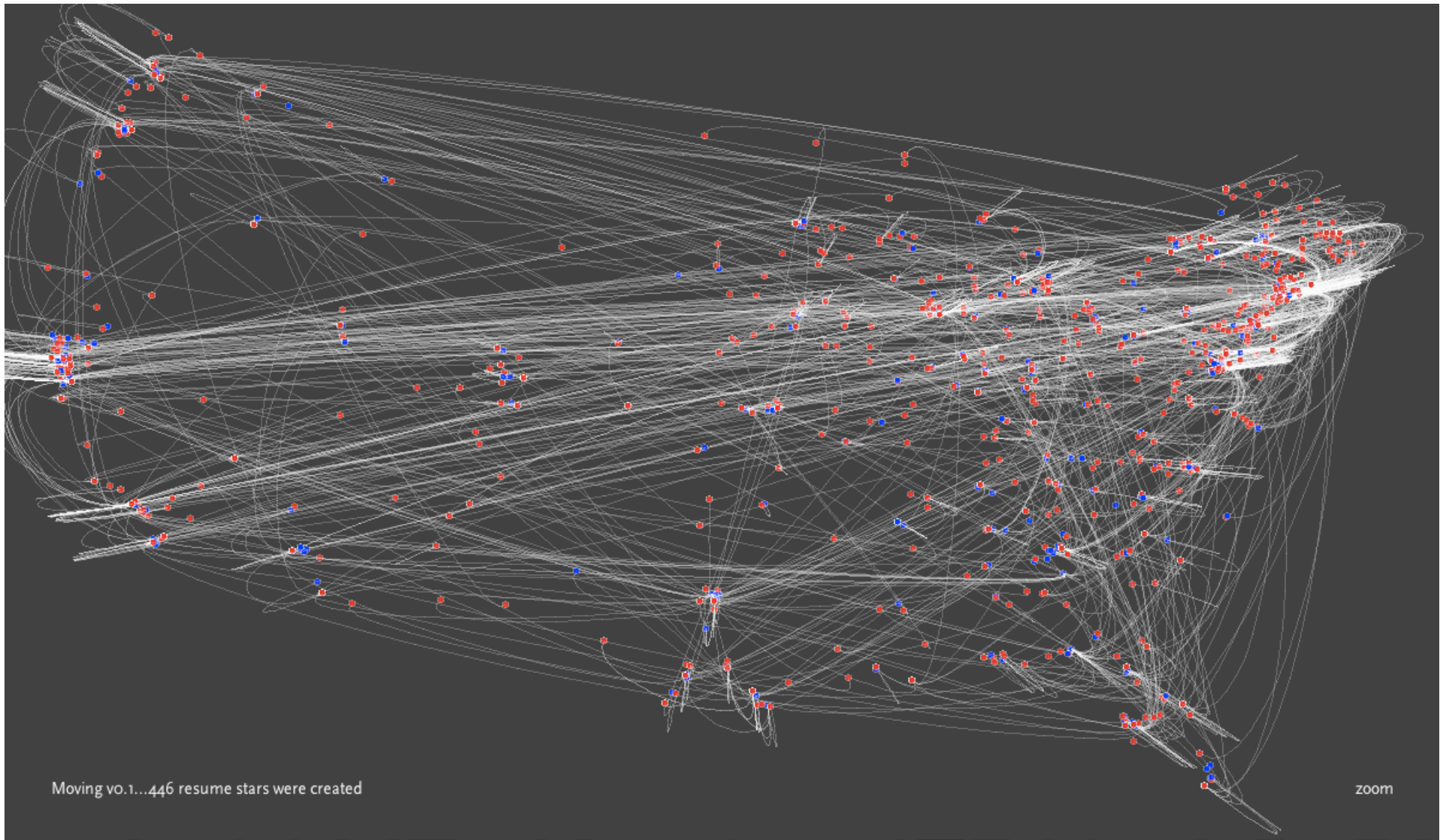Moving v0.1...446 resume stars were created
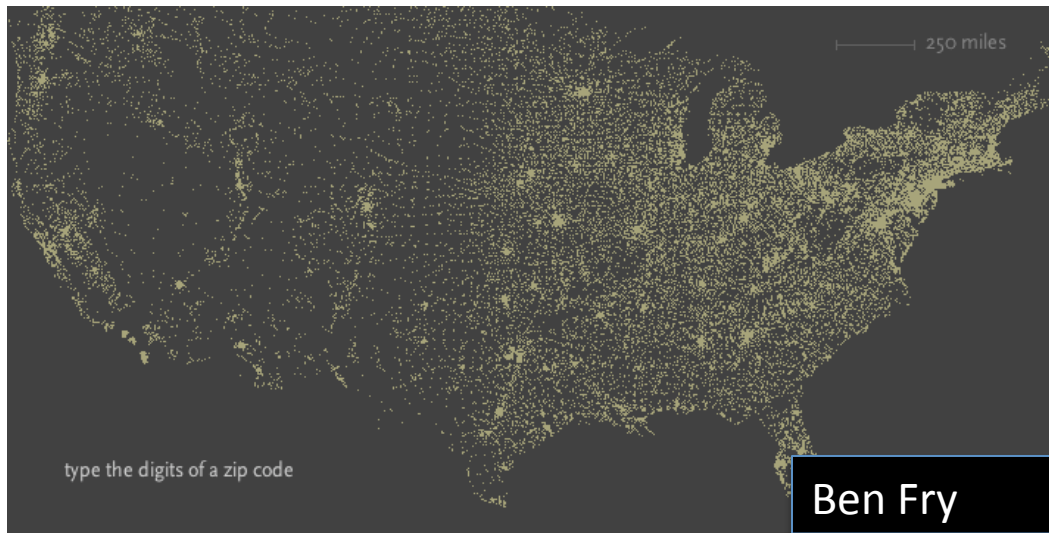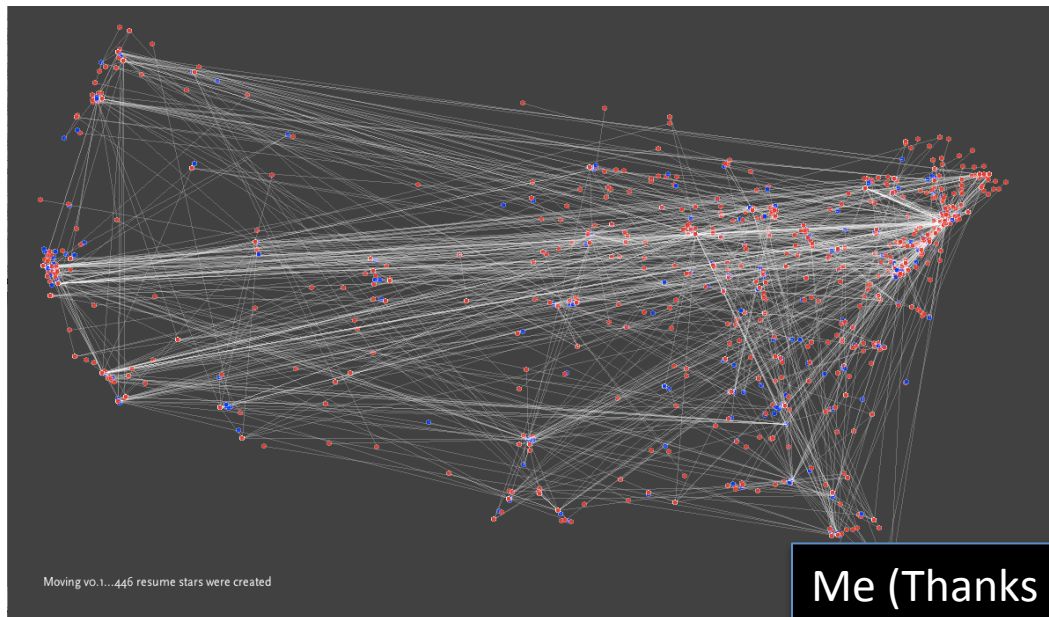
Me (Thanks to Ben Fry)

Step Five: Plot location information in Processing
Much of the visualization code came from reverse-engineering Ben Fry's "Zip Decode",
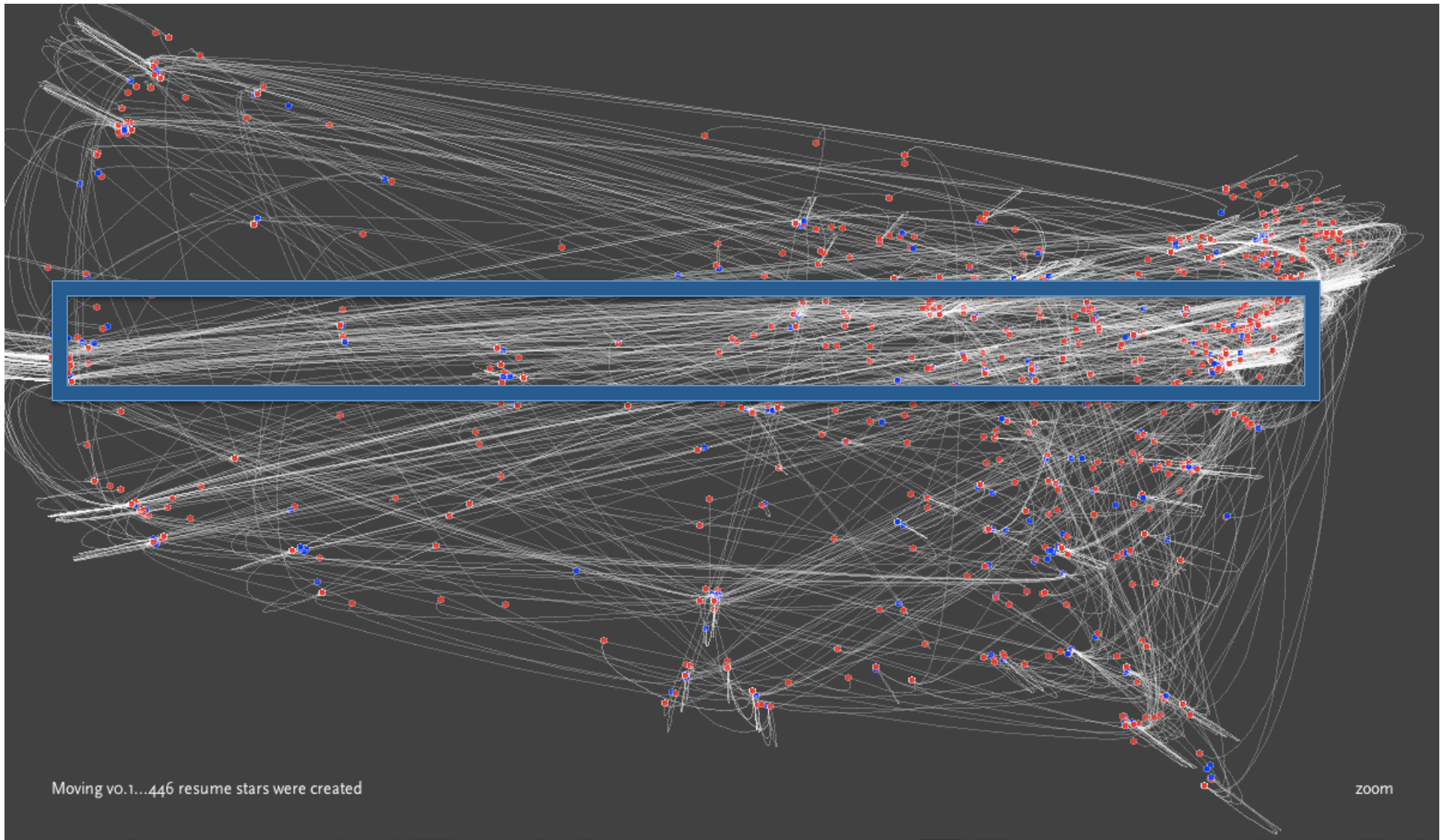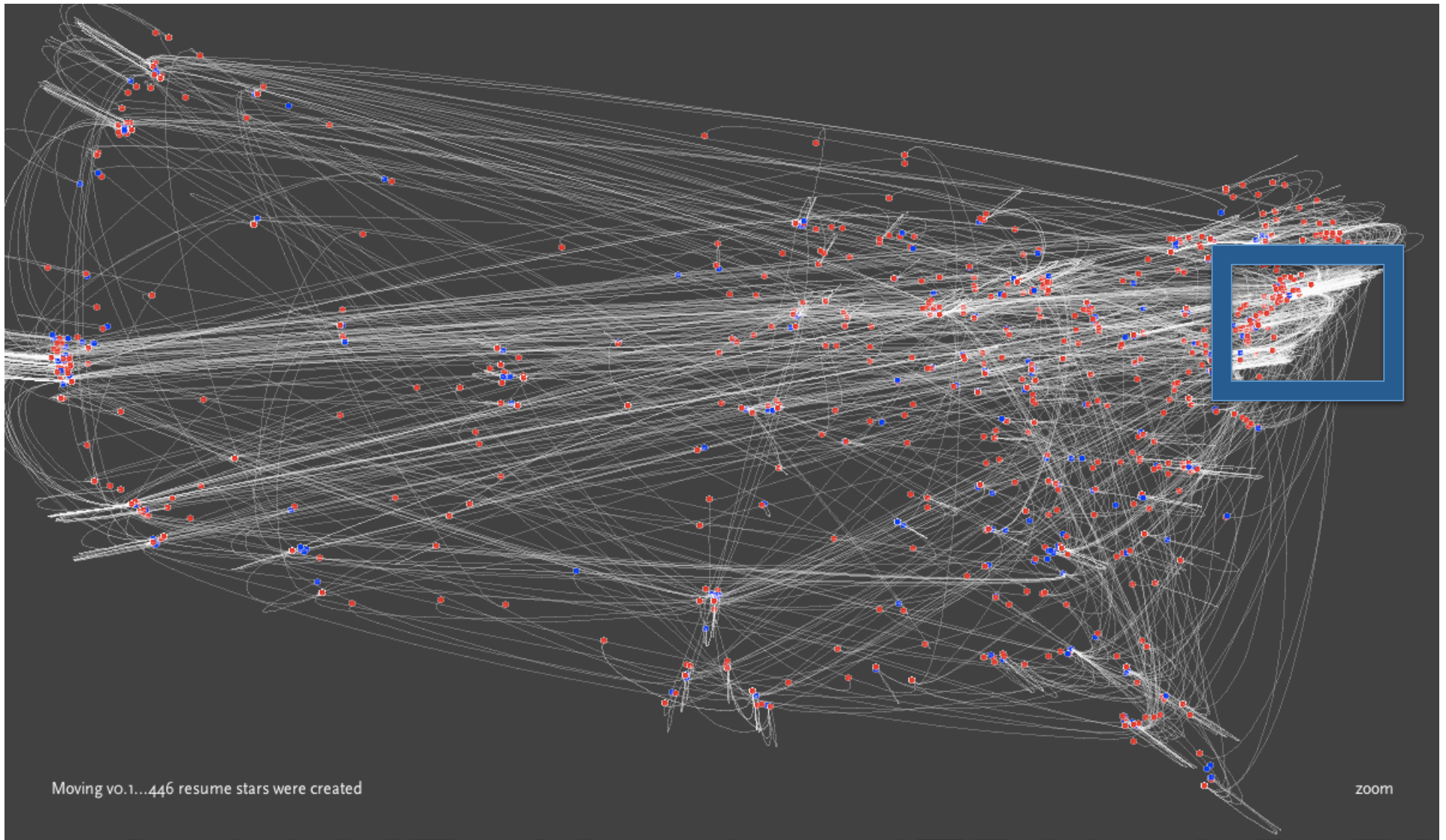letting us plot both cities and zipcodes easily, and adding a Resume object model.

Moving v0.1...446 resume stars were created

zoom
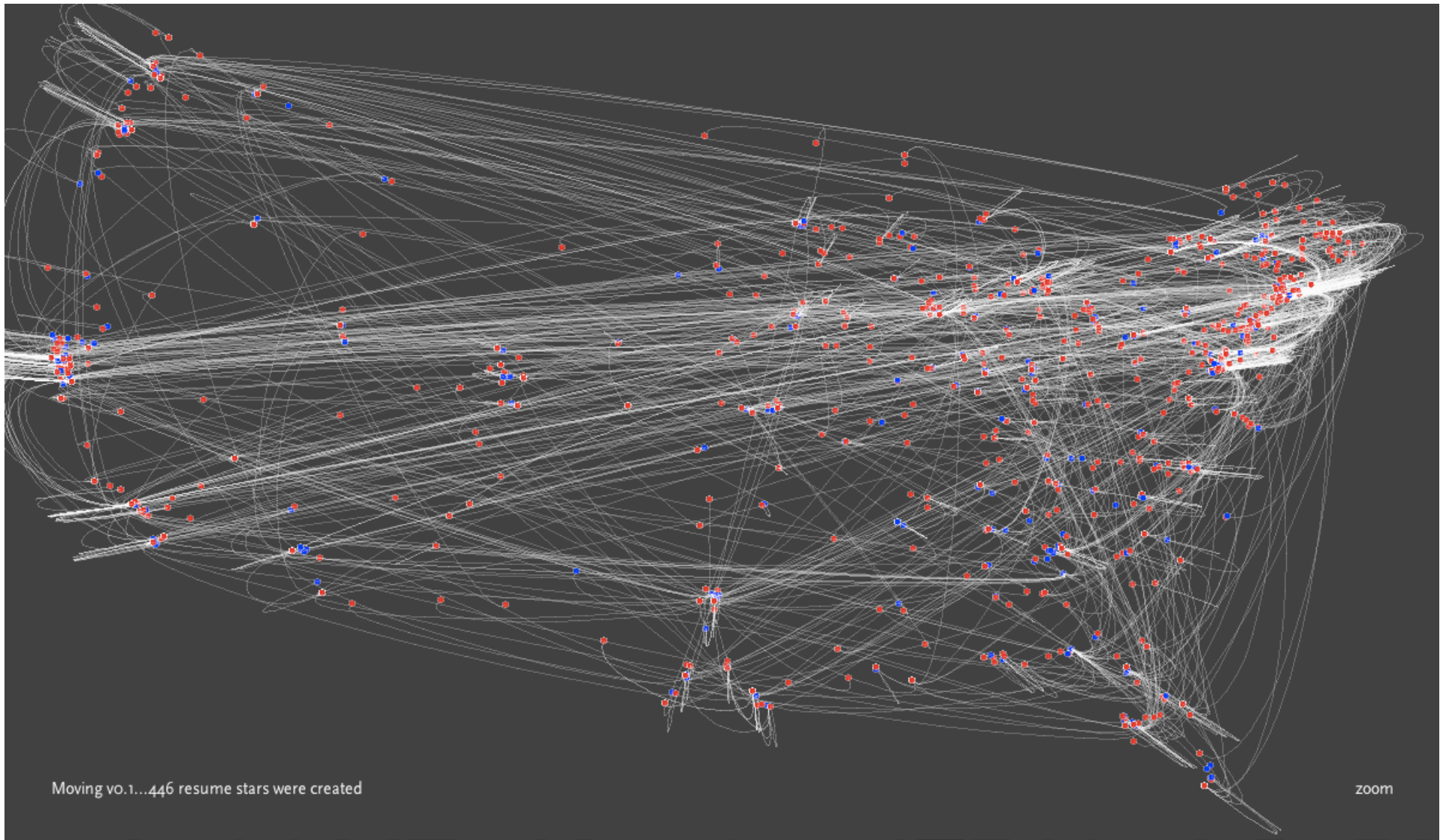
~1,600 Resumes
~600 Uniques
~450 With Complete Location information (Number Plotted)

Moving v0.1...446 resume stars were created

zoom

Finding: There seem to be vastly more jobs (red dots) than home cities (blue dots).

Moving vo.1...446 resume stars were created

zoom

Finding: Lots of people jump coasts for work (especially to and from San Francisco)

Moving v0.1...446 resume stars were created

zoom

Finding: Other people simply Love New York. (Or Boston, or Philadelphia).

Moving v0.1…446 resume stars were created   zoom
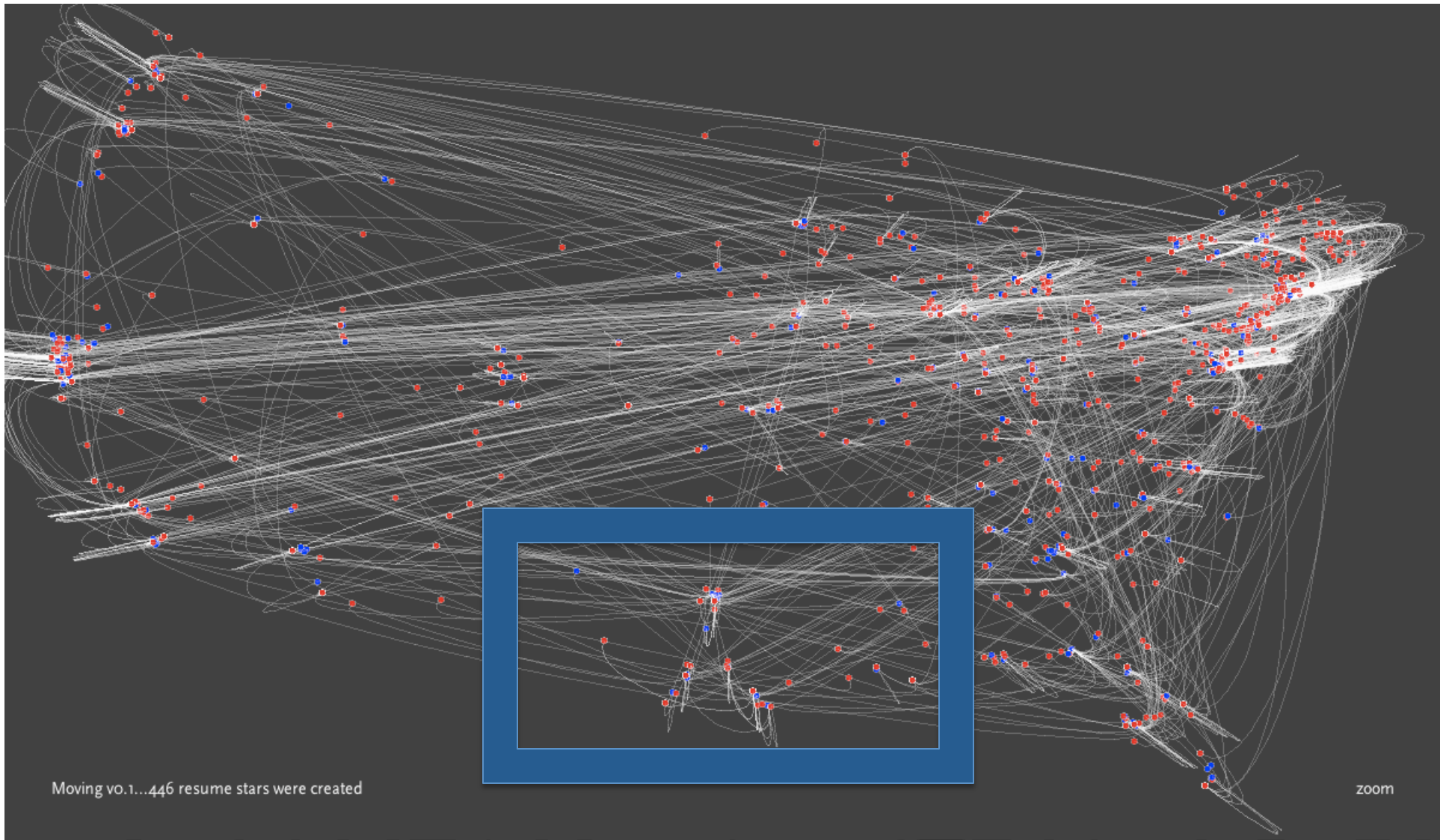
Finding: Few people seem willing to leave Texas, even for work.

Moving v0.1…446 resume stars were created

zoom
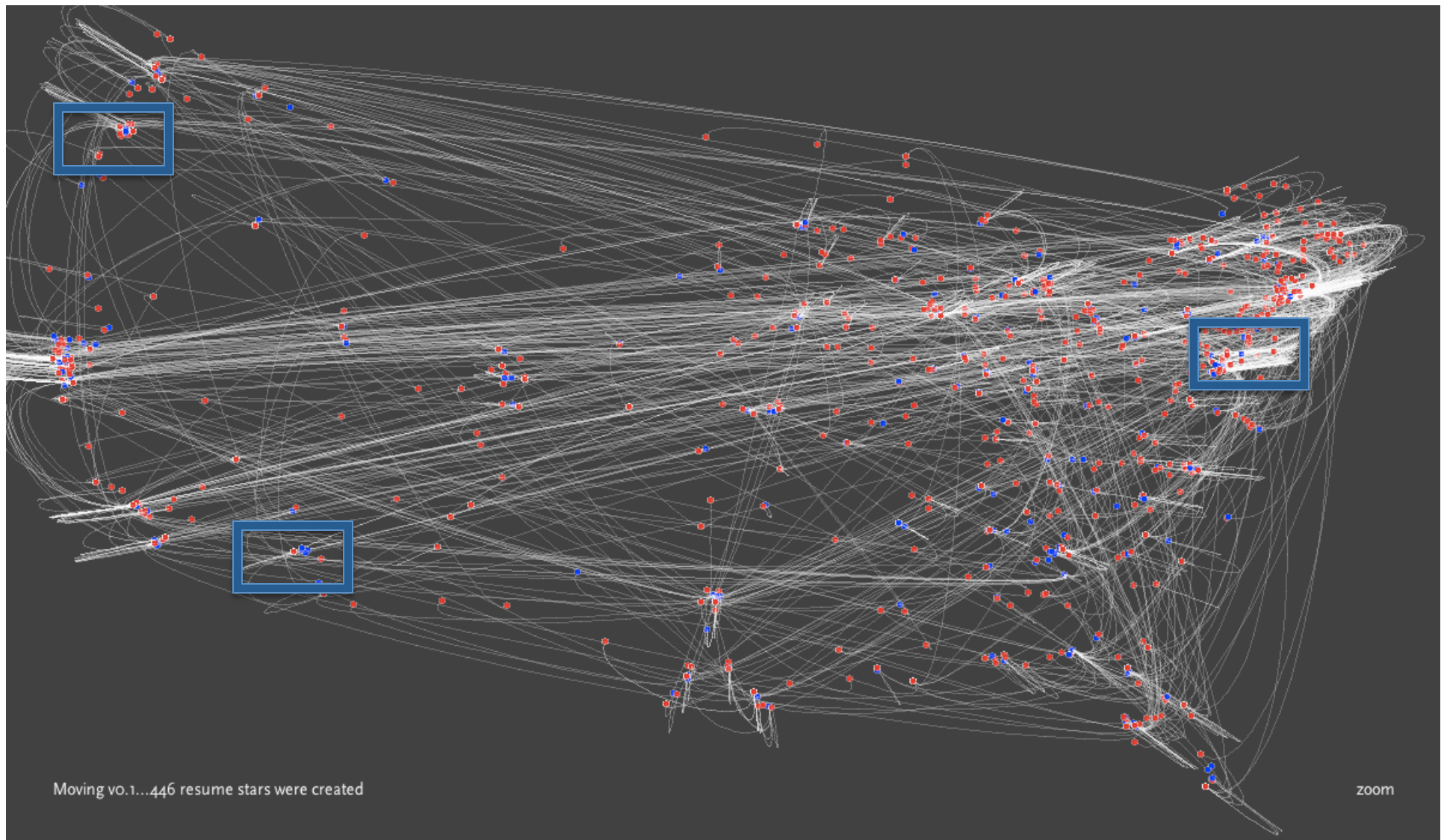
Finding: Some people manage to find many new jobs in the same city (especially near big cities, but in smaller ones too).
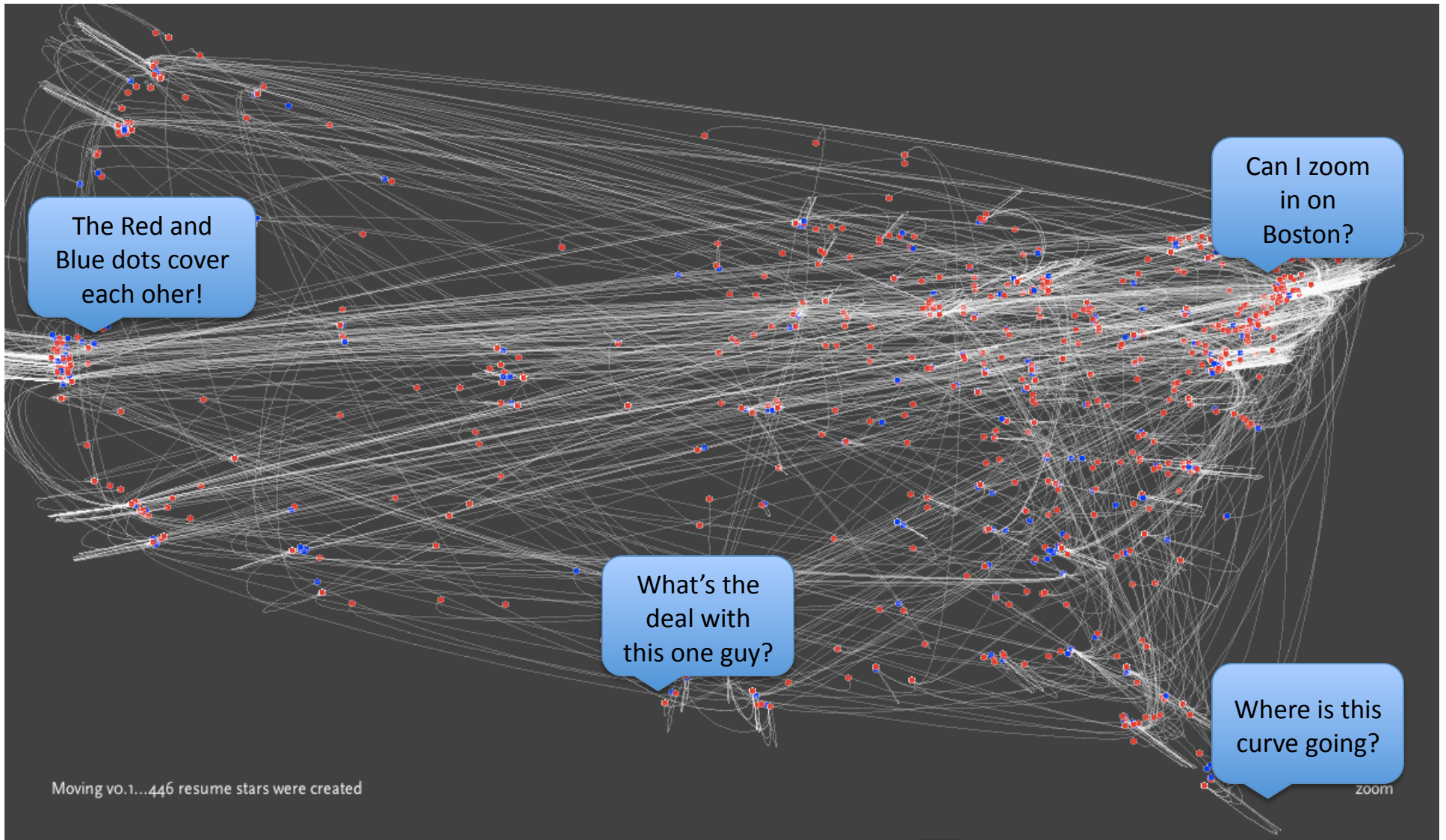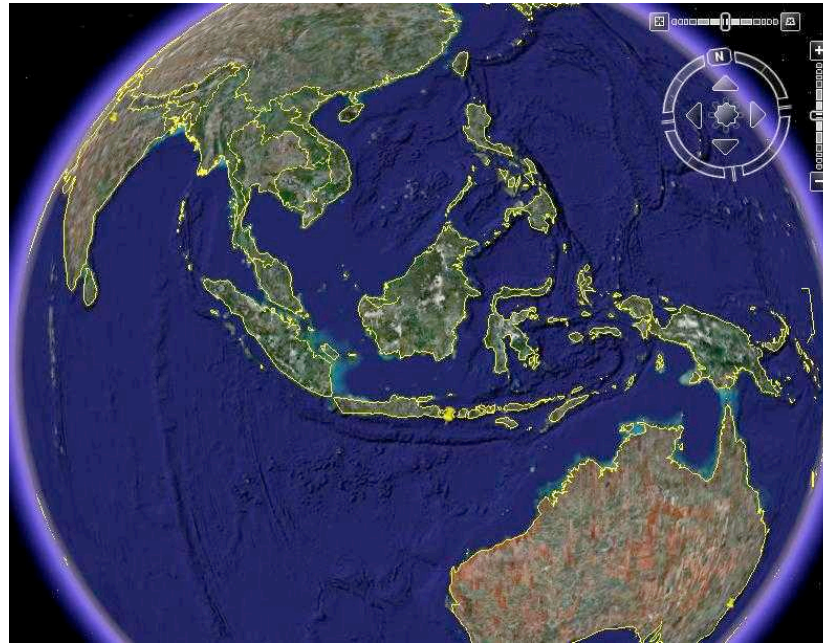
Known Issues

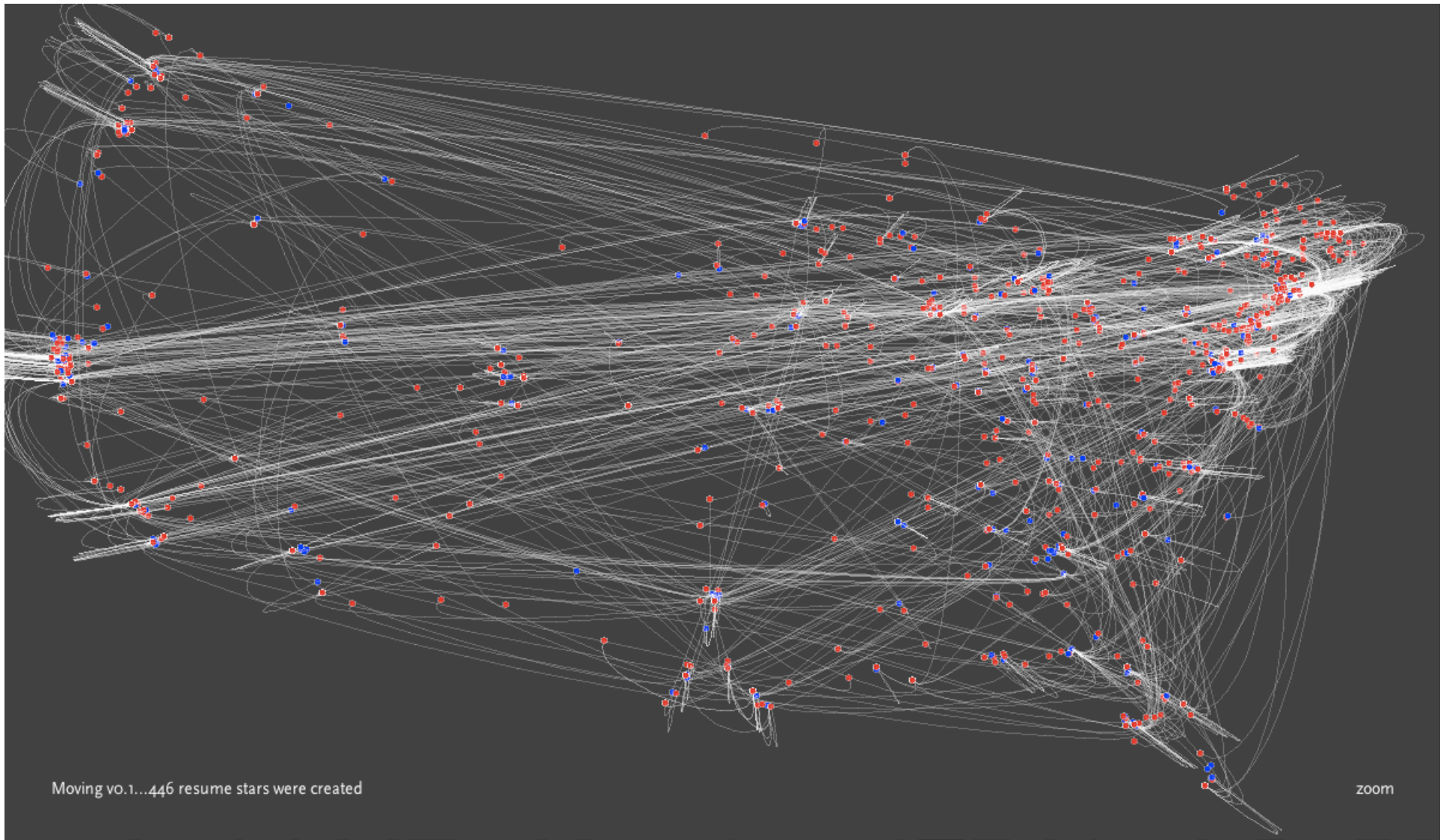Possible Next Steps

Moving v0.1...446 resume stars were created

zoom

Thank you (and discussion)