

Museum of Trees

Wenxin Cai

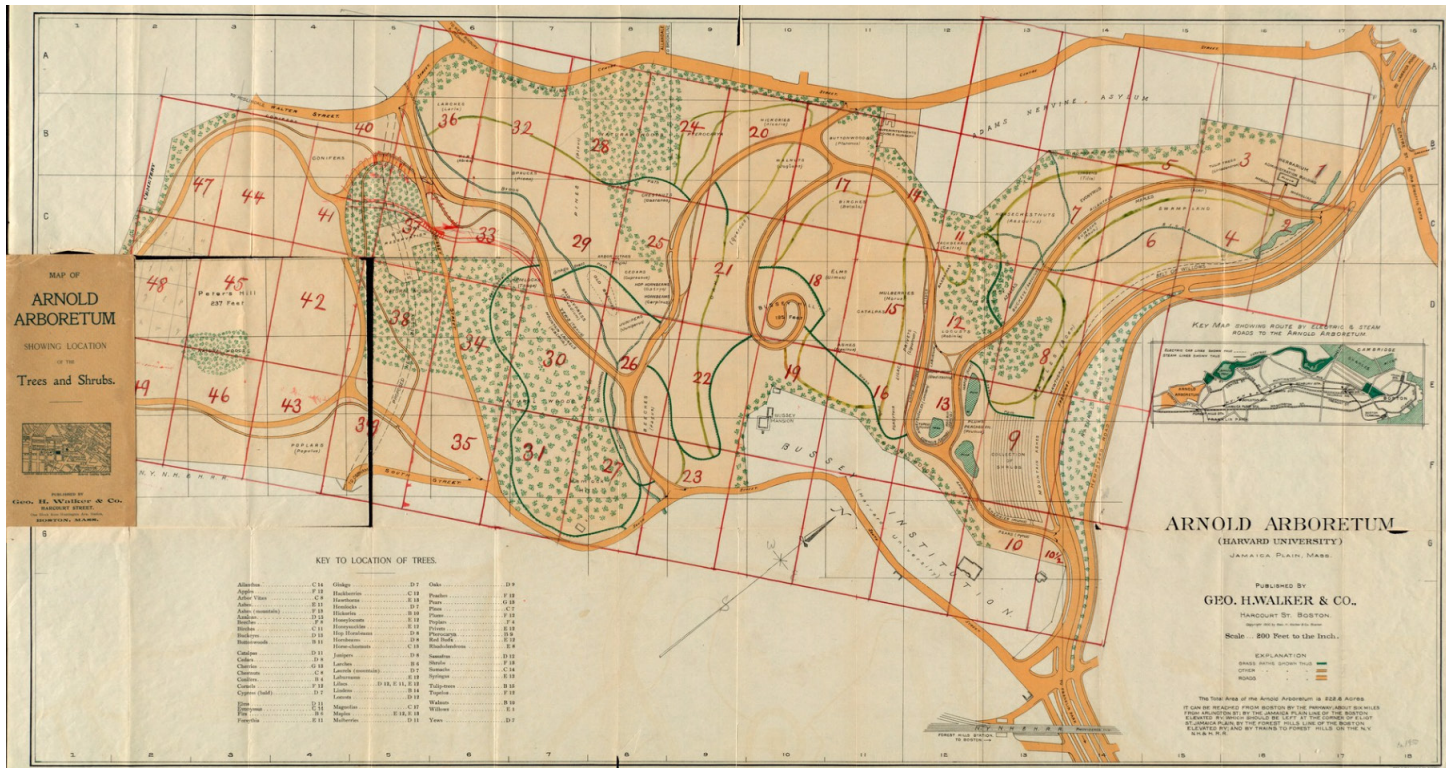
## History of Arnold Arboretum



- Found in 1872, designed by Frederick Law Olmsted
- Over 15000 plants
- Collected from 57 countries around the world

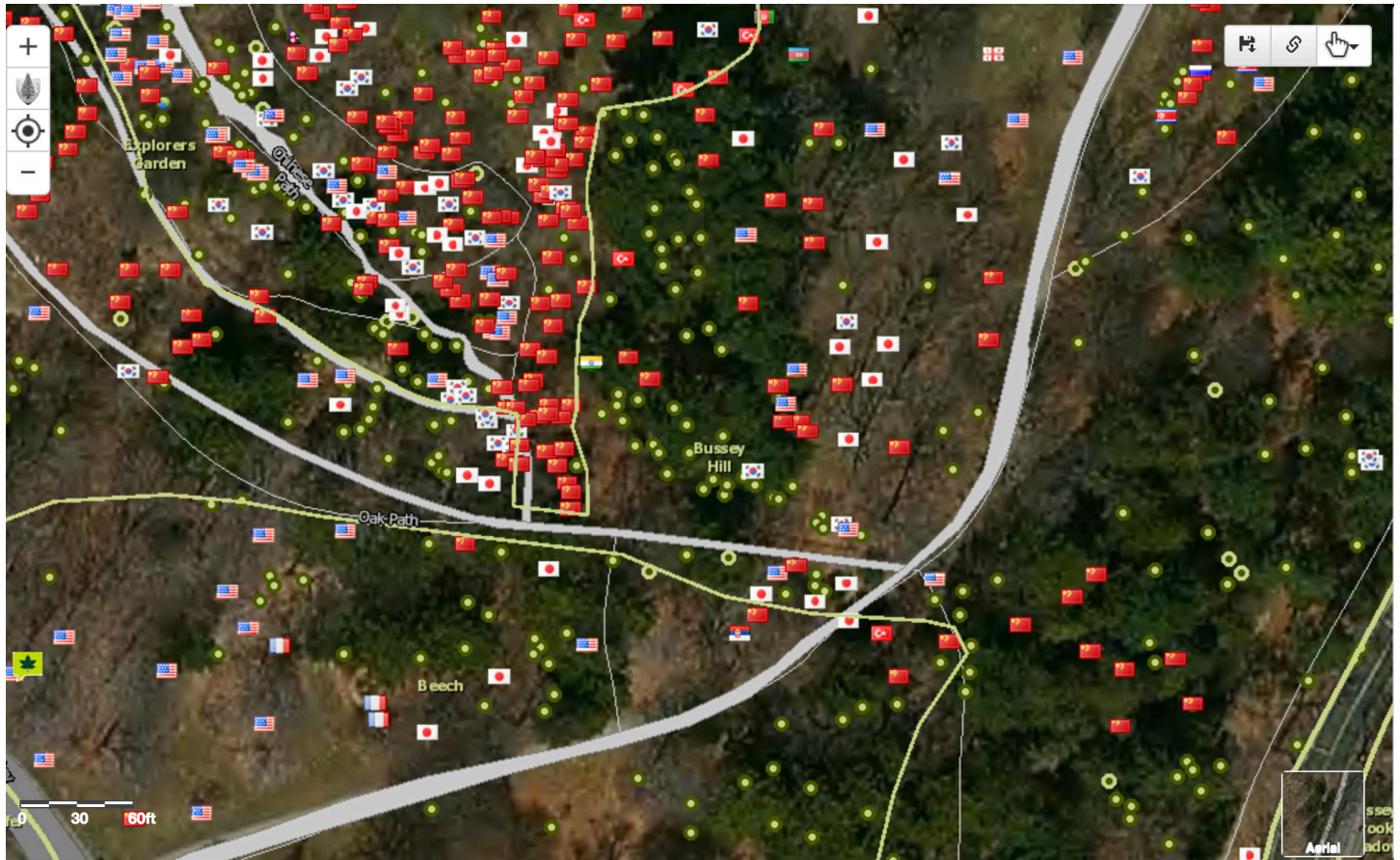























## Taxonomic Profile of the Living Collections




















- 15441 individual plants
- 2130 species

## Country of Origin



-  Afghanistan
-  Armenia
-  Austria
-  Azerbaijan
-  Belgium
-  Bosnia and Herzegovina
-  Bulgaria
-  Canada
-  China
-  Country Unknown
-  Croatia
-  Czech Republic
-  Czechoslovakia
-  Denmark
-  Estonia
-  Finland
-  France
-  Georgia
-  Germany
-  Greece
-  Hungary

-  Iceland
-  India
-  Iran
-  Ireland
-  Israel
-  Italy
-  Japan
-  Kazakhstan
-  Korea, Democratic People's Republic of
-  Korea, Republic of
-  Kyrgyzstan
-  Latvia
-  Lebanon
-  Macedonia
-  Mexico
-  Moldova, Republic of
-  Morocco
-  Nepal
-  Norway
-  Pakistan
-  Poland

-  Republic of Montenegro
-  Republic of Serbia
-  Romania
-  Russian Federation
-  Slovenia
-  Spain
-  Spain
-  Sweden
-  Switzerland
-  Taiwan
-  Tajikistan
-  Turkey
-  Turkmenistan
-  Ukraine
-  United Kingdom
-  United States
-  Uzbekistan



## Collectors

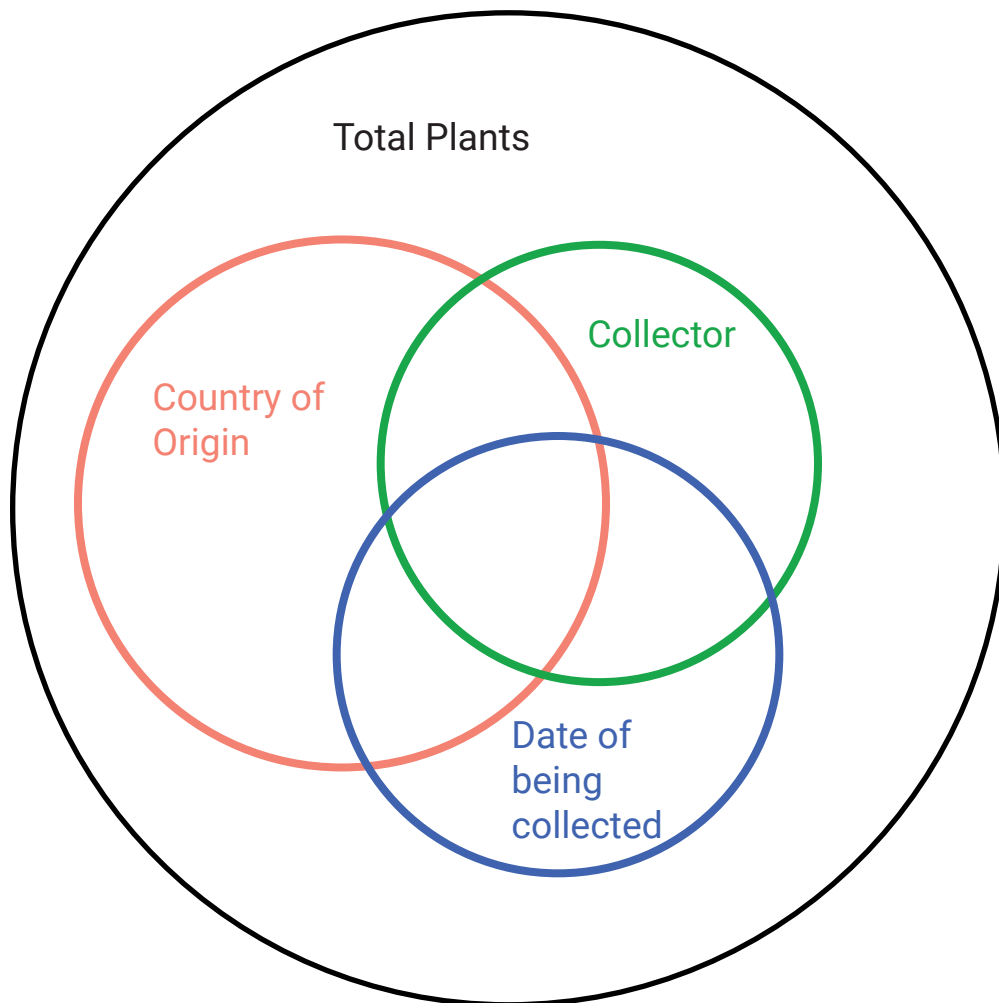


Ernest Henry Wilson (1876-1930)

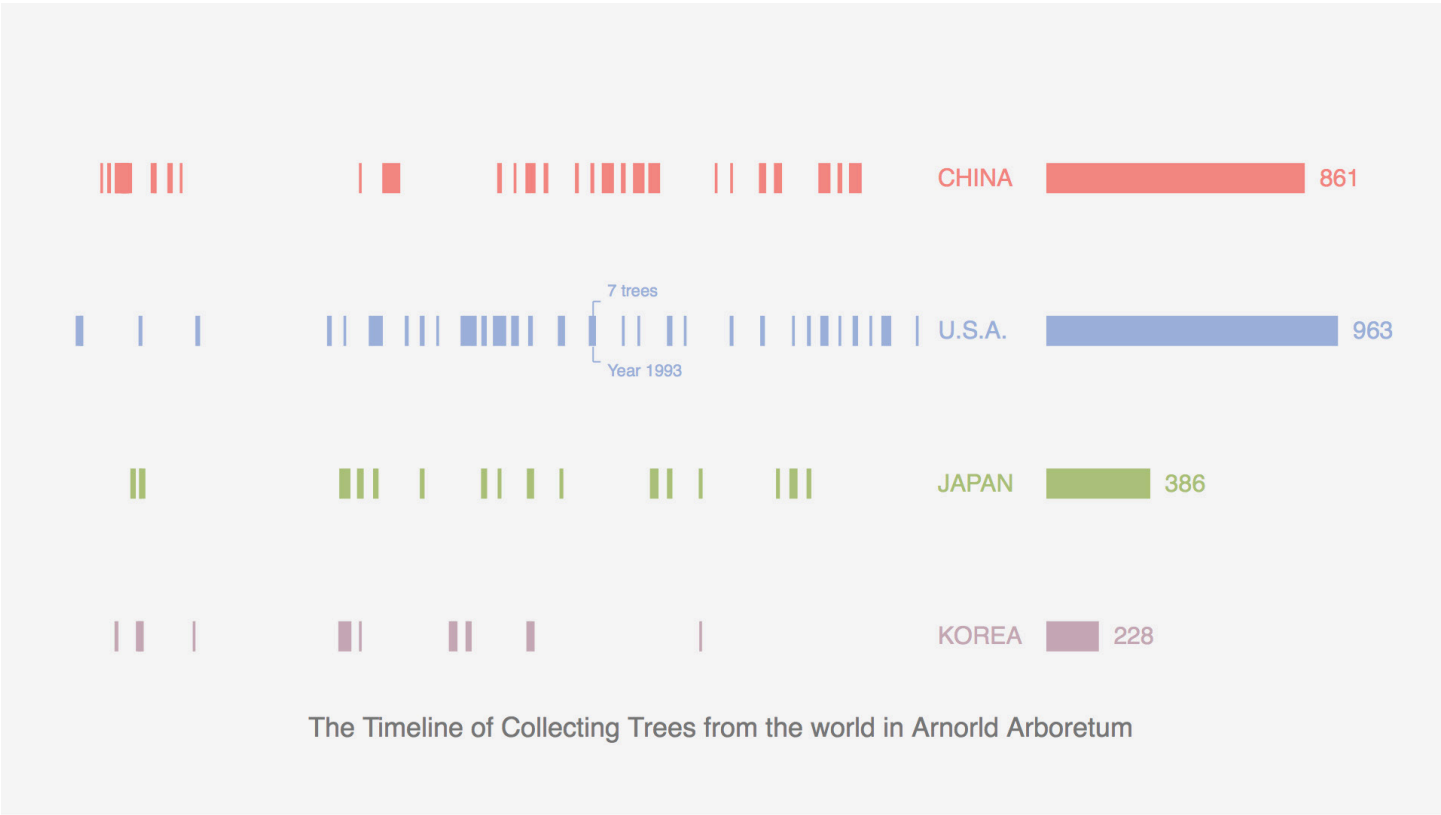


Ormosia Hosiei, China

## Data Structure

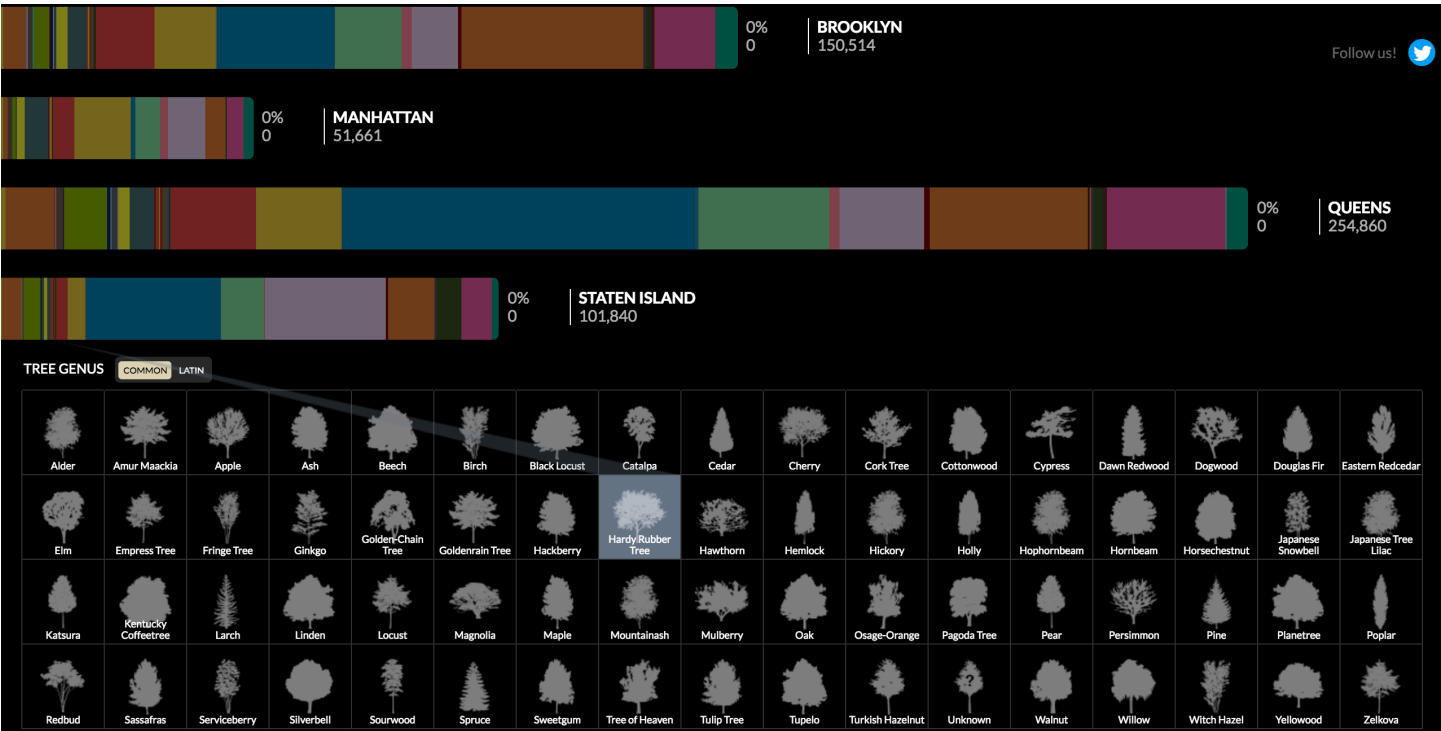


Interaction 1



The timeline of collecting trees in four countries that have major contributions

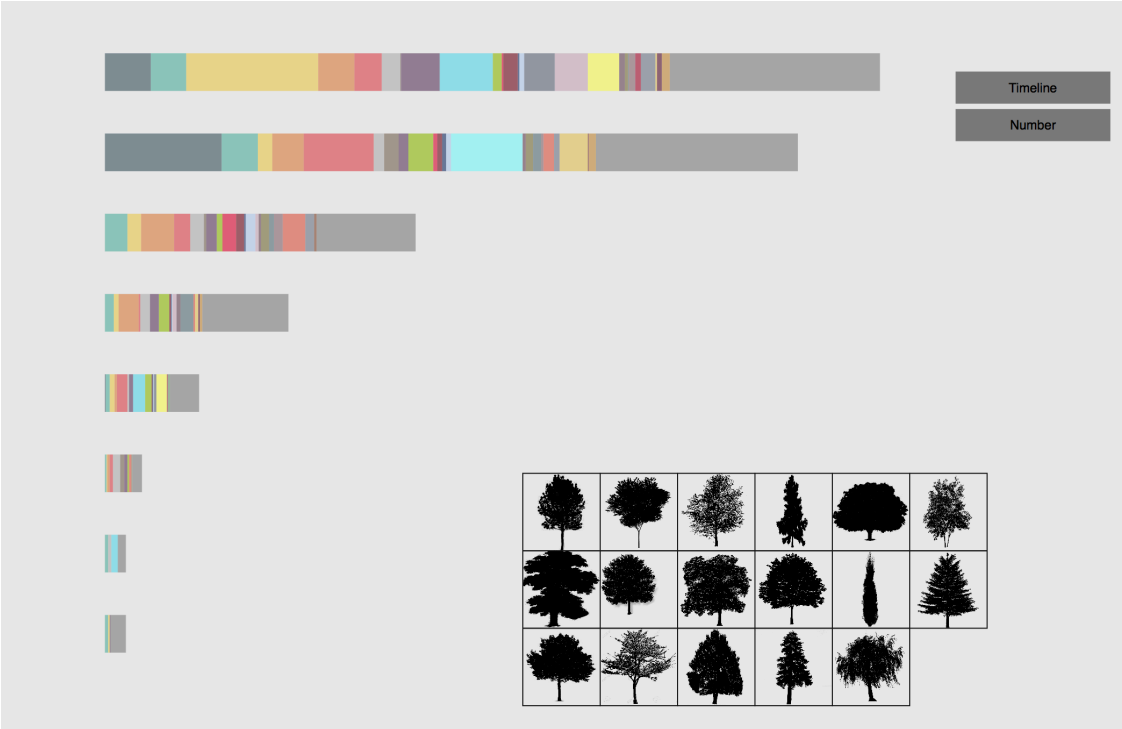
Inspiration/Reference



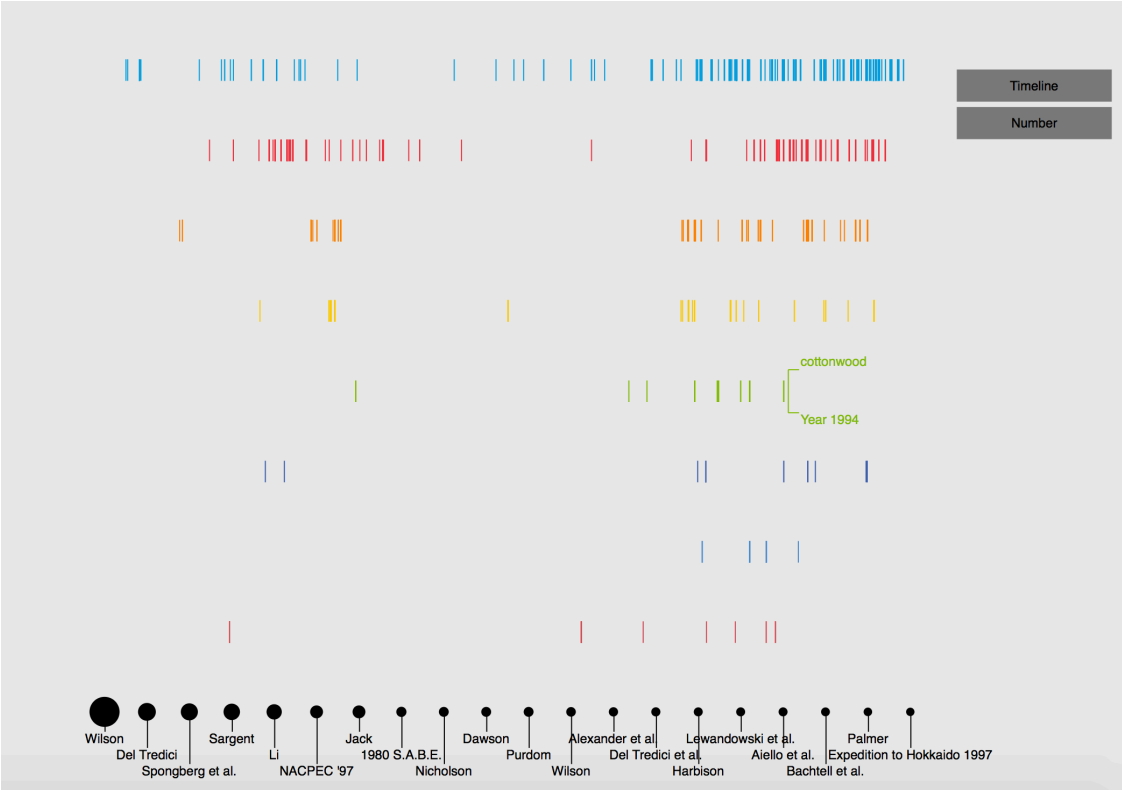
An Interactive Visualization of NYC Street Trees by Cloudred



Iteration 2

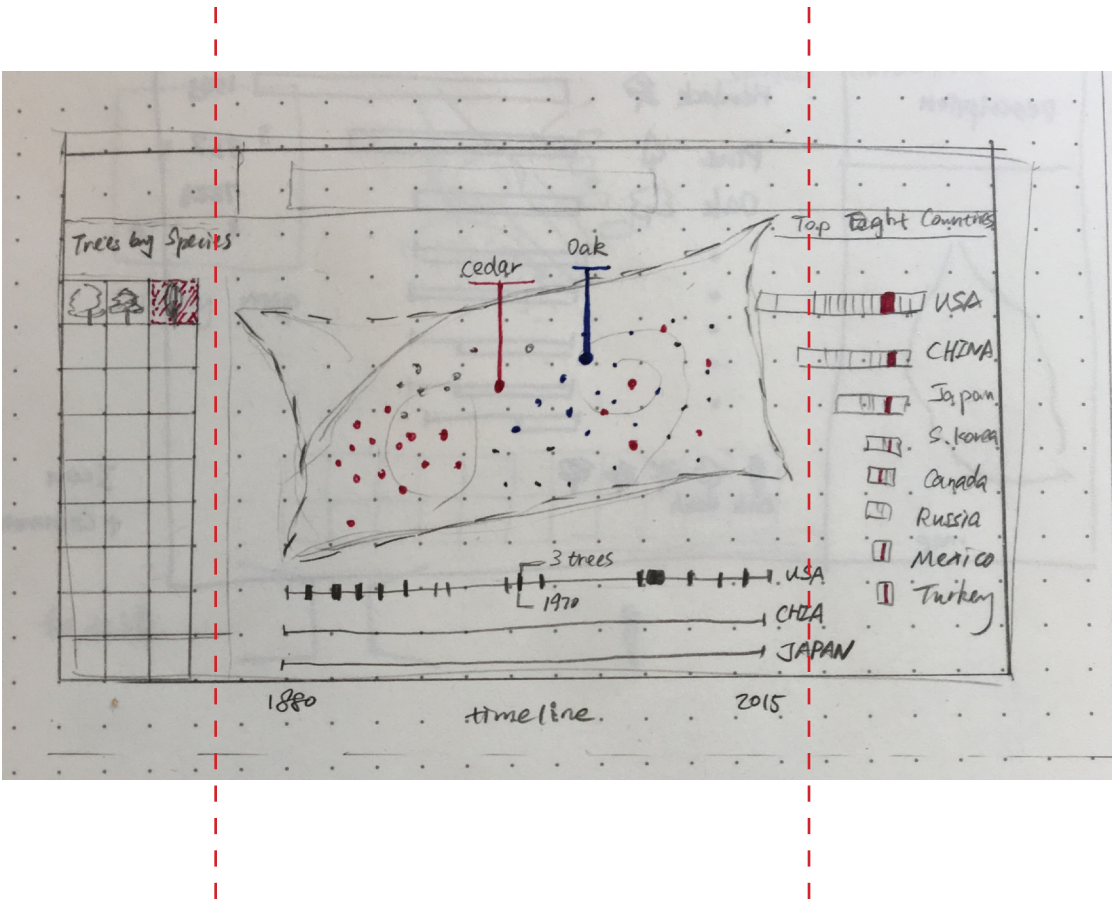


Visualizing Species

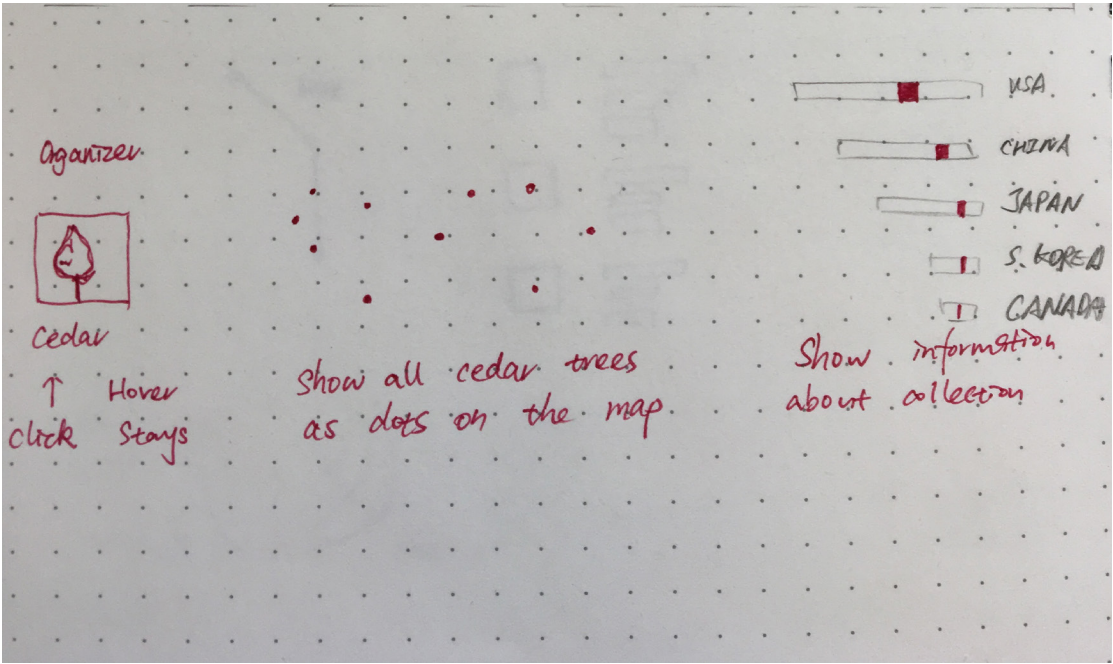


Visualizing Timeline and Top Collectors

Sketch



Layout



Organization

# Interaction 3

MUSEUM OF TREES

The Arnold Arboretum has a rich collection of trees of the eastern United States and eastern Asia. Many trees originated from collecting expeditions around the world throughout the 20th century. This visualization guide intends to show the diversity of trees and share the rich history of the arboretum.

Arbovitae

Ash

Beech

Birch

Catalpa

Cedar

Crabapple

Cypress

Dogwood

Elm

Fir

Hemlock

Hawthorn

Hickory

Honeylocust

Hornbeam

Juniper

Larch

Linden

Magnolia

Maple

Oak

Pear

Pine

The figure is a complex visualization consisting of three main parts. At the top, a map of the eastern United States and eastern Asia is populated with a dense cloud of small, multi-colored dots, where each dot represents a tree specimen. Below the map is a horizontal timeline spanning from 1900 to 2000, with vertical grid lines every 20 years. Vertical bars of varying heights are placed along this timeline to indicate the arrival of new tree species from different countries. At the bottom, a list of countries is provided, each with a corresponding horizontal bar chart showing the distribution of tree arrivals over time and a final count of trees. The countries and their tree counts are: US (963 trees), CHINA (861 trees), JAPAN (386 trees), KOREA (228 trees), and CANADA (117 trees). A specific point on the timeline is highlighted with a bracket and labeled 'Year 1993' and 'cedar'.

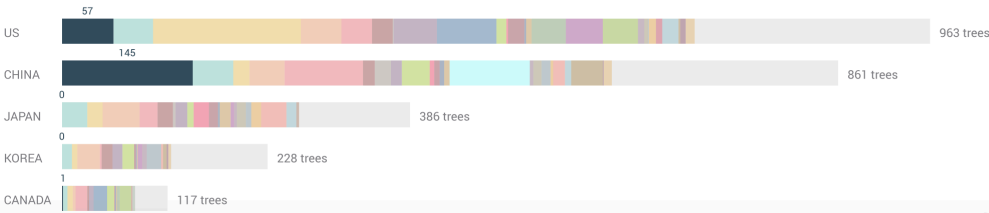
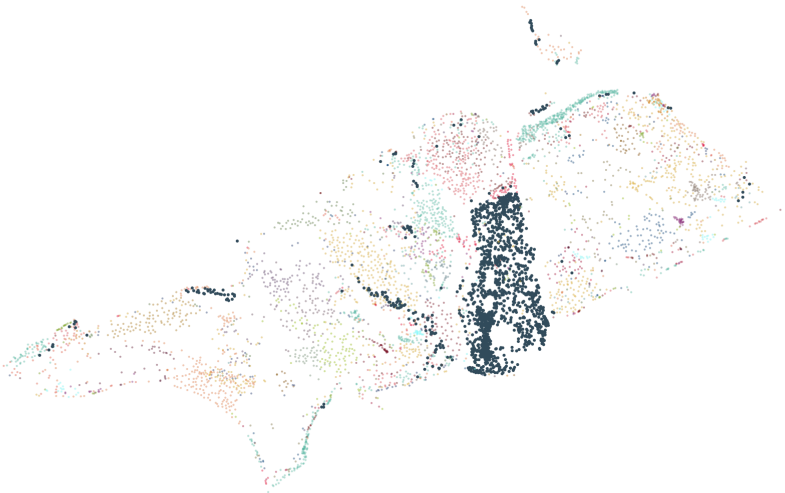
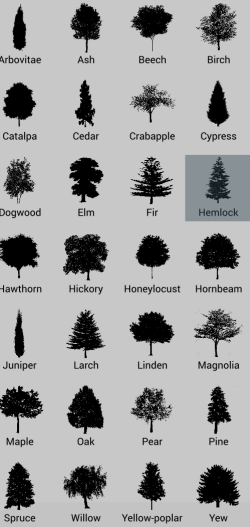
Country	Tree Count
US	963
CHINA	861
JAPAN	386
KOREA	228
CANADA	117



# Final Iteration

## Museum of Trees

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Data from Arnold Arboretum  
Created by Wenxin Cai @ MIT May 2017