```
▼<api batchcomplete="">
 ▼<query>
   ▼<pages>
     ▼<page idx="23034" pageid="23034" ns="0" title="Piano">
       ▼<revisions>
        ▶ <rev contentformat="text/x-wiki" contentmodel="wikitext"</p>
        </revisions>
      </page>
    </pages>
   </query>
 </api>
```

Spark















amazon web services™ \$3







11 million articles









```
df = sqlContext.read.format('com.databricks.spark.xml')
        options(rowTag='page').load(full_xml)
network_df = df.select("title", "revision").map(lambda s:
      (s[0],Article(s[1].text[0]).first_link())).collect()
                   1: inside Wikimedia template?
                      trigger: {{ }}
                      № 2: inside <ref>, <div>?
                        ≈ 3: inside ()?

→ valid link to Wikipedia article? 
✓
```

```
class Article:
   def __init__(self, raw_article_text):
        . . .
   def check_template(self):
        """check whether inside WikiMedia template: {} """
   def check_ref_div(self):
        """checks whether inside ref or div"""
   def check_parenthesis(self):
        . . .
 def first_link(self):
        checks...
        if valid_link_to_wiki:
            return first_link
```







Pageviews