Soccervis - Visualizing Football Transfers

Midterm Presentation

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Introduction

Facts:

- Over 10000 football transfers per year
- Billion dollar market

Our goal:

- Gather data
- Analyze
- Visualize on world map

$\rightarrow$ New insights for football fans

Crawler

→ Crawling data from www.soccerbase.com

Java 8

JSoup HTML parser
(www.jsoup.org)

Geocoder

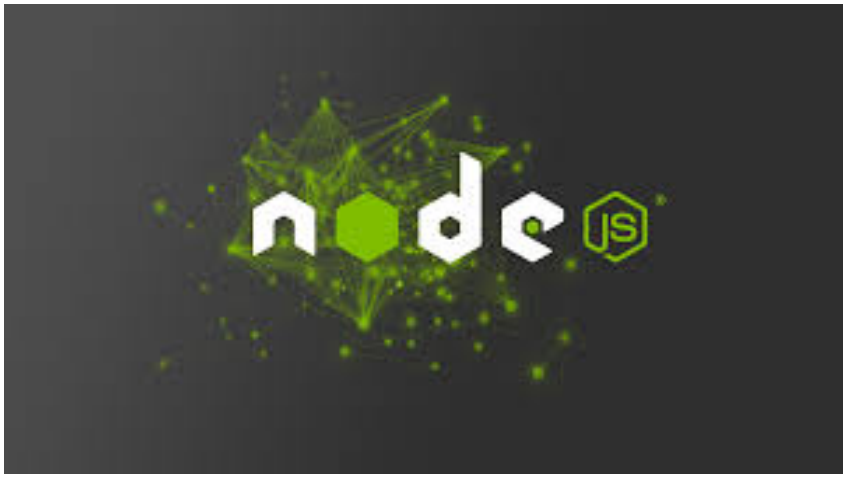
→ Find exact coordinates of the team's home grounds

Python 2

OpenCage Geocoding API

Website

→ Visualize Data



Node.js - Server-side platform

three.js

Three.js - Javascript 3D library

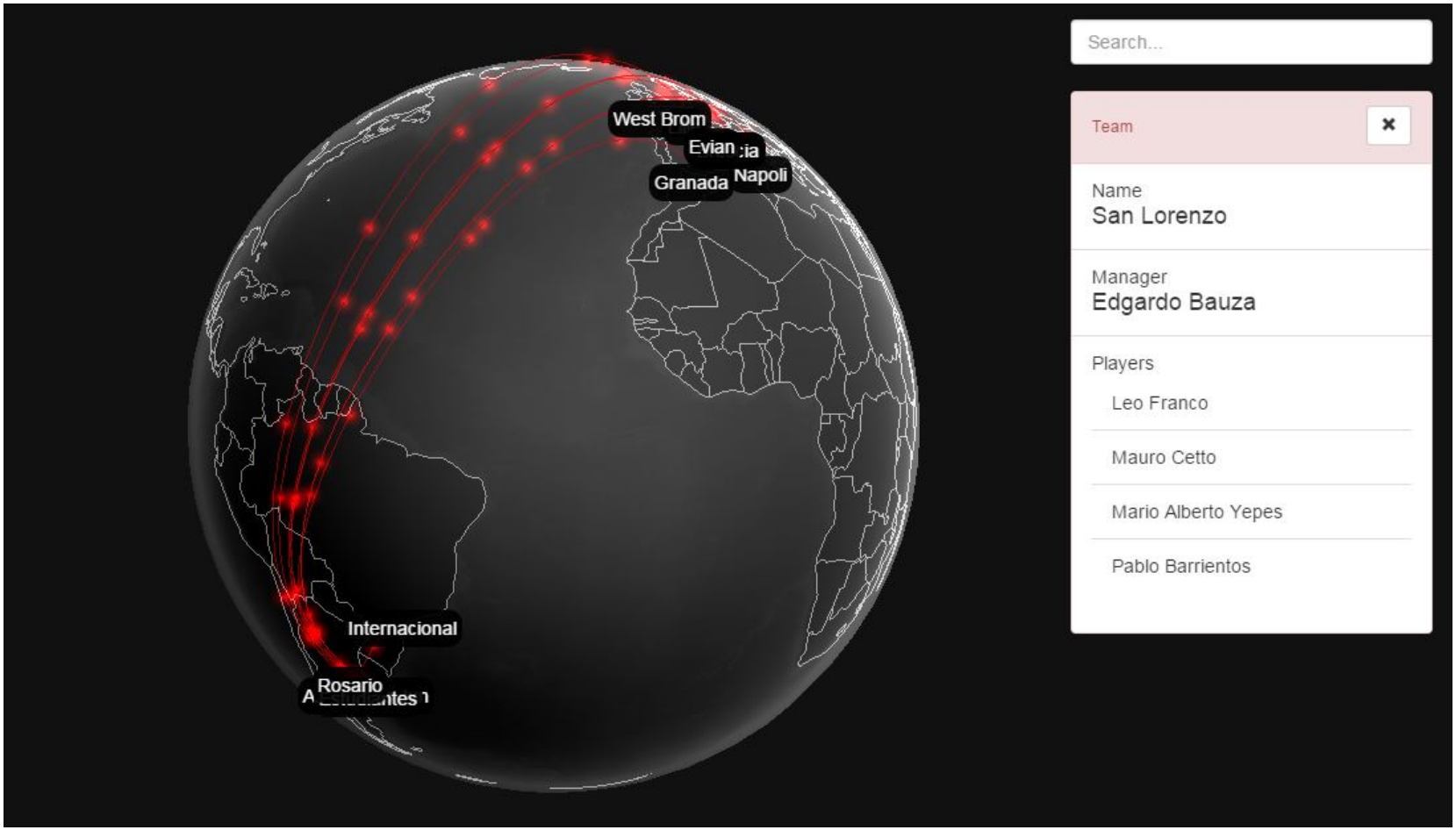
Database

Neo4j Graph Database

Data

- Data crawled from www.soccerbase.com
- Contains 100 leagues, 3000 teams, 100000 players, 300000 transfers
- For testing purposes: Small database
  $\rightarrow$ 7 teams, 200 players, 800 transfers
  $\rightarrow$ Size: 4 MB
- Database needs to be updated only when the transfer windows are open (Jan-Feb and Jun-Aug)

Demo


West Brom
Granada
Napoli
Internacional
Rosario
Search...
Team
Name
San Lorenzo
Manager
Edgardo Bauza
Players
Leo Franco
Mauro Cetto
Mario Alberto Yepes
Pablo Barrientos

Upcoming Experiments/Evaluation

- Correctness evaluation with random samples
- Performance evaluation
- ...

Outline

- Visualization of the football transfer graph (Fix bugs)✓
- Analysis and visualization of team/player statistics from the football transfer graph
- Calculation of popularity of teams using Twitter
- Inclusion and analysis of transfer rumors from different sources
- Classification and visualization of fan opinions from Twitter