

# Local setup of Solr and querying using solr R package, on Mac OSX

*This material is based on this blog post: <http://risnandar.wordpress.com/2013/09/08/how-to-install-and-setup-apache-lucene-solr-in-osx/>*

1. If you don't have homebrew installed, install homebrew by doing ". If you have homebrew skip to step 2.
2. Install solr by doing `brew install solr`. This installed solr v.4.5.1
3. Navigate in your terminal to an example Solr database: `cd /usr/local/Cellar/solr/4.5.1/libexec/example/`
4. Start solr: `java -jar start.jar`
5. Navigate in your browser to <http://localhost:8983/solr/#/>
6. Navigate in your terminal to `cd /usr/local/Cellar/solr/4.5.1/libexec/example/exampledocs/`, then execute `./post.sh vidcard.xml` in that directory. This inserts some data into the example database.

Try this query in your browser: (<http://localhost:8983/solr/select?q=:&wt=json>)[<http://localhost:8983/solr/select?q=:&wt=json>]

And we can now use the `solr` R package to query the Solr database to get raw JSON data:

```
url <- 'http://localhost:8983/solr/select'
solr_search(q='*:*', url=url, raw=TRUE)

[1] "{\"responseHeader\":{\"status\":0,\"QTime\":1,\"params\":{\"start\":\"0\",\"q\":\"*:*\",\"wt\":\"j\",
attr(\"class\")
[1] "sr_search"
attr(\"wt")
[1] "json"
```

Or parsed data to a data.frame (just looking at a few columns for brevity):

```
solr_search(q='*:*', url=url)[,c(1:3)]
```

|   | id                   | name  | manu               |
|---|----------------------|---|--------------------|
| 1 | EN7800GTX/2DHTV/256M | ASUS Extreme N7800GTX/2DHTV (256 MB)        | ASUS Computer Inc. |
| 2 | 100-435805           | ATI Radeon X1900 XTX 512 MB PCIE Video Card | ATI Technologies   |

## Local setup of Solr on Windows and Linux

I'm a Mac user, so I'm not too familiar with Windows and Linux, but will get to this soon, or send a pull request with instructions in this file.