

# LuceneDocumentUberspect

This class is an Uberspect implementation that gets values from Lucene Documents for display in Velocity templates.

It's not finished – it does not yet handle situations where the documents has more than one field with the same name (or more than one value per field, depending on how you look at it), but still provides a useful (I think) example of a concrete Uberspect implementation that works with [MultiUberspect](#) (and how simple it can be).

Using this class, one can echo the value of fields in Lucene documents inside templates just as one would echo values from regular [JavaBeans](#).

```
/** org.apache.velocity.tools.generic.introspection.LuceneDocumentUberspect
    Allows Velocity to Introspect Lucene Documents
    November 2004
    Eric Fixler <fix@smete.org>
    $Id: LuceneDocumentUberspect.java,v 1.1.2.1 2004/12/16 03:45:01 fix Exp $
 */

/*
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 */

package org.apache.velocity.tools.generic.introspection;

import org.apache.velocity.util.introspection.Info;
import org.apache.velocity.util.introspection.Uberspect;
import org.apache.velocity.util.introspection.UberspectImpl;
import org.apache.velocity.util.introspection.VelPropertyGet;
import org.apache.velocity.util.introspection.VelPropertySet;

import org.apache.log4j.Logger;
import org.apache.lucene.document.*;

public class LuceneDocumentUberspect extends UberspectImpl {

    public LuceneDocumentUberspect() {

    }

    /**
     * Property getter - returns VelPropertyGet appropos for #set($foo = $bar.woogie).
     * <br />
     *
     * @param obj the object
     * @param identifier the name of the property
     * @param i a bunch of information.
     * @return a valid <code>VelPropertyGet</code>, if it was found.
     * @throws Exception failed to create a valid <code>VelPropertyGet</code>.
     */
    public VelPropertyGet getPropertyGet(Object obj, String identifier, Info info)
        throws Exception
    {
        if (obj == null) throw new IllegalArgumentException("Target must not be null");
        if (!(obj instanceof Document)) throw new IllegalArgumentException("Target must be a lucene
document, not a(n) " + obj.getClass().getName());
        return new LuceneDocumentGet(identifier);
    }
}
```

```

protected static class LuceneDocumentGet implements VelPropertyGet {
    protected String fieldName = null;
    protected LuceneDocumentGet(String fieldName) {
        this.fieldName = fieldName;
    }
    public final String getMethodName() {
        return "Document.getField(" + fieldName + ")";
    }

    public final boolean isCacheable() { return true; }

    public Object invoke(Object o) throws Exception {
        if (o == null) return null;
        if (! (o instanceof Document)) throw new IllegalArgumentException("Target must be a lucene,
not a(n) " + o.getClass().getName());
        Document doc = (Document) o;
        return doc.get(this.fieldName);
    }
}

}

// $Log: LuceneDocumentUberspect.java,v $
// Revision 1.1.2.1 2004/12/16 03:45:01 fix
// -- Uberspect for LuceneDocuments
//

```