



# Crowdsourced, Collaborative Genealogy

Noah Tutak, [geni.com](http://geni.com)



A photograph of several open books on a table in a library. The books are arranged in a row, with some open and some closed. The background shows a bookshelf filled with books. The lighting is warm and focused on the books.

# Genealogy





NATIONAL  
ARCHIVES

FAMILYSEARCH



WHO



DO YOU THINK YOU ARE?

**Genealogy**

 **ancestry.com**

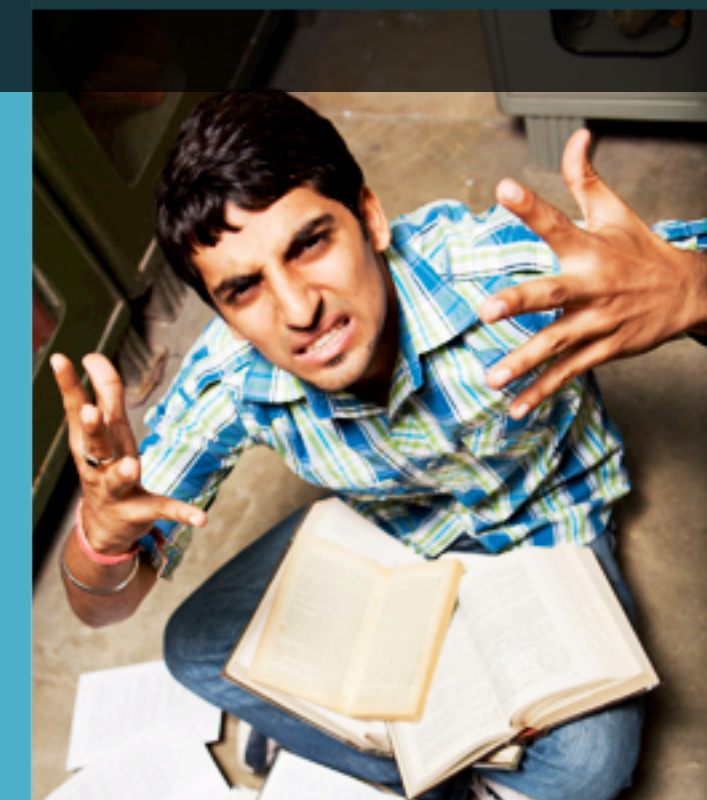
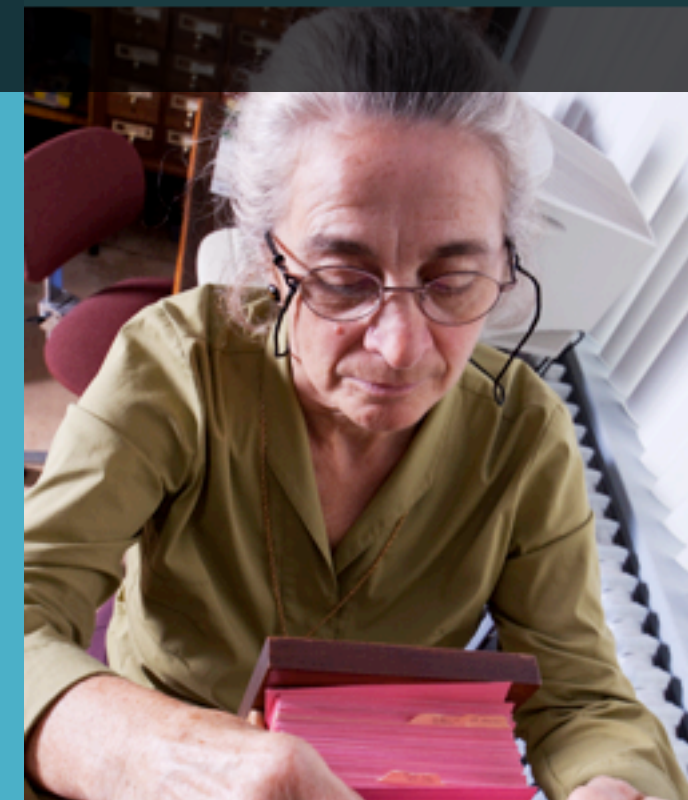
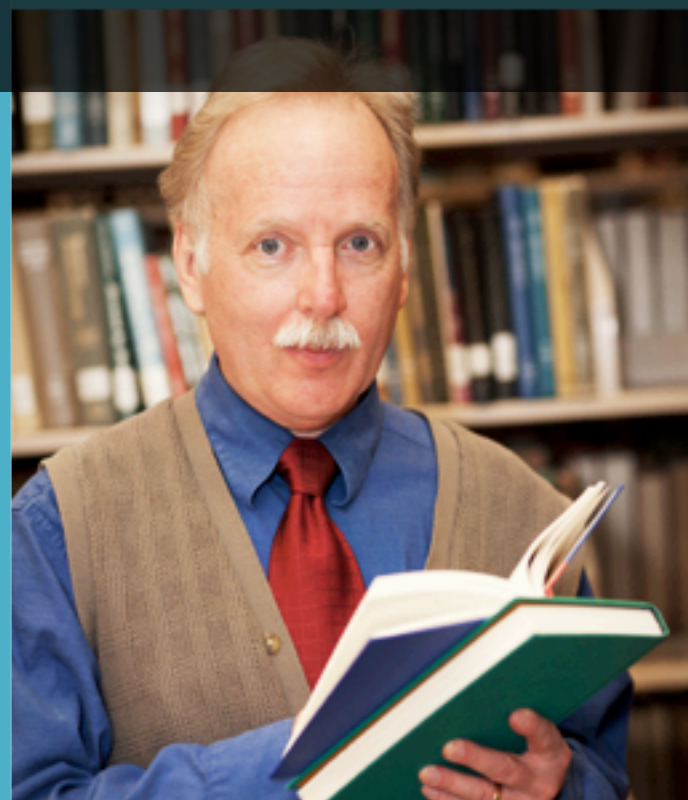




# Traditional Genealogy



# Traditional Genealogy





# Everyone's Related



1 individual

2 parents

256 6<sup>th</sup> great grandparents

4,096 10<sup>th</sup> great grandparents

# Everyone's Related

4,194,304 20<sup>th</sup> great grandparents





# Collaborative Genealogy





# Collaborative Genealogy



# Geni Metrics



6.5 million users

58 million World Family Tree

112 million total profiles

# Geni Metrics



# Revisions



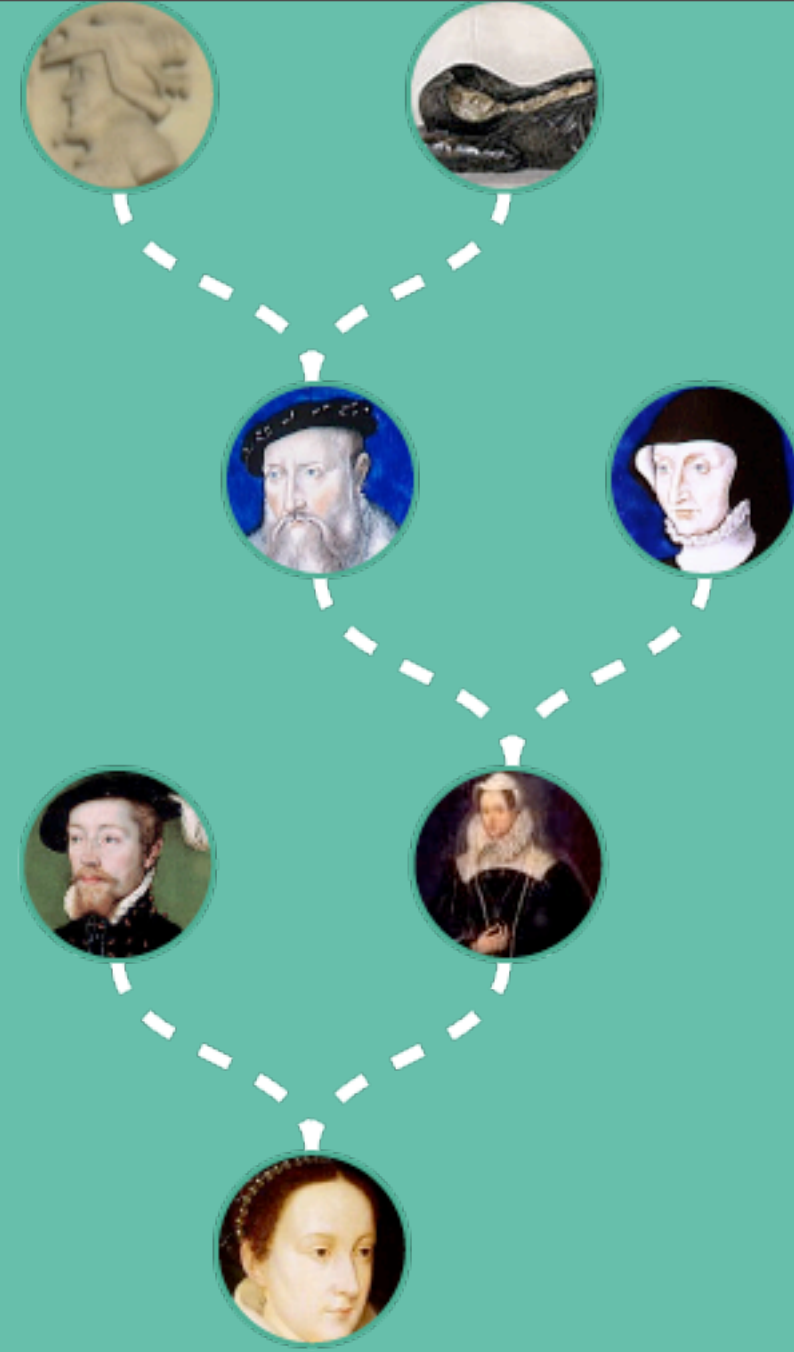


# Revisions

# Duplication

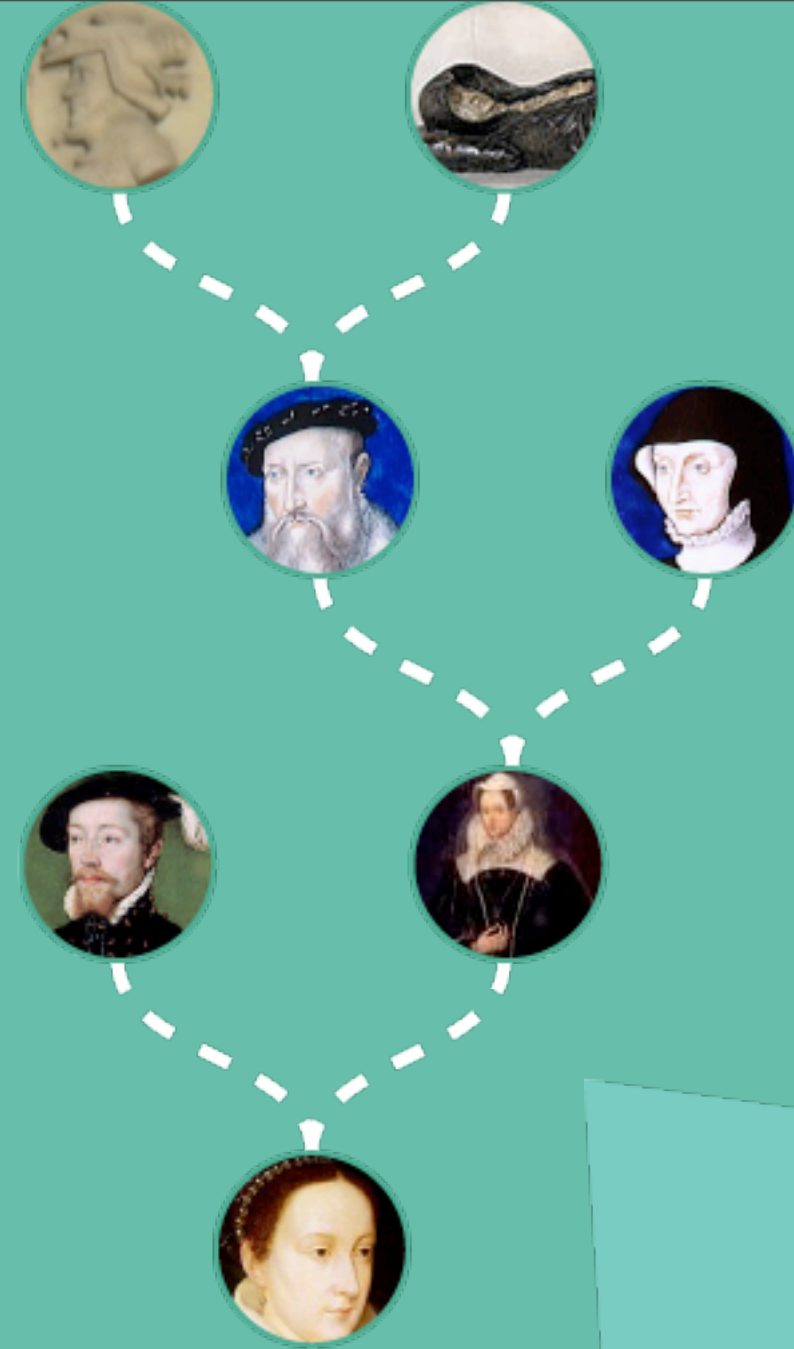


# Duplication



# Repetitive Research





# Repetitive Research



# Error Propagation



# Error Propagation



# Privacy





# Privacy



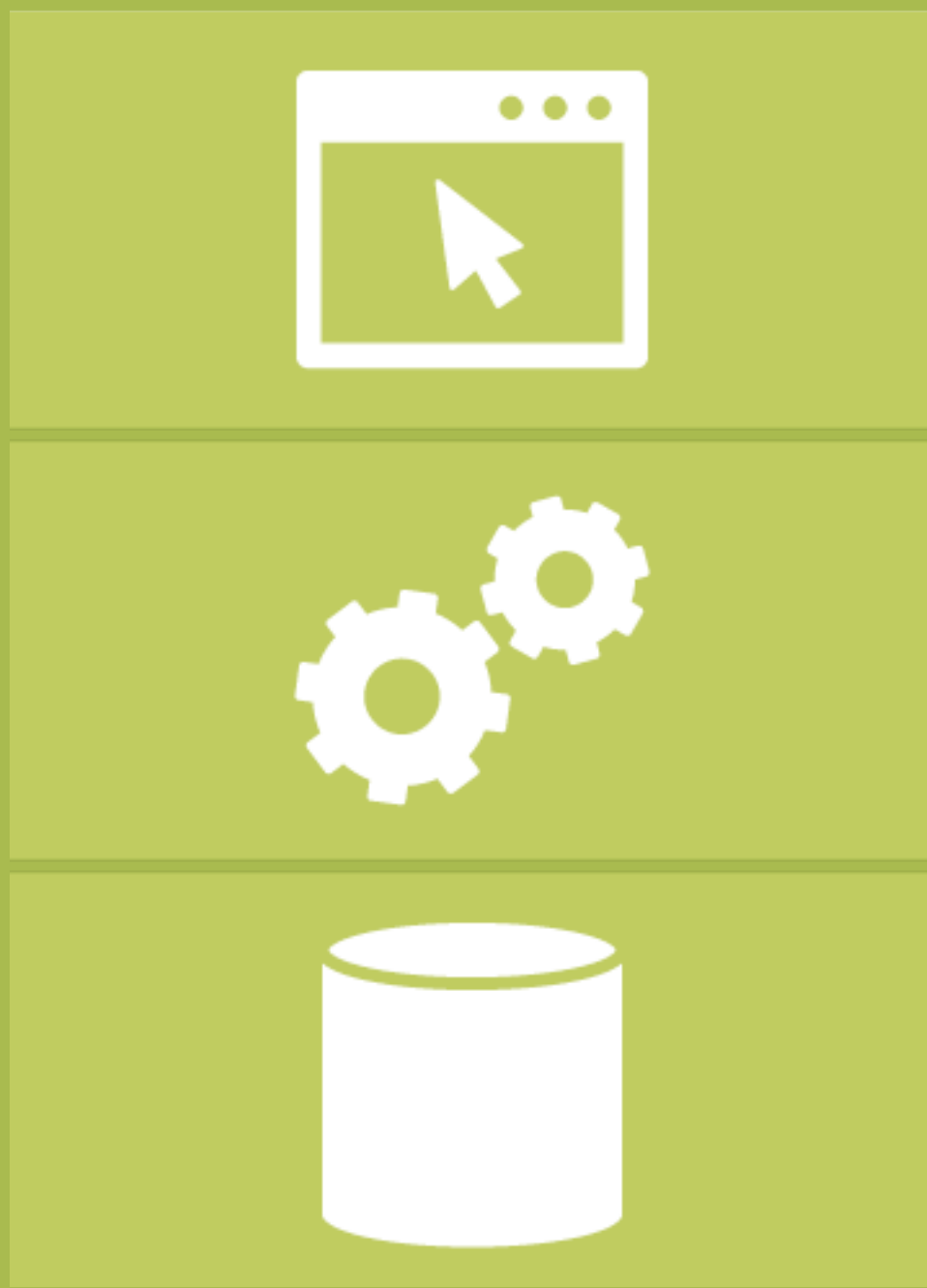
# Permissions



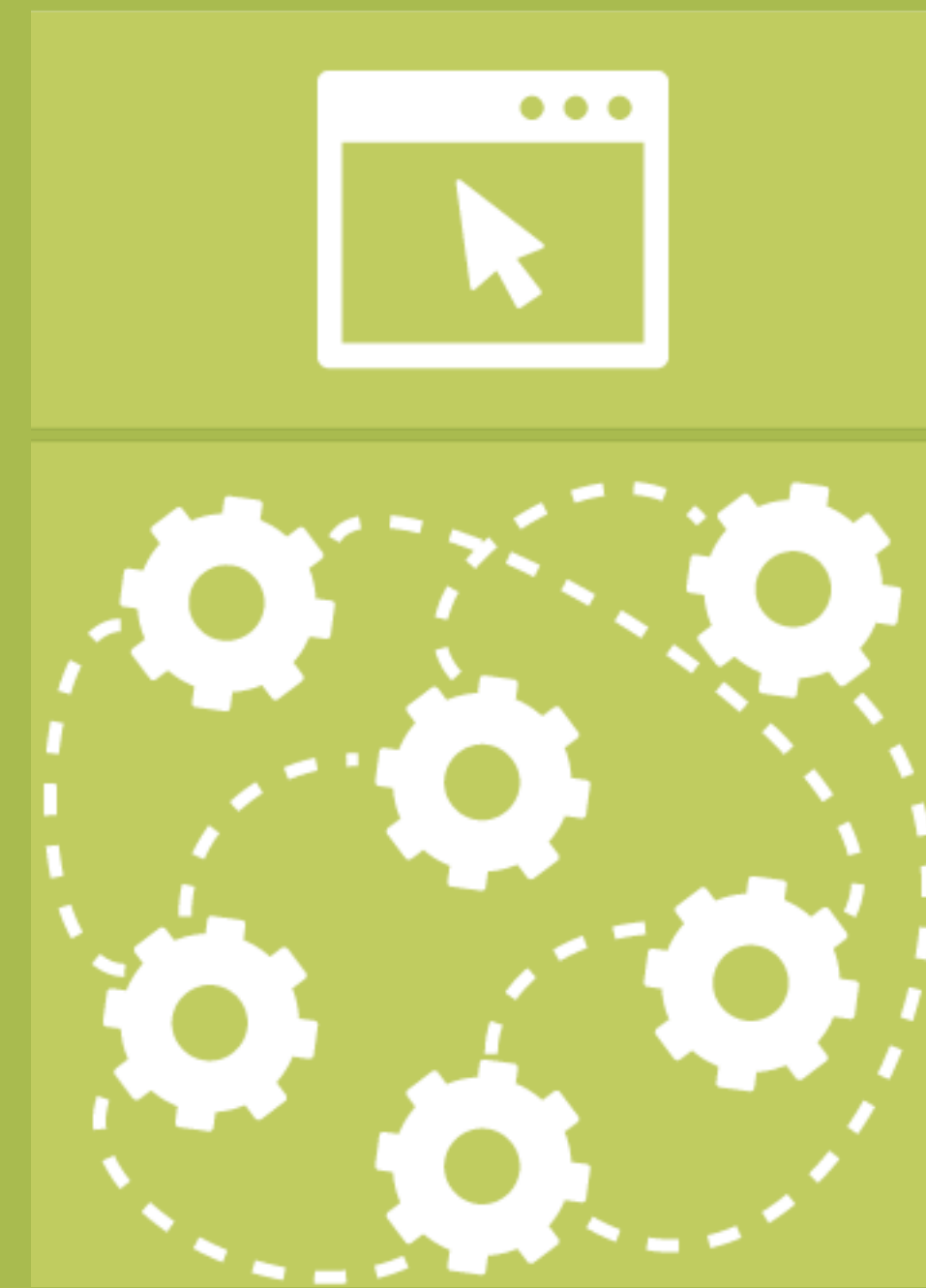
# Permissions

# Technology





VS



# Technology

traditional

geni

A background graphic consisting of several interlocking gears of varying sizes and colors (white and dark brown) arranged in a circular pattern. Dashed white lines connect the gears, suggesting a flow or process. The entire graphic is centered on a dark blue horizontal band.

# System Architecture

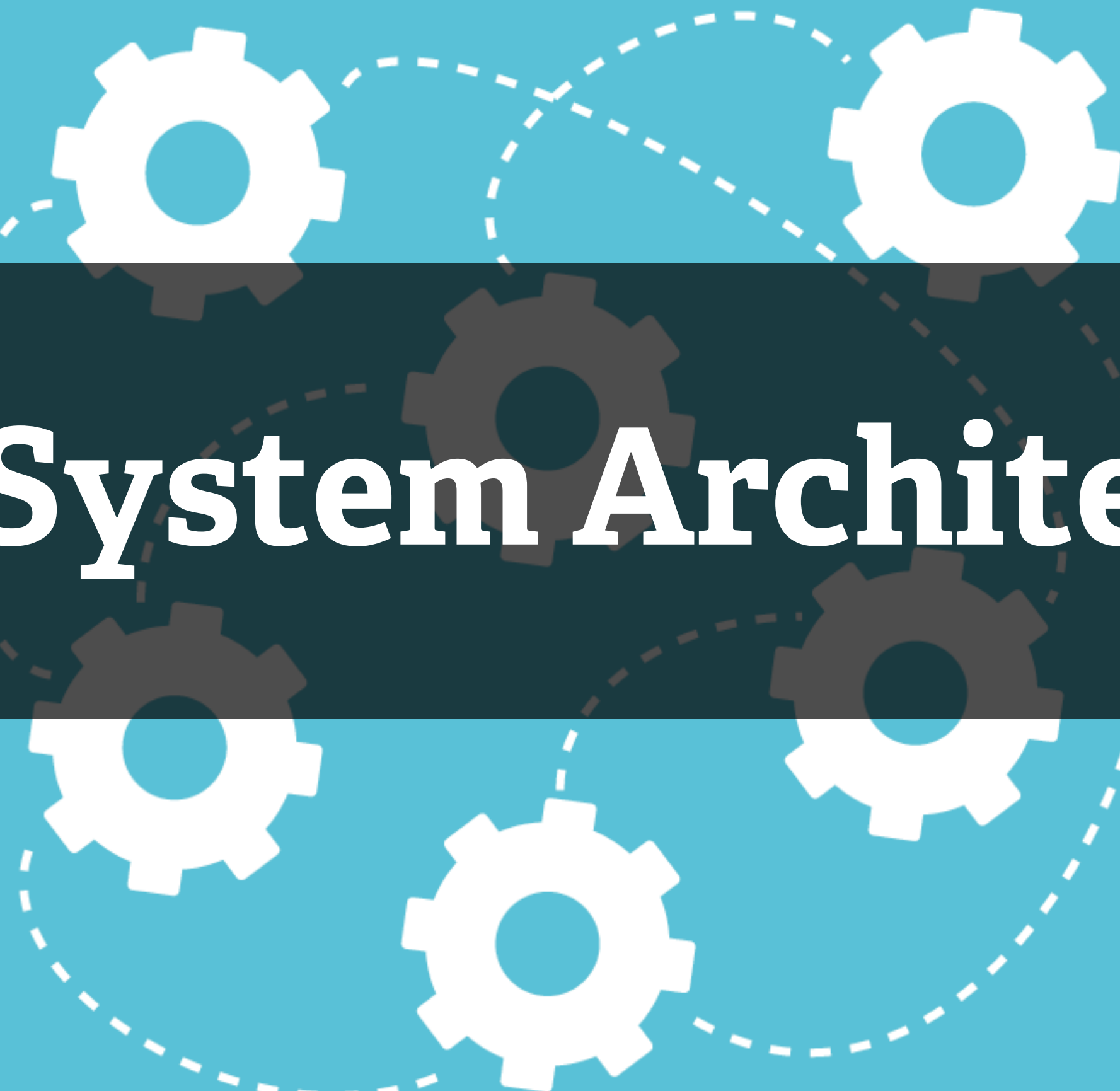


html/css/javascript  
ruby

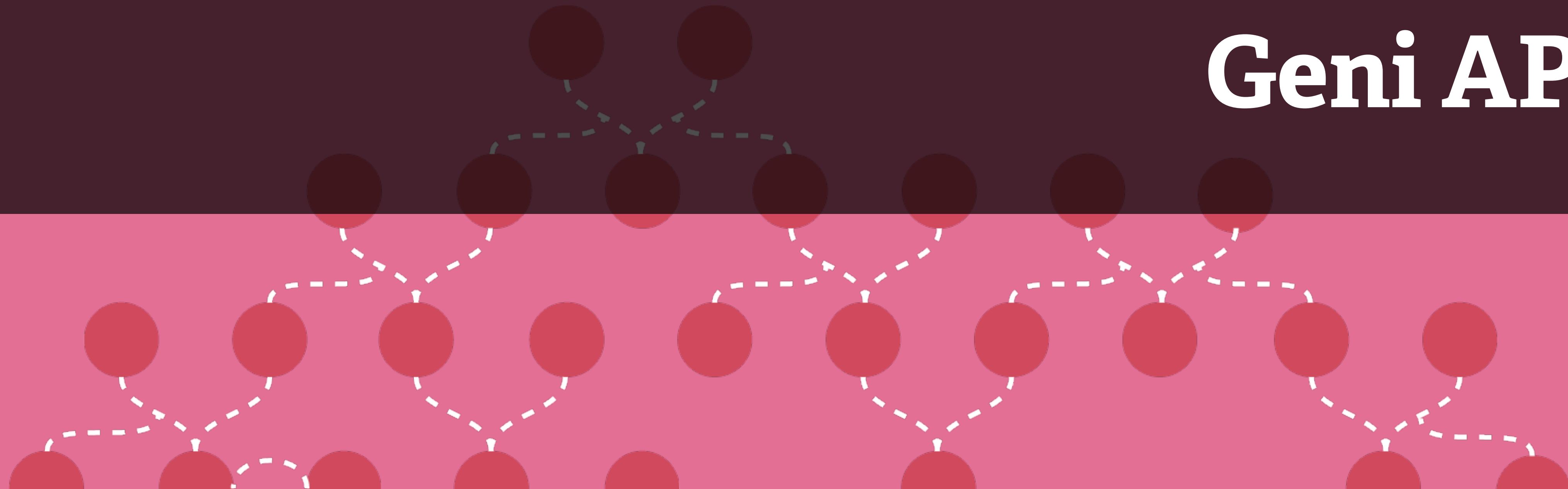


# System Architecture

clojure  
jiraph  
tokyocabinet



# Geni API





**MOBIWOLF**  
THE WOLF IS ALWAYS A WOLF



tpstry

<http://dev.geni.com>



Massachusetts  
Institute of  
Technology



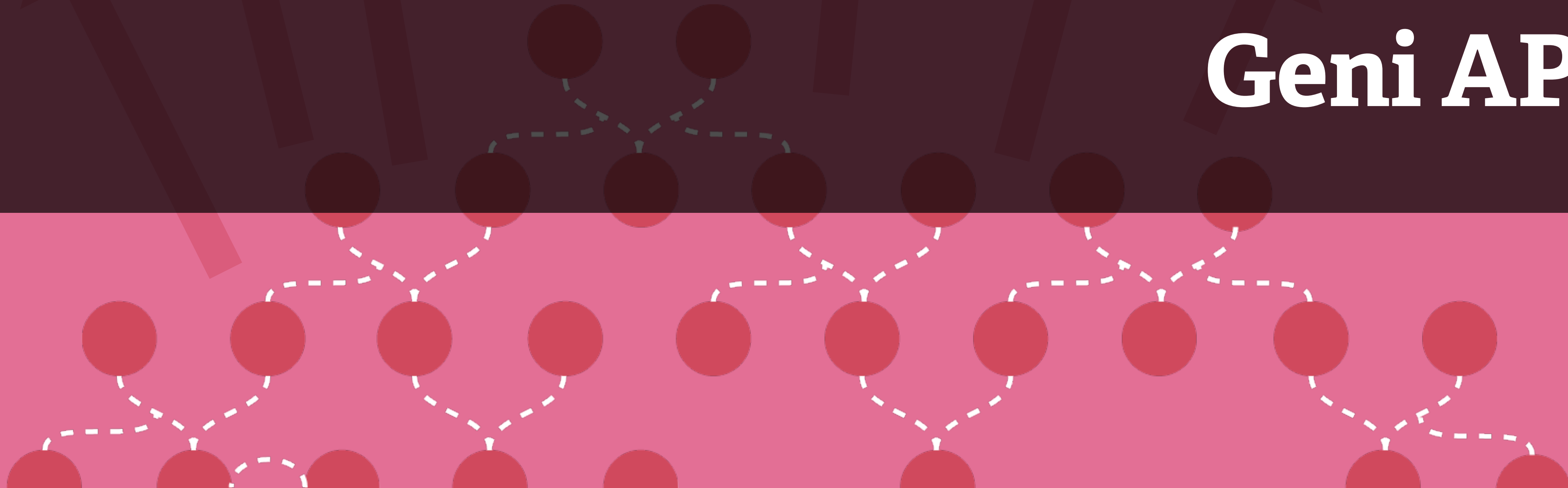
**AncestorSync**  
for **Geni**



*Tree Seek*

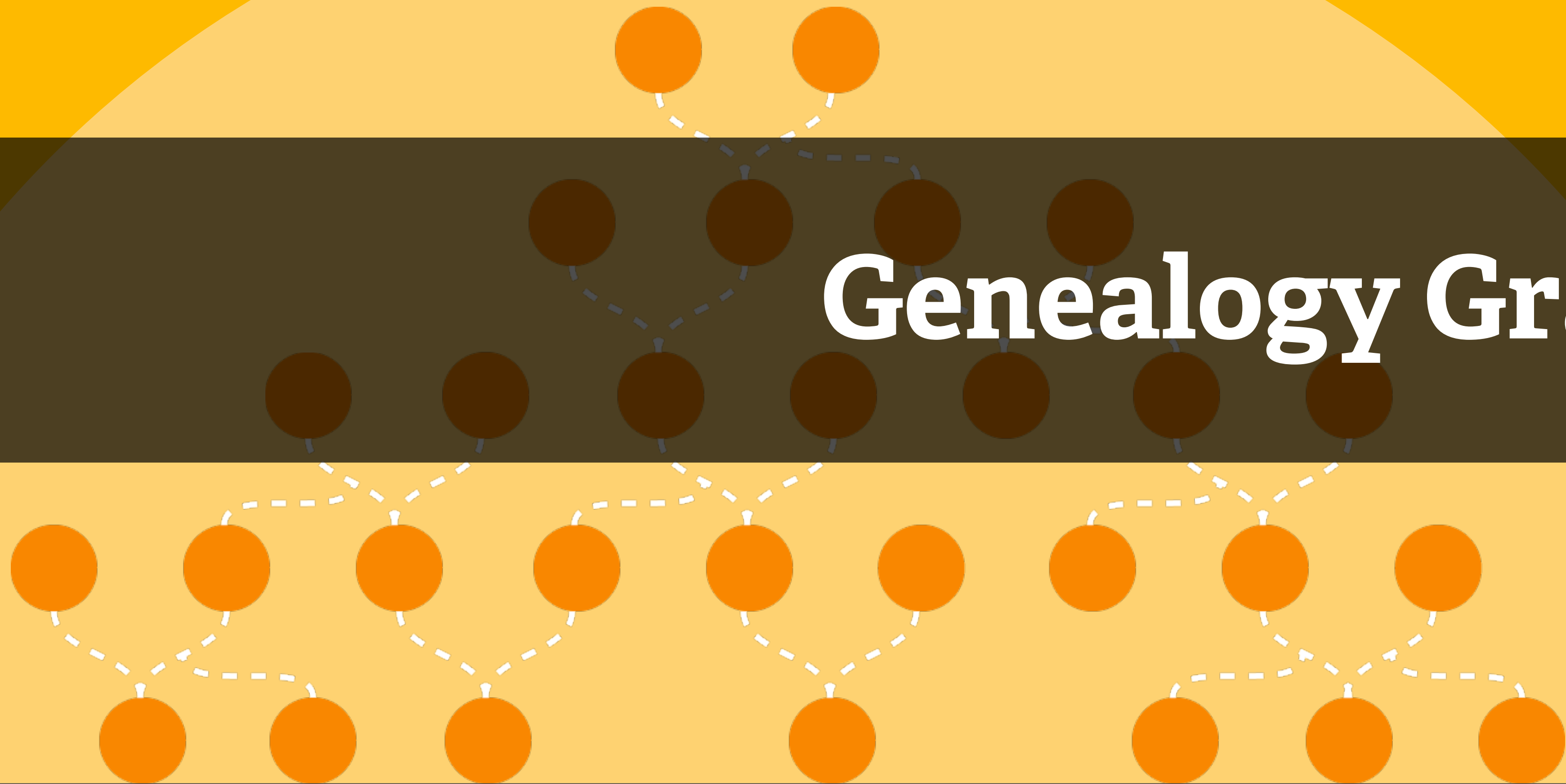
**progeny**  
GENEALOGY

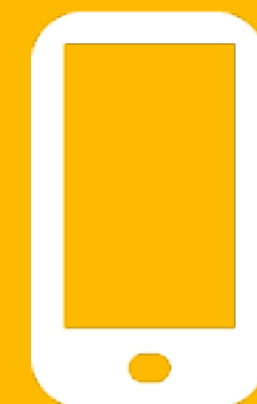
**Geni API**



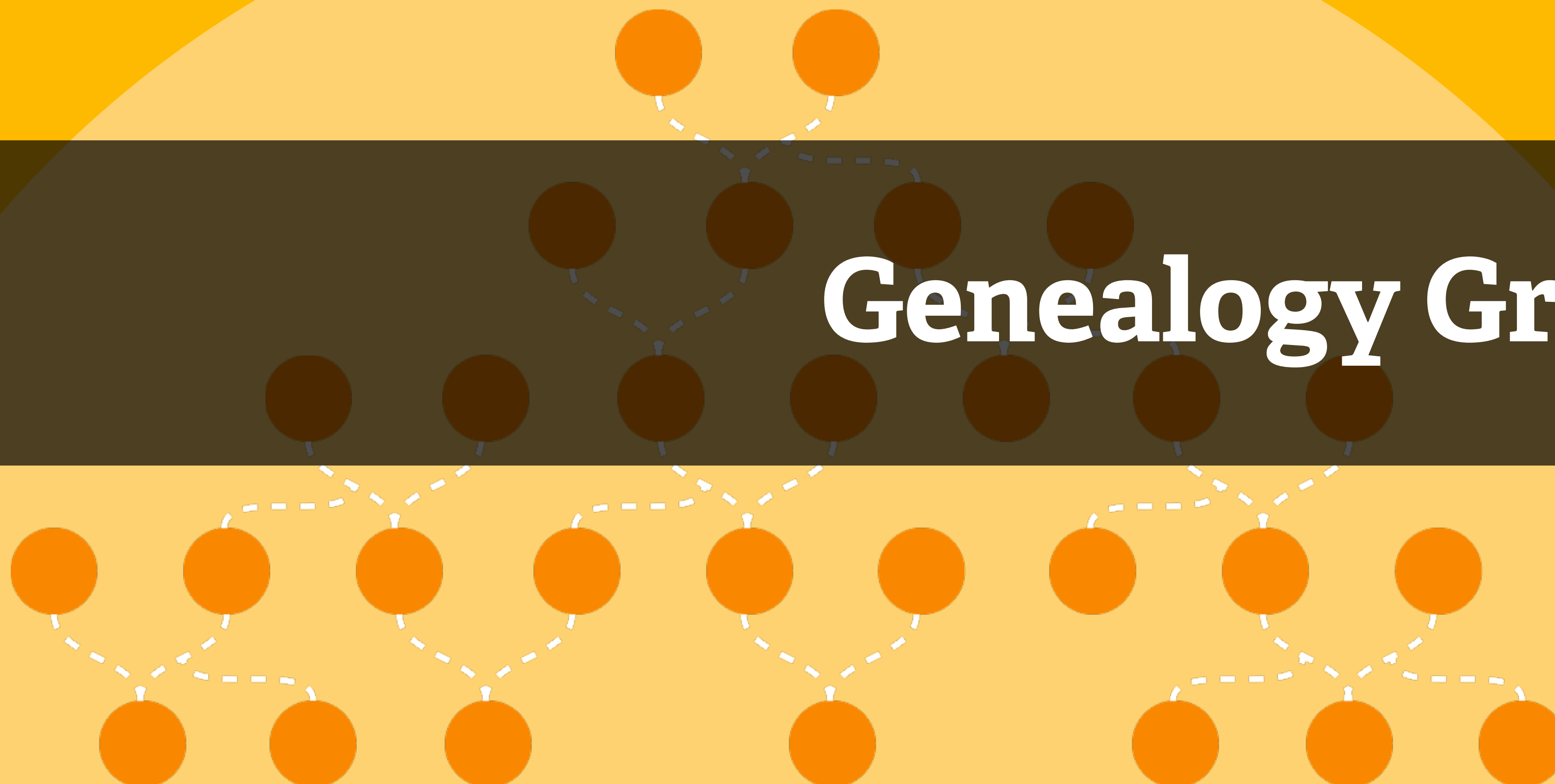


# Genealogy Graph





# Genealogy Graph



<http://opensource.geni.com>

**Open Source**



<http://opensource.geni.com>

tr8n

ruby-memcache

wakeful

jiraph

masai

cake

**Open Source**

rupture

clojure-protobuf



# Crowdsourced, Collaborative Genealogy

Noah Tutak, [geni.com](http://geni.com)