

# AutoMap Component Reference Manual

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## **Abstract**

AutoMap is software for computer-assisted Network Text Analysis (NTA). The AutoMap components are a collection of programs that implement the features available in AutoMap.



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## AutoMap Components

The AutoMap components are a collection of over 60 java executable programs for use in Network Text Mining applications. These components are used by interface programs such as AutoMap GUI, AutoMap Script, and SORASCS.

## How To Use

The components require Java 1.6 or higher and are callable via a command line interface. The following example shows how to call the Lowercase routine.

```
C:\> java -cp am3.jar edu.cmu.casos.automap.Lowercase C:\in C:\out
```

The C:\in and the C:\out directories are example input and output directories and are given as command line parameters passed to the Lowercase routine.

The AutoMap components are not directly callable from a Java program except to the extent to which any main() may be called. No guarantee is given to components being called in this manner.

## Classifications

Preprocessing Filter

Generation Routine

Supplemental Procedure

File Utility

CEMap Component

Internal Command

External Tool

## Component Reference

This section gives an alphabetical list of all AutoMap components. This list may not include routines that are used by the AutoMap components

indirectly or routines that may be called by 3<sup>rd</sup> party libraries that AutoMap may make use of.

Mandatory arguments are listed in <angle brackets> with the pipe | symbol being used to identify accepted options. Optional arguments are in [square brackets]. Routines marked with an asterisk (\*) denote components that heavily leverage a 3rd party library, other than libraries provided with Java.

## ***AddAttribute***

**Classification:** Supplemental Procedure

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.AddAttribute <semanticnet_dir>  
<output_dir> <attrib.csv>
```

### **Parameters:**

<semanticnet\_dir>     input directory of DyNetML files

<output\_dir>            output directory of DyNetML files

<attrib.csv>

## ***AddAttribute3Col***

**Classification:** Supplemental Procedure

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.AddAttribute3Col  
<semanticnet_dir> <output_dir> <attrib.csv>
```

### **Parameters:**

<semanticnet\_dir>

<output\_dir>

<attrib.csv>

## ***AddImages***

**Classification:** Supplemental Procedure

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.AddImages <network file>  
<outfile> [-k]
```

### **Parameters:**

<network file>

<outfile>

-k flag preserves pre-existing images

## ***AddMeta***

**Classification:** Internal Command

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.AddMeta <metadata_file>  
<input_dir> <output_dir> <column_type>
```

### **Parameters:**

<metadata\_file>

<input\_dir>

<output\_dir>

<column\_type>

## ***AddTimeFileName***

???

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.AddTimeFileName <input_dir>
```

### **Parameters:**

<input\_dir>



## ***Anaphora***

????

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.Anaphora <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## ***AttributesToProps***

**Classification:** Supplemental Procedure

**Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.AttributesToProps <input_dir>  
<output_dir>
```

**Parameters:**

<input\_dir>

<output\_dir>

## ***BeliefEnhancement***

**Classification:** Supplemental Procedure

**Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.BeliefEnhancement <input_dir>  
<output_dir> <belief_enhancement_file> <network type m|s>
```

**Parameters:**

<input\_dir>

<output\_dir>

<belief\_enhancement\_file>

<network type m|s>

## ***BigramText***

**Classification:** Internal Command

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.BigramText <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## ***CRFSuggestion***

**Classification:** Generation Routine

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.CRFSuggestion <input_dir>  
<output_dir> <crf_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

<crf\_dir>

## ***CharsetToolkit***

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.CharsetToolkit <input>  
<output_dir> [Directory|perFile]
```

### **Parameters:**

<input>

<output\_dir>

[Directory|perFile]

Note: input can either be a directory or a file

## ***ClickIt***

**Classification:** Supplemental Procedure

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.ClickIt <network_file>  
<output_file> <location>
```

### **Parameters:**

<network\_file>

<output\_file>

<location>

## ***CombineThesauri***

**Classification:** Supplemental Procedure

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.CombineThesauri <output_file>  
[thes_file] [thes_file] ...
```

### **Parameters:**

<output\_file>

[thes\_file]



## ***ConceptList***

**Classification:** Generation Routine

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.ConceptList <input_dir>  
<output_dir> <gram_type>
```

### **Parameters:**

<input\_dir>

<output\_dir>

<gram\_type>

## ***ConvertTextEncoding***

**Classification:** Preprocessing Filter

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.ConvertTextEncoding <input>  
<output_dir> <encoding> [perDirectory|perFile]
```

### **Parameters:**

<input>

<output\_dir>

<encoding>

[perDirectory|perFile]

Note: input can either be a directory or a file

## ***Dedupe***

**Classification:** File Utility

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.Dedupe <input_dir> <output_dir>  
<duplicate_dir> <log_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

<duplicate\_dir>

<log\_dir>

## ***Delete***

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.Delete <input_dir> <output_dir>  
<D|R> <delete_file>
```

### **Parameters:**

<input\_dir>

<output\_dir>

<D|R>

<delete\_file>

## ***DyNetMIEditor***

**Classification:** External Tool

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.DyNetMIEditor <input_file>  
<output_file> <node_list_file>
```

### **Parameters:**

<input\_file>

<output\_file>

<node\_list\_file>

## ***ExtractNumerics***

**Classification:** Generation Routine

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.ExtractNumerics <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## ***FetchMail***

**Classification:** CEMap Component

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.FetchMail <protocol>  
<username> <password> <server> [folder] <output_body>  
<output_header>
```

### **Parameters:**

<protocol>

<username>

<password>

<server>

[folder]

<output\_body>

<output\_header>

protocol may be any of imap, imaps, pop3, or pop3s

server string is of the form address[:port]

## ***FilterDirectory***

**Classification:** File Utility

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.FilterDirectory <input_dir>  
<output_dir> <filter>
```

### **Parameters:**

<input\_dir>

<output\_dir>

<filter>



## ***FilterText***

**Classification:** File Utility

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.FilterText <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## ***General***

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.General <input_dir>  
<output_dir> <thesaurus>
```

### **Parameters:**

<input\_dir>

<output\_dir>

<thesaurus>

## ***GenerateMetaNetwork***

**Classification:** Generation Routine

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.GenerateMetaNetwork  
<metalist_dir> <semanticlist_dir> <properties_dir> <output_dir>
```

### **Parameters:**

<metalist\_dir>

<semanticlist\_dir>

<properties\_dir>

<output\_dir>

## ***GenerateSemanticNetwork***

**Classification:** Generation Routine

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.GenerateSemanticNetwork  
<concept_dir> <semanticlist_dir> <properties_dir> <output_dir>
```

### **Parameters:**

<concept\_dir>

<semanticlist\_dir>

<properties\_dir>

<output\_dir>

## ***KStemMain***

\*\*\*

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.KStemMain <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## ***KStemmer***

\*\*\*

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.KStemmer <input_dir>  
<output_dir> <stem_capitalization y|n>
```

### **Parameters:**

<input\_dir>

<output\_dir>

<stem\_capitalization y|n>

## ***Keep***

**Classification:** Internal Command

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.Keep <keep_file> <input_dir>  
<output_dir> <adjacency>
```

### **Parameters:**

<keep\_file>

<input\_dir>

<output\_dir>

<adjacency>

## ***KeepConcepts***

**Classification:** Internal Command

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.KeepConcepts <input_dir>  
<output_dir> <keep_file>
```

### **Parameters:**

<input\_dir>

<output\_dir>

<keep\_file>



## ***KeyWordInContext***

**Classification:** Generation Routine

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.KeyWordInContext <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## *Lowercase*

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.Lowercase <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## ***LowercaseConcepts***

**Classification:** Internal Command

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.LowercaseConcepts <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## *Merge*

**Classification:** Supplemental Procedure

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.Merge <input_dir1> <input_dir2>  
<output_dir>
```

### **Parameters:**

<input\_dir1>

<input\_dir2>

<output\_dir>

## ***MergeDeleteLists***

**Classification:** Supplemental Procedure

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.MergeDeleteLists <output_file>  
[delete_list_file] [delete_list_file] ...
```

### **Parameters:**

<output\_file>

[delete\_list\_file]

## ***MetaNet***

**Classification:** Generation Routine

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.MetaNet <concept_dir>  
<semantic_dir> <properties_input_dir> <output_dir>
```

### **Parameters:**

<concept\_dir>

<semantic\_dir>

<properties\_input\_dir>

<output\_dir>

## ***MetaNetText***

**Classification:** Generation Routine

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.MetaNetText <input_dir>  
<output_dir> <metanet_thesauri>
```

### **Parameters:**

<input\_dir>

<output\_dir>

<metanet\_thesauri>

## ***NamedEntity***

**Classification:** Generation Routine

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.NamedEntity <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>



## ***PStemmerMain***

\*\*\*

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.PStemmerMain <input_dir>  
<output_dir> <porter_language>
```

### **Parameters:**

<input\_dir>

<output\_dir>

<porter\_language>

## ***PdfConverter***

\*\*\*

**Classification:** File Utility

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.PdfConverter <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## ***PosTagger***

**Classification:** Generation Routine

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.PosTagger <input_dir>  
<output_dir> <POS_dir> <posType aggregate|ptb> <save_output_as  
csv|txt>
```

### **Parameters:**

<input\_dir>

<output\_dir>

<POS\_dir>

<posType aggregate|ptb>

<save\_output\_as csv|txt>

## ***PositiveThesauri***

**Classification:** Generation Routine

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.PositiveThesauri <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## ***Properties***

**Classification:** Generation Routine

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.Properties <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## ***RemoveExtraWhite***

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.RemoveExtraWhite [-t] [-n]  
<input_dir> <output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

-t flag causes excess tabs to be removed

-n flag causes excess newlines to be removed

## ***RemoveNumbers***

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.RemoveNumbers <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## ***RemovePunct***

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.RemovePunct <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>



## ***RemoveSym***

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.RemoveSym <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## ***RemoveUserSym***

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.RemoveUserSym <input_dir>  
<output_dir> <symbol_file>
```

### **Parameters:**

<input\_dir>

<output\_dir>

<symbol\_file>

## ***SemanticList***

**Classification:** Generation Routine

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.SemanticList <input_dir>  
<output_dir> <window_size> <direction B|U> <window_reset>
```

### **Parameters:**

<input\_dir>

<output\_dir>

<window\_size>

<direction B|U>

<window\_reset>

    window\_reset should be A, W=n, S=n, or P=n, n a positive integer

## ***SemanticNet***

**Classification:** Generation Routine

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.SemanticNet <concept_dir>  
<semantic_dir> <properties_dir> <output_dir>
```

### **Parameters:**

<concept\_dir>

<semantic\_dir>

<properties\_dir>

<output\_dir>

## ***SpiderDriver***

\*\*\*

**Classification:** CEMap Component

**Usage:** java -cp am3.jar edu.cmu.casos.automap.SpiderDriver [options]  
<output\_dir> <URL>

### **Parameters:**

<output\_dir>

<URL>

[options]

--documents

--max-size=n

--quota=size

--random-wait

--timeout=n

--tries=n

--user-agent=string

--wait=n

All numeric values must be nonnegative, a limit of 0 means no limit

## ***SubmatrixSelection***

**Classification:** Internal Command

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.SubmatrixSelection  
<meta_list_dir> <types_file> <output_dir>
```

### **Parameters:**

<meta\_list\_dir>

<types\_file>

<output\_dir>

## ***ThesauriSort***

**Classification:** Supplemental Procedure

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.ThesauriSort <thesaurus_file>  
<output_file>
```

### **Parameters:**

<thesaurus\_file>

<output\_file>

## ***Threshold***

**Classification:** Internal Command

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.Threshold <input_dir>  
<output_dir> <threshold>
```

### **Parameters:**

<input\_dir>

<output\_dir>

<threshold>



## ***Union***

**Classification:** Supplemental Procedure

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.Union <input_dir> <output_dir>  
<union_file_name> <union_type>
```

### **Parameters:**

<input\_dir>

<output\_dir>

<union\_file\_name>

<union\_type>

## ***UnionConcepts***

**Classification:** Supplemental Procedure

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.UnionConcepts <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## ***UnionKeyWordsInContext***

**Classification:** Supplemental Procedure

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.UnionKeyWordsInContext  
<input_dir> <output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## *Uppercase*

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.Uppercase <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## *UppercaseConcepts*

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.UppercaseConcepts <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## ***WhiteNumbers***

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.WhiteNumbers <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## ***WhitePunct***

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.WhitePunct <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>

## ***WhiteSym***

**Classification:** Preprocessing Filter

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.WhiteSym <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>



## ***WordDocConverter***

\* \* \*

**Classification:** File Utility

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.WordDocConverter <input_dir>  
<output_dir>
```

```
<input_dir> <output_dir>
```

## ***WordList***

**Classification:** Internal Routine

### **Usage:**

```
java -cp am3.jar edu.cmu.casos.automap.WordList <input_dir>  
<output_dir>
```

### **Parameters:**

<input\_dir>

<output\_dir>