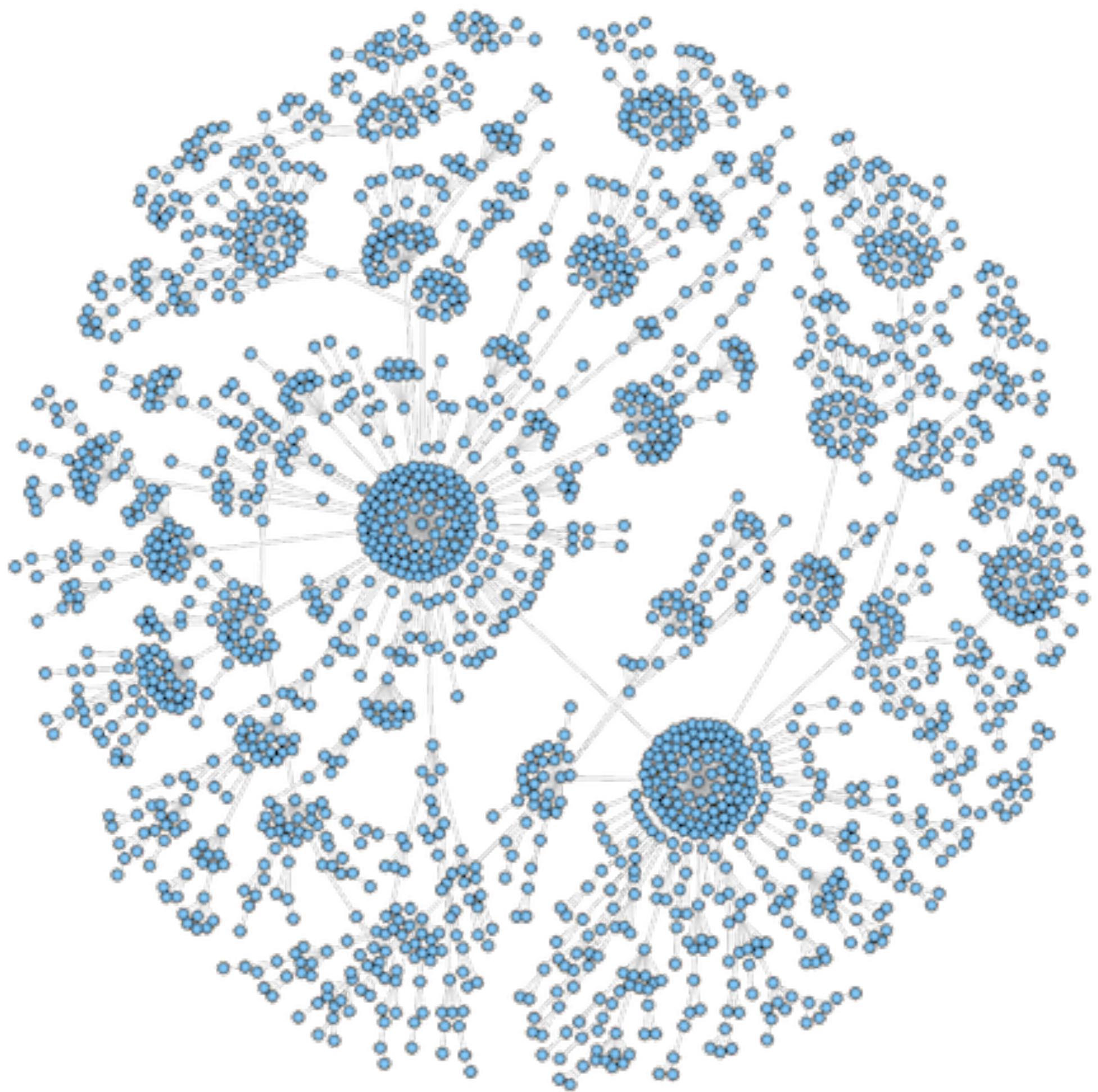


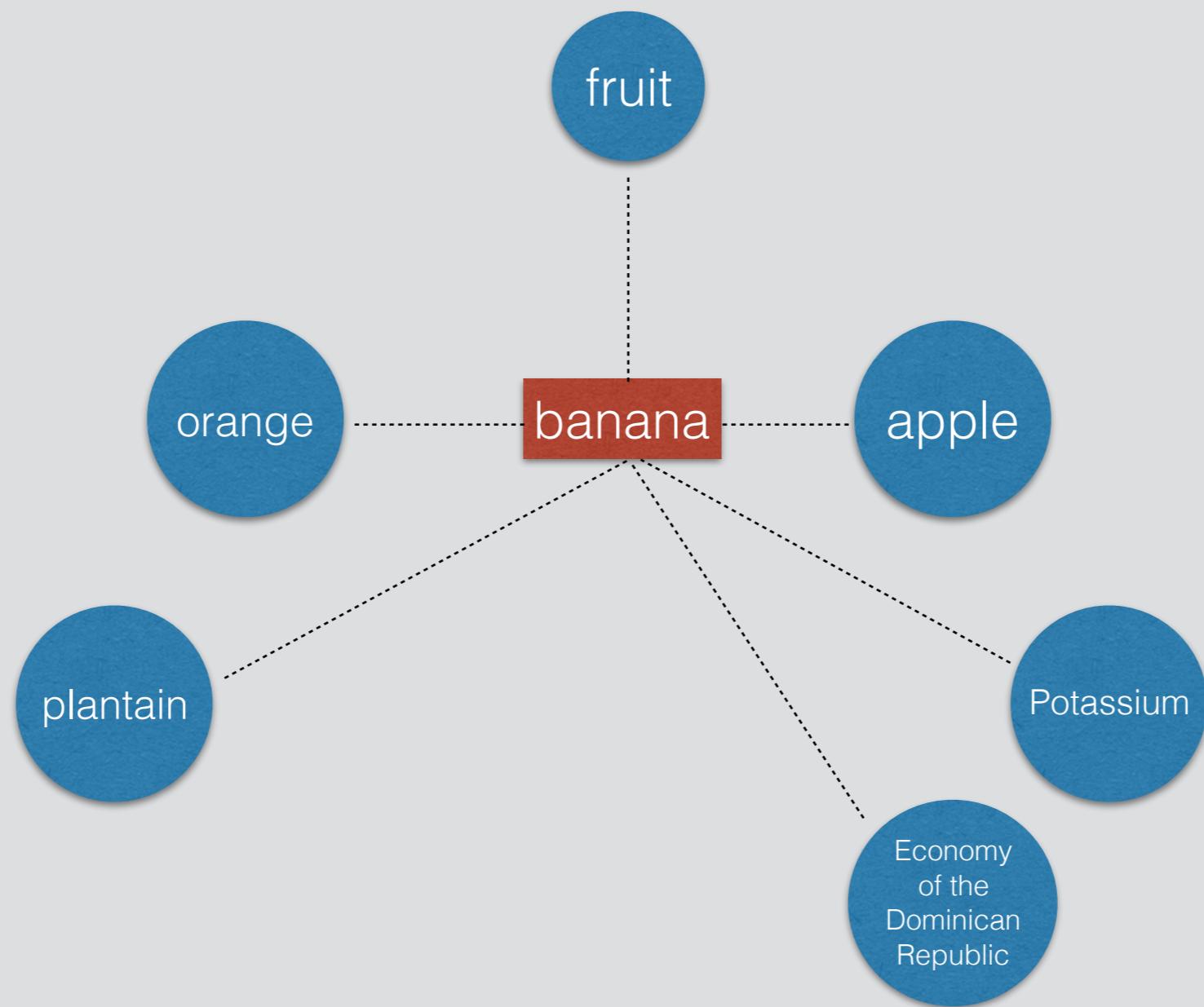
Knowledge Network

a graph search engine powered by Wikipedia

(Mark Ibrahim)



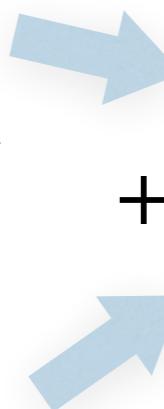
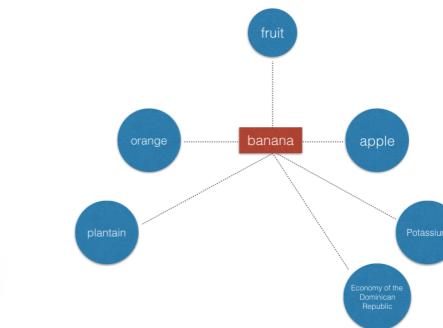
banana



Wikimedia
Foundation
Non-profit



Analytics/PageviewAPI

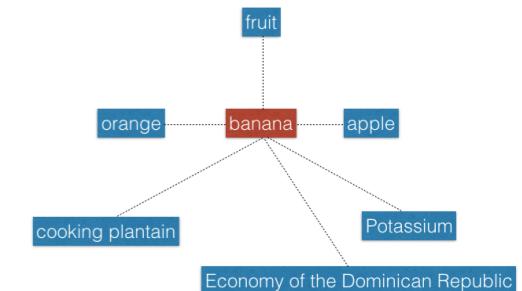


+

Wikimedia
Foundation
Non-profit

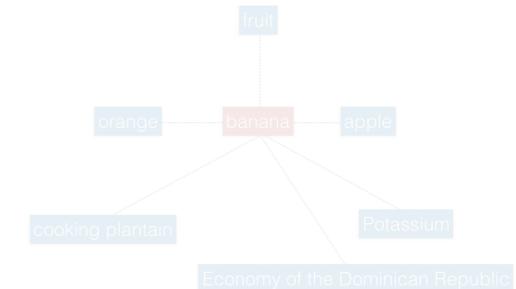


```
<api batchcomplete="">
  <query>
    <normalized>
      <n from="train" to="Train"/>
    </normalized>
    <pages>
      <page _idx="30598" pageid="30598" ns="0" title="Train">
        <revisions>
          <rev contentformat="text/x-wiki" contentmodel="wikitext">
            </revisions>
          </page>
        </pages>
      </query>
    </api>
```



Article	First Link
banana	fruit
fruit	botany
train	rail transport

Wikimedia
Foundation
Non-profit





```
$ MATCH (n)-[r:FL_T0]->(a) WHERE a.title = "New York" RETURN n LIMIT 25;
```



21.60 seconds

```
$ MATCH (n)-[r:FL_T0]->(a:Article {title: "New York"}) USING INDEX a:Article(title)  
RETURN n LIMIT 25;
```



0.53 seconds

Connecting Every Bit of Knowledge: The Structure of Wikipedia's First Link Network

Mark Ibrahim, Christopher M. Danforth, and Peter Sheridan Dodds



Online Appendices

Main

Explore Results

Code

Data

Team

Explore the paper:

- Explore results in Jupyter notebooks
- Download code and data
- Read the paper

Abstract

Apples, porcupines, and the most obscure Bob Dylan song—is every topic a few clicks from Philosophy? Within Wikipedia, the surprising answer is yes: nearly all paths lead to Philosophy. Wikipedia is the largest, most meticulously indexed collection of human knowledge ever amassed. More than information about a topic, Wikipedia is a web of naturally emerging relationships. By following the first link in each article, we algorithmically construct a directed network of all 4.7 million articles: Wikipedia's First Link Network. Here, we study the English edition of Wikipedia's First Link Network for insight into how the many articles on inventions, places, people,

About me



Mark Ibrahim

