1> lucene_server:start().
ok

[{name, "Ariel Ortega"}, {nick, "burrito"}]

4> lucene:add([User1,User2]).

ok

{query_time,783}, {search_time,457}]}

```
6> lucene:add([[{code, X}] || X <- lists:seq(1,10)]).
ok
7 > \{ , M \} = lucene: match("code: [0 TO 10]", 5).
{[[{code,1},{''score',1.0}],
  [{code,2},{''score',1.0}],
  [{code,3},{''score',1.0}],
  [{code,4},{''score',1.0}],
  [{code.5}.{''score'.1.0}]].
 [{total_hits,10}.
  {first_hit,1},
  {query_time, 14335},
  {search_time,3811},
  {next_page, <<172,237,0,5,115,114,0,36,99,111,109,46,</pre>
                116,105,103,101,114,116,101,120,...>>}]}
8> lucene:continue(proplists:get_value(next_page, M), 5).
{[[{code,6},{''score',1.0}],
  [{code.7}.{''score'.1.0}].
  [{code,8},{''score',1.0}],
  [{code,9},{''score',1.0}],
  [{code, 10}, {''score', 1.0}]],
 [{total hits.10}.
  {first_hit,6},
  {query_time, 2368},
  {search time.1731}}
```

{compile, "jar cf priv/lucene-server.jar -C bin ."}]}.

```
init([]) ->
 Port =
   erlang:open_port(
      {spawn_executable, Java},
      [{line,1000}, stderr_to_stdout,
       {args, JavaArgs ++
                    ["-classpath", Classpath,
                     "com.tigertext.lucene.LuceneNode",
                     ThisNode, JavaNode, erlang:get_cookie(),
                     integer_to_list(AllowedThreads)]}]),
 wait_for_ready(
    #state{java_port = Port, java_node = JavaNode})
end.
wait_for_ready(State = #state{java_port = Port}) ->
 receive
    {Port, {data, {eol, "READY"}}} ->
      true = (link(process())),
      true = erlang:monitor_node(State#state.java_node, true),
      {ok, State}:
   Info ->
 end.
```

```
public static void main(String[] args) {
  String peerName = args.length >= 1 ? args[0]
      : "lucene_server@localhost";
  String nodeName = args.length >= 2 ? args[1]
      : "lucene_server_java@localhost";
 try {
    NODE = args.length >= 3 ? new OtpNode(nodeName, args[2])
        : new OtpNode(nodeName);
    PEER = peerName;
    final OtpGenServer server = new LuceneServer(NODE);
    server.start():
   System.out.println("READY");
 } catch (IOException e1) {
    jlog.severe("Couldn't create node: " + e1);
    e1.printStackTrace();
   System.exit(1);
```

```
do_call(Process, Label, Request, Timeout) ->
    try erlang:monitor(process, Process) of
        Mref ->
. . .
    catch
        error: ->
            %% Node (C/Java?) is not supporting the monitor.
            %% The other possible case -- this node is not
            %% distributed -- should have been handled earlier.
            %% Do the best possible with monitor_node/2.
            %% This code may hang indefinitely if the Process
            %% does not exist. It is only used for featureweak
            %% remote nodes.
            Node = get_node(Process),
            monitor_node(Node, true),
. . .
    end.
```

```
public abstract class OtpGenServer extends OtpSysProcess {
 protected OtpGenServer(OtpNode host) {
    super(host);
 protected OtpGenServer(OtpNode host, String name) {
    super(host, name);
 protected abstract OtpErlangObject handleCall(
      OtpErlangObject cmd, OtpErlangTuple from)
      throws OtpStopException, OtpContinueException,
      OtpErlangException;
 protected abstract void handleCast(OtpErlangObject cmd)
      throws OtpStopException, OtpErlangException;
 protected abstract void handleInfo(OtpErlangObject cmd)
      throws OtpStopException;
 protected abstract void (terminate)(OtpErlangException oee);
```

```
protected OtpErlangObject handleCall(OtpErlangObject cmd,
    OtpErlangTuple from)
    throws OtpStopException, OtpContinueException,
    OtpErlangException {
 OtpErlangTuple cmdTuple = (OtpErlangTuple) cmd;
 OtpErlangAtom cmdName = (OtpErlangAtom) cmdTuple.elementAt(0);
 if (cmdName.atomValue().equals("pid")) {
    return super.getSelf();
 } else if (cmdName.atomValue().equals("match")) {
    String queryString =
      ((OtpErlangString) cmdTuple.elementAt(1)).stringValue();
    int pageSize =
      ((OtpErlangLong) cmdTuple.elementAt(2)).intValue();
   runMatch(queryString, pageSize, from);
    throw new OtpContinueException();
 } else
. . .
```

```
9> lucene:add(
    [[{index, I},{location, lucene_utils:geo(I/2,I+1.5)}]
     | | I < - lists:seq(-10,10)] \rangle.
ok
10> lucene:match("location.near:0.0,1.0,100", 3).
{[[{index,0},
   {location, {geo, -8.381903171539307e-8, 1.5000000782310963}},
   {''score', -17.292743682861328}],
  [{index,-1},
   {location, {geo, -0.5000000540167093, 0.500000137835741}},
   {''score', -24.45547866821289}]],
 [{total_hits,2},
  {first_hit,1},
  {query_time, 1984},
  {search_time, 1021}]}
```

```
11> lucene:match(
    "index.erlang:\"lists:map:[fun(X) -> X*1.0 end]\"", 3).
{[[{index,10},
    {location,{geo,4.999999953433871,11.500000152736902}},
    {''score',5.0}],
[{index,9},
    {location,{geo,4.499999983236194,10.49999987706542}},
    {''score',4.499999523162842}],
[{index,8},
    {location,{geo,4.000000013038516,9.499999936670065}},
    {''score',3.999999761581421}].
```

{next_page, <<172,237,0,5,115,114,0,36,99,111,109,46,</pre>

116.105.103.101.114.116.101.120....>>}]}

[{total_hits,21},
 {first_hit,1},
 {query_time,2256},
 {search_time,1240},