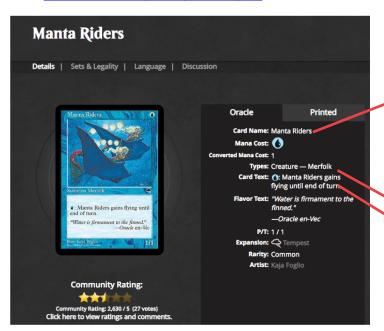


Goal

magicthegathering.io provides up-to-date information regarding all MTG trading cards available:

https://docs.magicthegathering.io/



http://gatherer.wizards.com/Pages/Card/Details.aspx?multiverseid=4711

```
<div class="smallGreyMono" style="margin-top: 5px;">
  <br/>
<br/>
b class="ft"><b></b></b>
  <div id="ctl00 ctl00 ctl00 MainContent SubContent SubContent nameRow" class="row">
    <div class="label">
      Card Name:</div>
    <div class="value">
    Manta Riders</div>
  <div id="ctl00 ctl00 ctl00 MainContent SubContent SubContent manaRow" class="row manaRow">
    <div class="label" style="line-height: 25px;">
      Mana Cost </div>
    <div class="value">
      <imq src="/Handlers/Image.ashx?size=medium&amp;name=U&amp;type=symbol" alt="Blue" align="absbottom" /></div>
  <div id="ctl00 ctl00 ctl00 MainContent SubContent SubContent cmcRow" class="row">
    <div class="label" style="font-size: .7em;">
      Converted Mana Cost:</div>
    <div class="value">
      1</div>
  <div id="ctl00 ctl00 ctl00 MainContent SubContent SubContent typeRow" class="row">
    <div class="label">
      Types:</div>
    <div class="value">
      Creature — Merfolk</div>
  <div id="ctico ctl00 ctl00 MainContent SubContent SubContent textRow" class="row">
    <div class="lahel">
      Card Text:</div
    <div class="value">
      <div class="cardtextbox style="padding-left:10px;"><img src="/Handlers/Image.ashx?size=small&amp;name=U&amp;type=sy</p>
mbol" alt="Blue" align="absbottom" />: Manta Riders gains flying until end of turn. </div>
  </div>
```



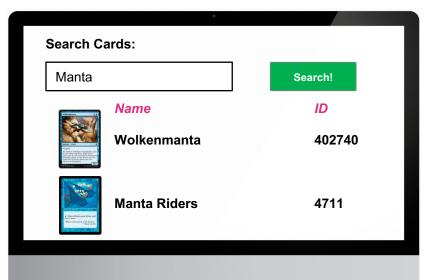
Goal

We want to make use of this data to build a searchable database of all MTG trading cards.

Workflow:

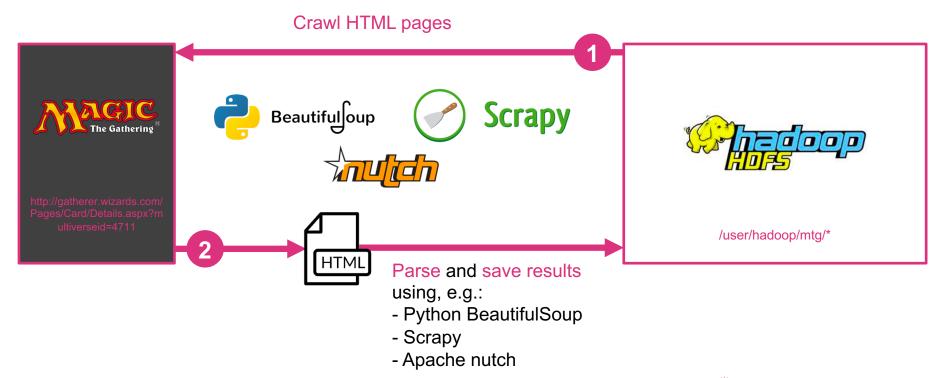
- Crawl data from gatherer.wizards.com
- Parse required information and save them to HDFS (queryable through Hive)
- Export MTG data to end-user database (e.g. MySQL, MongoDB...)
- Provide a simple HTML Frontend which is able to:
 - read from end-user database
 - process user input (card name, text or artist)
 - display search results







Dataflow: 1. Get MTG Data



Dataflow: 3. Enhance Data And Save Results











- use Hive, Python, Spark or PySpark
- save everything to a enduser database (e.g. MySQL, MongoDB)







Dataflow: 4. Provide Simple Web Interface

