Lightning Queries

Miguel Branco
Obs. 1: Eating our own (dog) food
How many of you use databases to store your own data?

Obs. 2: Data Deluge
Which one are we going to “move”?
“Lightning Fast” Queries?
In-situ databases!

- Databases that operate directly on raw data files
- Large collections of files
- Multiple data formats
- Integration with existing tools
- Changing areas of interest

... lack of trust in database vendors
... databases “forever owning” the data
Great, but what about ... ...
...
... *performance*?

*competitive*
<table>
<thead>
<tr>
<th>Year</th>
<th>Make</th>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997</td>
<td>Ford</td>
<td>E350</td>
<td>ac, abs, moon</td>
<td>3000.00</td>
</tr>
<tr>
<td>1999</td>
<td>Chevy</td>
<td>&quot;Venture &quot;Extended Edition&quot;</td>
<td></td>
<td>4900.00</td>
</tr>
<tr>
<td>1999</td>
<td>Chevy</td>
<td>&quot;Venture &quot;Extended Edition, Very Large&quot;</td>
<td></td>
<td>5000.00</td>
</tr>
<tr>
<td>1996</td>
<td>Jeep</td>
<td>Grand Cherokee</td>
<td>MUST SELL! air, moon roof, loaded</td>
<td>4799.00</td>
</tr>
</tbody>
</table>

**Positional Maps + Caching + Indices + File System Integration**

**In-Situ Database**

- ✓ Usability
- ✓ Data Deluge