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Building the data index

```
namespaces = {'pm': 'http://www.politicalmashup.nl', 'dc': 'http://purl.org/dc/elements/1.1/'}
files indexed = []
print glob.glob( os.path.join(folder, '*.gz'))
for filename in glob.glob( os.path.join(folder, '*.gz') ):
    files indexed.append(filename)
   with gzip.open(filename) as xml:
        tree = ET.parse(xml)
        root = tree.getroot()
        for article in root.findall('pm:root', namespaces):
            date = (article.find('pm:meta/dc:date', namespaces)).text
            subject = (article.find('pm:meta/dc:subject', namespaces)).text
            title = (article.find('pm:content/title', namespaces)).text
            if title == None:
                title = ''
            if (article.find('pm:content/text/p', namespaces)):
                text = (article.find('pm:content/text/p', namespaces)).text
                data = \{\}
                data['date'] = date
                data['subject'] = subject
                data['title'] = unicodedata.normalize('NFKD', unicode(title)).encode('ascii','ignore')
                data['text'] = unicodedata.normalize('NFKD', unicode(text)).encode('ascii','ignore')
                json data = json.dumps(data)
                res = es.index(index=INDEX, doc type='article', body=json data)
return True, files indexed
```

Searching the builded index

```
def search(es, text, fields=[], filter query={}):
        Search
        text -- Search query
        fields -- fields to search in
        filter query -- filter
        return [documents]
        body = {
          'query': {
            'query string': {
                'query': text
          'filter': filter query
75
        return es.search(index=INDEX, body=body)
```