sMusiq Search
....search music, the semantic way.

by Dhaval Damani & Vivek Krishna
Motivation

- Data, Data, Data....
Motivation

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- No one site to search all music
Motivation

- Data, Data, Data....
- No one site to search all music
- Not only music, based on data available, we might be able to tell more about songs.
Traditional Method..

pandora..

<table>
<thead>
<tr>
<th>id</th>
<th>song_title</th>
<th>song_description</th>
</tr>
</thead>
<tbody>
<tr>
<td>...</td>
<td>....</td>
<td>....</td>
</tr>
</tbody>
</table>
## Traditional Method..

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<tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>...</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## pandora..

<table>
<thead>
<tr>
<th>id</th>
<th>song_name</th>
<th>description_of_song</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>...</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## lala..

<table>
<thead>
<tr>
<th>id</th>
<th>song_name</th>
<th>description_of_song</th>
</tr>
</thead>
<tbody>
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<td></td>
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How to....

• Semantic Data.....RDF(Resource Description Framework)
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• "Ontology" is the life saver.
SPARQL ~ SQL

- Query Language
- Name Spaces ~ Query from all data sets
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• Unlike fields in database, we have ontology to define the fields..
  • eg. Music Ontology defines about the artist, composer, recording, publisher etc.,
What we do...

- Semantic Mashup
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- SPARQL Endpoints, Last.fm API, GoogleMaps API.
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DBtune.org - music related RDF..
Architecture..
Ways to populate Events...

- List all the events based on artist for a given search
- List all the events based on user's location.
- List all the events based on the Artist's country. This will populate all concerts in the country or city. (more generic)
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Limitations, Future Directions..

Limitations of Magnatune
• Small dataset contains ~ 300 artists
• No popular artists

Future...
• Link to other datasets connected to dbtune.
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