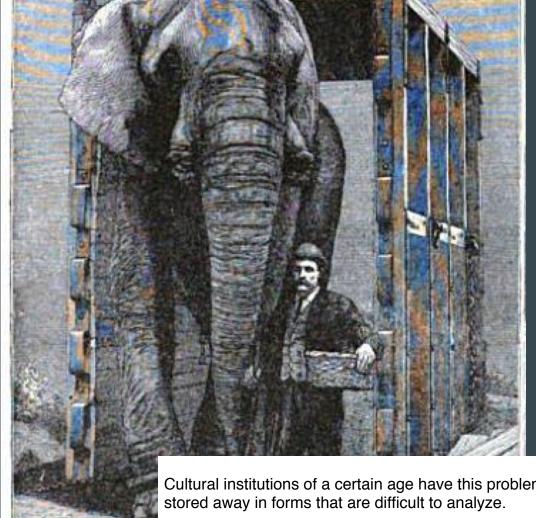
# Scribe Toward a General Framework for Community Transcription

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This is a talk about Scribe, a framework for community transcription but I mostly want to encourage people to think about things we can do to aid discovery post-digitization



Cultural institutions of a certain age have this problem of having a lot of data that's

1880 At its heart, there's a wealth of data here, but it's not expressed in discrete, human terms. Our minds are great at looking at this individual document and interpreting glyphs and phrases that represent discrete concepts and assertions. But this document as it stands doesn't lend itself to easy reading or comparison to other documents. Derelin's Miller Thineas J. Barrenn
venue, Phoadway NE corner Opushor Streetound, 109 on Threadway, 197. In Bonston Hand 95 in brooky St.
ilding, Various stones and Amellings cover the formed.

# 350.000 3 # 400000. Mortgager, No. of Street or Avenue, Dimensions of Ground, Description of Building, Valuation of Land, " Building Amount Loaned, .

## Digitization should include data extraction

We should strive to extract semantic content from the array of pixels that digitization produces.

Because frequently it's not about the image. Frequently there's a structure of data inside that document that is more useful for discovery, aggregate analysis.

Maybe we can build a general tool for data extraction that uses humans.



### Document transcription, crowdsourced



NYPL and Zooniverse got together in late 2014 to collaborate on an NEH funded project to solve the problem of data extraction IN GENERAL



SHAKESPEARE'S WORLD



**SNAPSHOTS AT SEA** 



JUNGLE RHYTHMS



#### zooniverse.org

CHIMP & SEE

ANNOTATE



SCIENCE GOSSIP



WILDEBEEST WATCH



PLANET FOUR: TERRAINS



**OLD WEATHER** 



**GALAXY ZOO** 







The Zooniverse have been building crowd sourcing tools for a while to extract data from photos and video of the Serenghetti, 19th century ships logs, arctic penguins...



RADIO GALAXY 700

BAT DETECTIVE

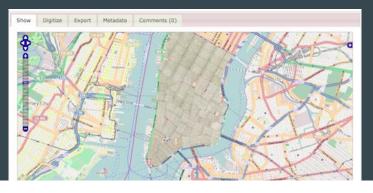














NYPL Labs has produced a number of projects around data extraction.

Labs & Zooniverse came together to pool experience and resources to build a general purpose community data extraction tool.

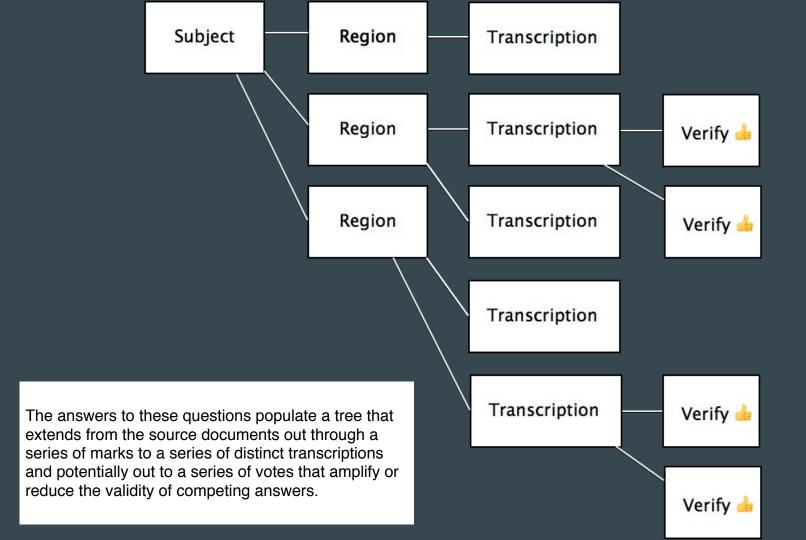
# Scribe: Configured around questions

Questions about the document

Questions about the locations of things

Questions about those things

Questions about the answers to those questions



# Scribe: Emigrant City

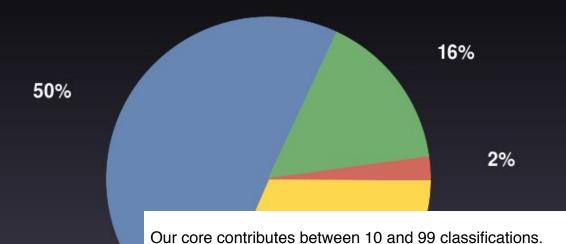
Running 4 months

5,000+ unique contributors

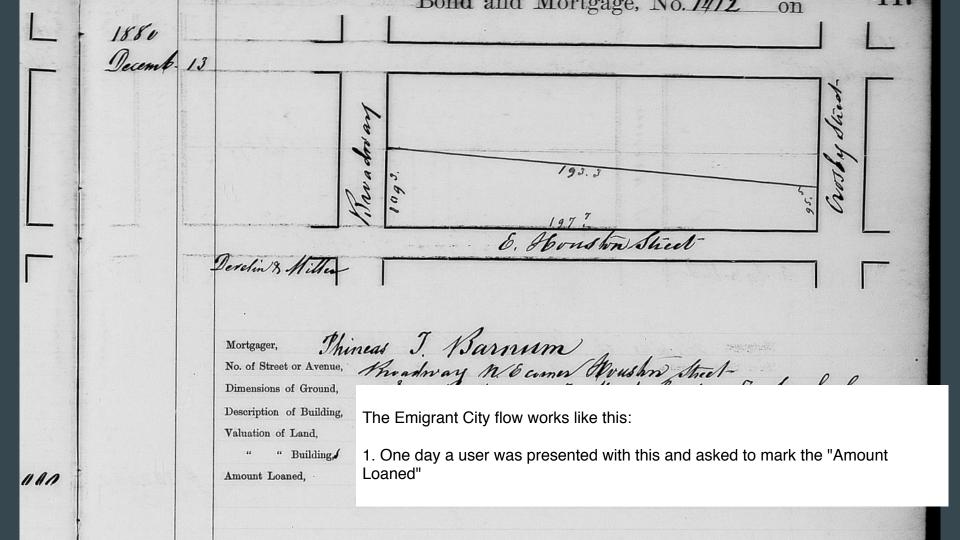
500,000+ classifications

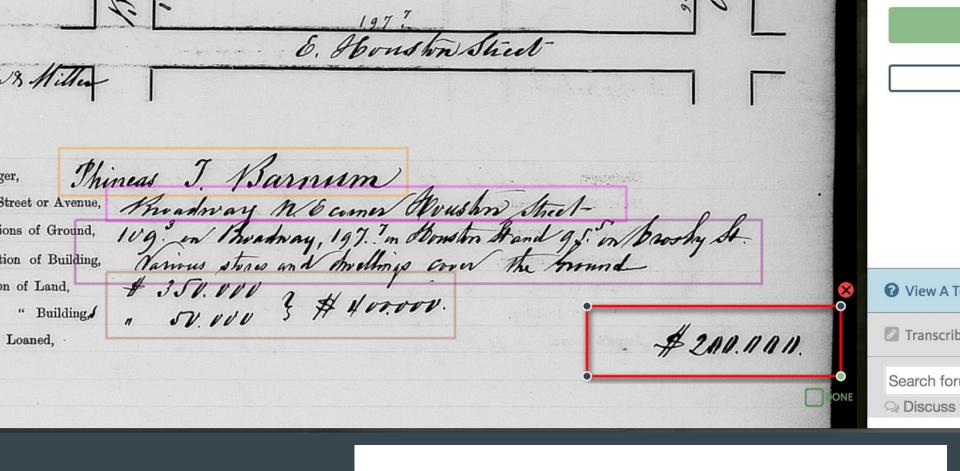
Emigrant City is a project around mortgage records from the Emigrant City Savings Bank in NYC late 19th, early 20th centuries.

# Contributor Types 9 10 - 99 100 - 499 500 +

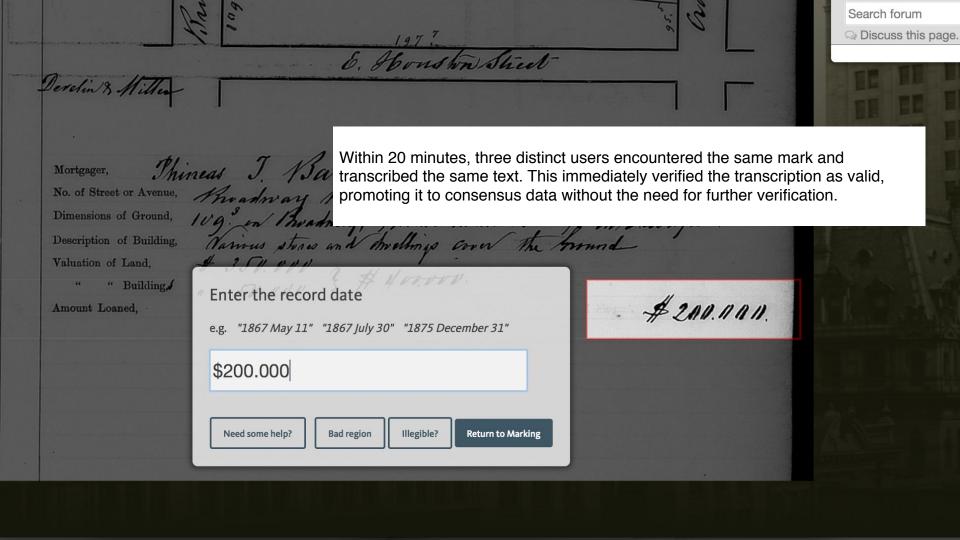


Our all-star participant has contributed 32,621.





 $2.\ A$  different contributor, encountered that user's mark and typed what they saw

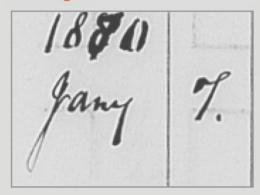


#### RECORD DATE

**1880 Jany 7.** (Interpretted as 1880-01-07T00:00:00Z)

Confidence: 67% Status: awaiting votes Distinct Transcriptions: 2

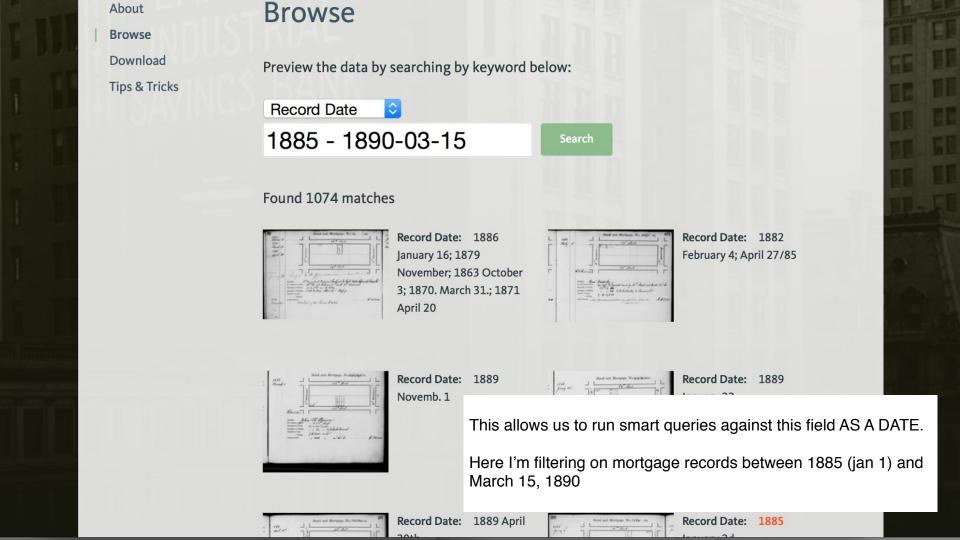
#### Hide region



Recent experimental work (at writing, not yet in master) adds to Scribe a facility for mapping the answers to these questions to a custom schema, with optional/mandatory, repeatable fields with specific types like date, int, dimensions, etc.

We see that applied here to a not perfectly confident consensus transcription with two distinct transcriptions - probably disagreeing on the year, which is either 1870 or 1880.

We've passed this free text transcription through some regex/ date parsing magic to derive a fully qualified DATE value.



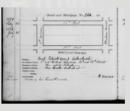


Amount Loaned 🔾

200000-

Searc

#### Found 61 matches



Amount

Loaned: \$400,000



Amount

Loaned: \$250,000

Similarly, because we're interpreting the free text transcription of the Amount Loaned field as "monetary", making common substitutions and stripping non-numerics, we can run queries like this to inspect the highest payout mortgages.



Amount

Loaned: \$200,000



**Amount** 

Loaned: \$200,000



Amount

Loaned: \$250,000



Amount

Loaned: \$200,000

#### MORTGAGER

#### Phineas T. Barnum

Confidence: 67% Status: awaiting votes Distinct Transcriptions: 2

Hide region

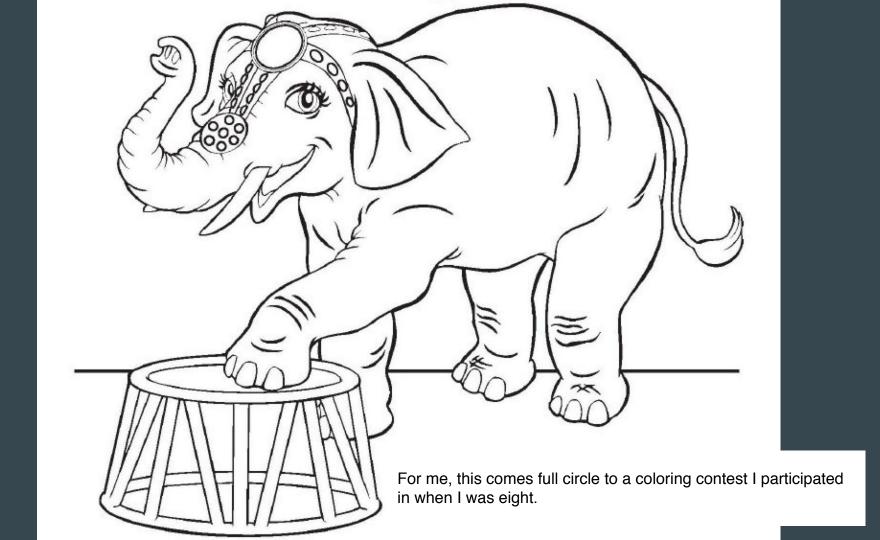


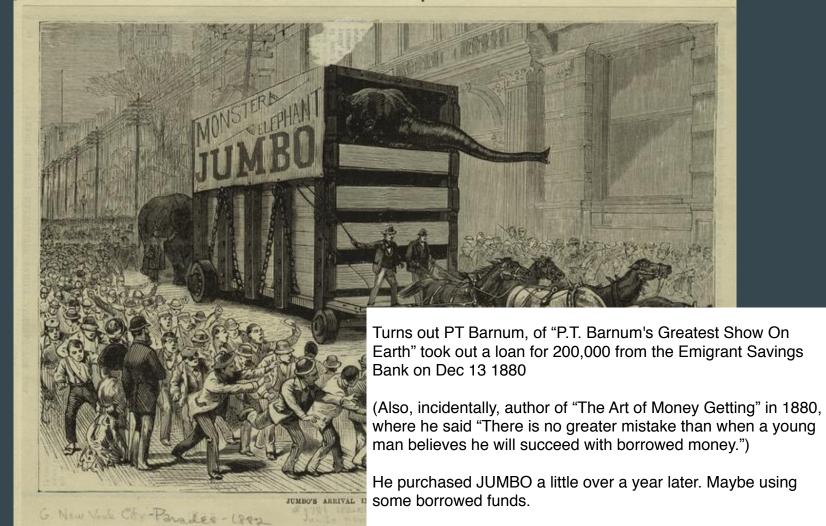
Folks familiar with the big players in late 19th century Manhattan will recognize this name

#### STREET ADDRESS

**Broadway N.E corner Houston Street** 

Confidence: 33% Status: awaiting votes Distinct Transcriptions: 3





/Scribe Toward a General Framework for Community Transcription

scribeproject.github.io emigrantcity.nypl.org labs.nypl.org

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We encourage you to check out Scribe & Emigrant City as experiments in this greater effort to build generalized tools to extract data from our digitized assets.