

My Project

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Contents

1	Hierarchical Index	1
1.1	Class Hierarchy	1
2	Class Index	3
2.1	Class List	3
3	Class Documentation	5
3.1	air.AbstractDocumentCommandWrapper.AbstractDocumentCommand Class Reference	5
3.1.1	Member Function Documentation	7
3.1.1.1	execute()	7
3.1.1.2	getName()	7
3.2	air.AbstractDocumentCommandWrapper Class Reference	8
3.2.1	Detailed Description	10
3.3	air.DocumentCommandWrapper.AddBoxAnnotationDocumentCommand Class Reference	10
3.3.1	Member Function Documentation	11
3.3.1.1	execute()	11
3.3.1.2	getName()	11
3.4	air.DocumentCommandWrapper.AddCircleAnnotationDocumentCommand Class Reference	12
3.4.1	Member Function Documentation	13
3.4.1.1	execute()	13
3.4.1.2	getName()	13
3.5	air.DocumentCommandWrapper.AddTextAnnotationDocumentCommand Class Reference	14

3.5.1	Member Function Documentation	15
3.5.1.1	execute()	15
3.5.1.2	getName()	15
3.6	air.AIRMain Class Reference	16
3.6.1	Detailed Description	16
3.6.2	Member Function Documentation	16
3.6.2.1	test(String[] args)	16
3.7	air.DocumentCommandWrapper.DeleteAnnotationDocumentCommand Class Reference	17
3.7.1	Member Function Documentation	18
3.7.1.1	execute()	18
3.7.1.2	getName()	18
3.8	air.DocumentCommandWrapper Class Reference	19
3.8.1	Detailed Description	21
3.8.2	Member Function Documentation	21
3.8.2.1	loadDocumentAtPath(String aPath)	21
3.8.2.2	save(String aPath)	21
3.9	air.AbstractDocumentCommandWrapper.makeCommand Interface Reference	22
3.10	air.DocumentCommandWrapper.MoveAnnotationDocumentCommand Class Reference	23
3.10.1	Member Function Documentation	24
3.10.1.1	execute()	24
3.10.1.2	getName()	24
3.11	air.AbstractDocumentCommandWrapper.RedoAnnotationDocumentCommand Class Reference	25
3.11.1	Member Function Documentation	26
3.11.1.1	execute()	26
3.11.1.2	getName()	27
3.12	air.DocumentCommandWrapper.ReplaceAnnotationDocumentCommand Class Reference	27
3.12.1	Member Function Documentation	28
3.12.1.1	execute()	28

3.12.1.2	getName()	29
3.13	air.DocumentCommandWrapper.SaveDocumentCommand Class Reference	29
3.13.1	Member Function Documentation	30
3.13.1.1	execute()	30
3.13.1.2	getName()	31
3.14	air.DocumentCommandWrapper.SaveTextDocumentCommand Class Reference	31
3.14.1	Member Function Documentation	32
3.14.1.1	execute()	32
3.14.1.2	getName()	33
3.15	air.AbstractDocumentCommandWrapper.UndoAnnotationDocumentCommand Class Reference	33
3.15.1	Member Function Documentation	34
3.15.1.1	execute()	34
3.15.1.2	getName()	35
Index		37

Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

air.AbstractDocumentCommandWrapper.AbstractDocumentCommand	5
air.AbstractDocumentCommandWrapper.RedoAnnotationDocumentCommand	25
air.AbstractDocumentCommandWrapper.UndoAnnotationDocumentCommand	33
air.DocumentCommandWrapper.SaveDocumentCommand	29
air.DocumentCommandWrapper.SaveTextDocumentCommand	31
AbstractDocumentCommand	
air.DocumentCommandWrapper.AddBoxAnnotationDocumentCommand	10
air.DocumentCommandWrapper.AddCircleAnnotationDocumentCommand	12
air.DocumentCommandWrapper.AddTextAnnotationDocumentCommand	14
air.DocumentCommandWrapper.DeleteAnnotationDocumentCommand	17
air.DocumentCommandWrapper.MoveAnnotationDocumentCommand	23
air.DocumentCommandWrapper.ReplaceAnnotationDocumentCommand	27
air.AbstractDocumentCommandWrapper	8
air.DocumentCommandWrapper	19
air.AIRMain	16
air.AbstractDocumentCommandWrapper.makeCommand	22

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

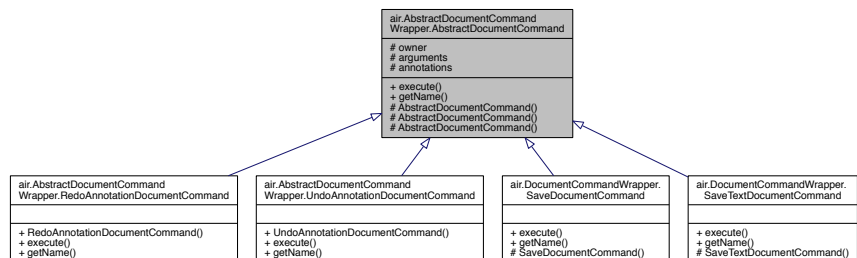
air.AbstractDocumentCommandWrapper.AbstractDocumentCommand	5
air.AbstractDocumentCommandWrapper	8
air.DocumentCommandWrapper.AddBoxAnnotationDocumentCommand	10
air.DocumentCommandWrapper.AddCircleAnnotationDocumentCommand	12
air.DocumentCommandWrapper.AddTextAnnotationDocumentCommand	14
air.AIRMain	16
air.DocumentCommandWrapper.DeleteAnnotationDocumentCommand	17
air.DocumentCommandWrapper	19
air.AbstractDocumentCommandWrapper.makeCommand	22
air.DocumentCommandWrapper.MoveAnnotationDocumentCommand	23
air.AbstractDocumentCommandWrapper.RedoAnnotationDocumentCommand	25
air.DocumentCommandWrapper.ReplaceAnnotationDocumentCommand	27
air.DocumentCommandWrapper.SaveDocumentCommand	29
air.DocumentCommandWrapper.SaveTextDocumentCommand	31
air.AbstractDocumentCommandWrapper.UndoAnnotationDocumentCommand	33

Chapter 3

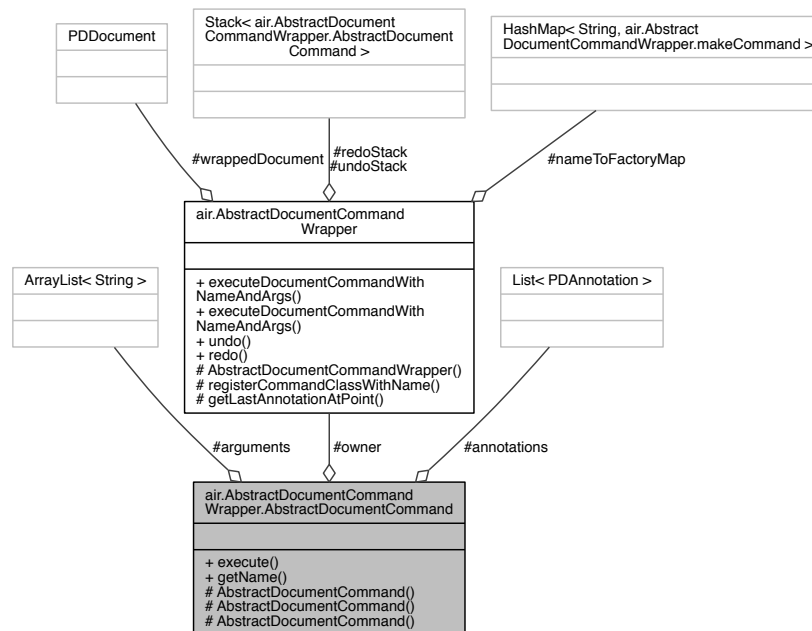
Class Documentation

3.1 air.AbstractDocumentCommandWrapper.AbstractDocumentCommand Class Reference

Inheritance diagram for air.AbstractDocumentCommandWrapper.AbstractDocumentCommand:



Collaboration diagram for `air.AbstractDocumentCommandWrapper.AbstractDocumentCommand`:



Public Member Functions

- abstract [AbstractDocumentCommand](#) `execute` ()
- abstract `String` `getName` ()

Protected Member Functions

- **AbstractDocumentCommand** ([AbstractDocumentCommandWrapper](#) anOwner, `ArrayList< String >` args)
- **AbstractDocumentCommand** ([AbstractDocumentCommandWrapper](#) anOwner, `List< PDAnnotation >` someAnnotations)
- **AbstractDocumentCommand** ([AbstractDocumentCommandWrapper](#) anOwner, `List< PDAnnotation >` someAnnotations, `ArrayList< String >` args)

Protected Attributes

- final [AbstractDocumentCommandWrapper](#) **owner**
- final `ArrayList< String >` **arguments**
- `List< PDAnnotation >` **annotations**

3.1.1 Member Function Documentation

3.1.1.1 **abstract AbstractDocumentCommand** air.AbstractDocumentCommandWrapper.AbstractDocumentCommand.execute () [abstract]

Returns

If [execute\(\)](#) succeeds, a Command that is the reciprocal of the receiver is returned. Otherwise, null is returned.

3.1.1.2 **abstract String** air.AbstractDocumentCommandWrapper.AbstractDocumentCommand.getName () [abstract]

Returns

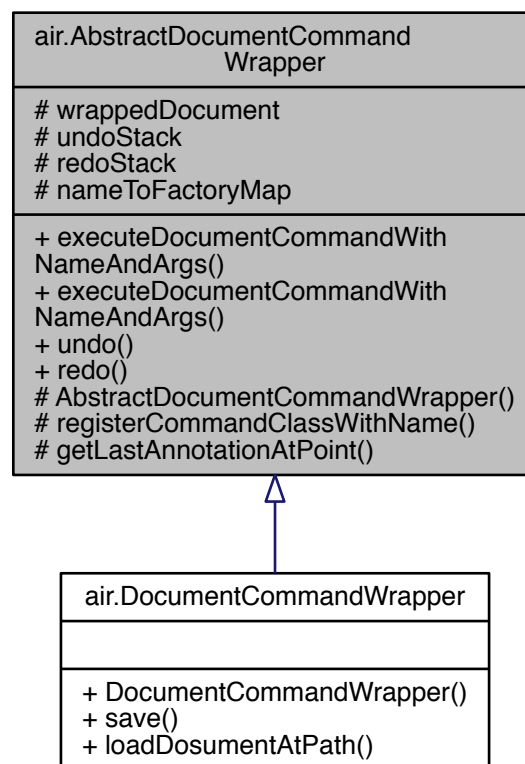
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

The documentation for this class was generated from the following file:

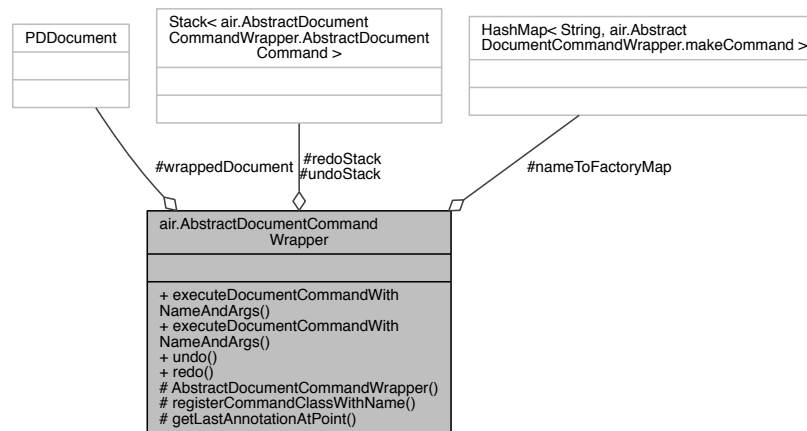
- src/air/AbstractDocumentCommandWrapper.java

3.2 air.AbstractDocumentCommandWrapper Class Reference

Inheritance diagram for air.AbstractDocumentCommandWrapper:



Collaboration diagram for air.AbstractDocumentCommandWrapper:



Classes

- class [AbstractDocumentCommand](#)
- interface [makeCommand](#)
- class [RedoAnnotationDocumentCommand](#)
- class [UndoAnnotationDocumentCommand](#)

Public Member Functions

- boolean **executeDocumentCommandWithNameAndArgs** (String aName, ArrayList< String > args)
- boolean **executeDocumentCommandWithNameAndArgs** (String aName, String[] args)
- boolean **undo** ()
- boolean **redo** ()

Protected Member Functions

- **AbstractDocumentCommandWrapper** (PDDocument aDocument)
- void **registerCommandClassWithName** ([makeCommand](#) command, String aName)
- PDAnnotation **getLastAnnotationAtPoint** (List< PDAnnotation > annotations, float x, float y)

Protected Attributes

- final PDDocument **wrappedDocument**
- final Stack< [AbstractDocumentCommand](#) > **undoStack**
- final Stack< [AbstractDocumentCommand](#) > **redoStack**
- final HashMap< String, [makeCommand](#) > **nameToFactoryMap**

3.2.1 Detailed Description

Author

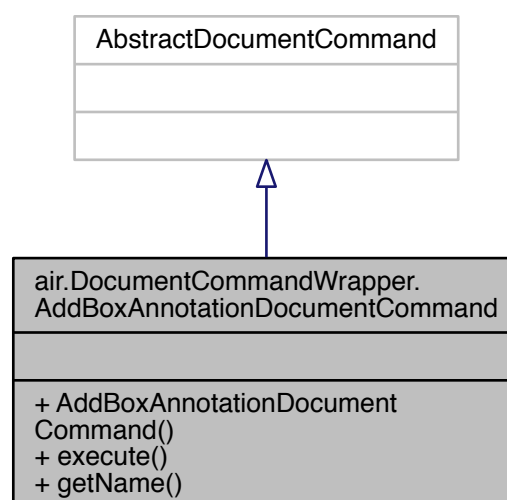
erik

The documentation for this class was generated from the following file:

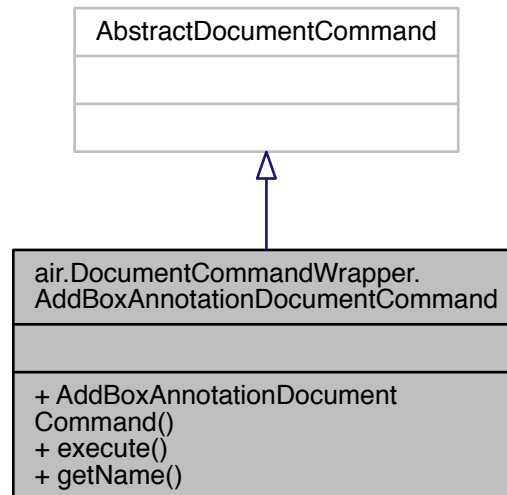
- `src/air/AbstractDocumentCommandWrapper.java`

3.3 `air.DocumentCommandWrapper.AddBoxAnnotationDocumentCommand` Class Reference

Inheritance diagram for `air.DocumentCommandWrapper.AddBoxAnnotationDocumentCommand`:



Collaboration diagram for air.DocumentCommandWrapper.AddBoxAnnotationDocumentCommand:



Public Member Functions

- **AddBoxAnnotationDocumentCommand** ([AbstractDocumentCommandWrapper](#) anOwner, `ArrayList< String >` args)
- `AbstractDocumentCommand` [execute](#) ()
- `String` [getName](#) ()

3.3.1 Member Function Documentation

3.3.1.1 `AbstractDocumentCommand` `air.DocumentCommandWrapper.AddBoxAnnotationDocumentCommand.execute ()`

Returns

If [execute\(\)](#) succeeds, a `Command` that is the reciprocal of the receiver is returned. Otherwise, `null` is returned.

3.3.1.2 `String` `air.DocumentCommandWrapper.AddBoxAnnotationDocumentCommand.getName ()`

Returns

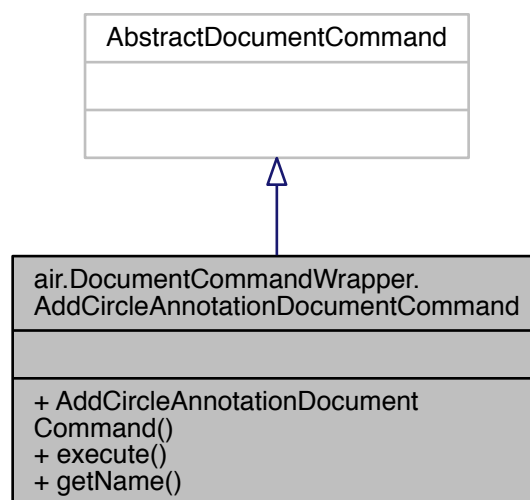
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

The documentation for this class was generated from the following file:

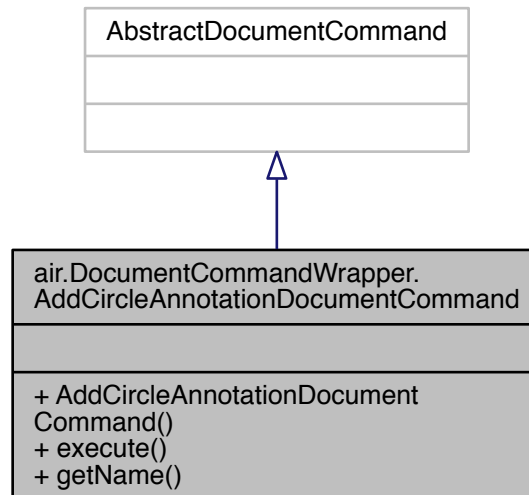
- `src/air/DocumentCommandWrapper.java`

3.4 air.DocumentCommandWrapper.AddCircleAnnotationDocumentCommand Class Reference

Inheritance diagram for air.DocumentCommandWrapper.AddCircleAnnotationDocumentCommand:



Collaboration diagram for air.DocumentCommandWrapper.AddCircleAnnotationDocumentCommand:



Public Member Functions

- **AddCircleAnnotationDocumentCommand** ([AbstractDocumentCommandWrapper](#) anOwner, `ArrayList< String > args`)
- `AbstractDocumentCommand` [execute](#) ()
- `String` [getName](#) ()

3.4.1 Member Function Documentation

3.4.1.1 `AbstractDocumentCommand` `air.DocumentCommandWrapper.AddCircleAnnotationDocumentCommand.execute ()`

Returns

If [execute\(\)](#) succeeds, a `Command` that is the reciprocal of the receiver is returned. Otherwise, `null` is returned.

3.4.1.2 `String` `air.DocumentCommandWrapper.AddCircleAnnotationDocumentCommand.getName ()`

Returns

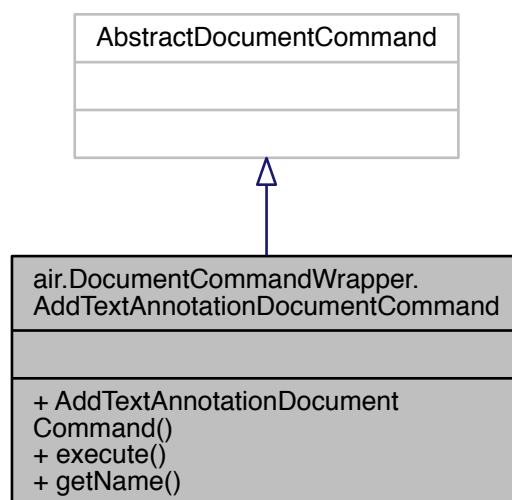
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

The documentation for this class was generated from the following file:

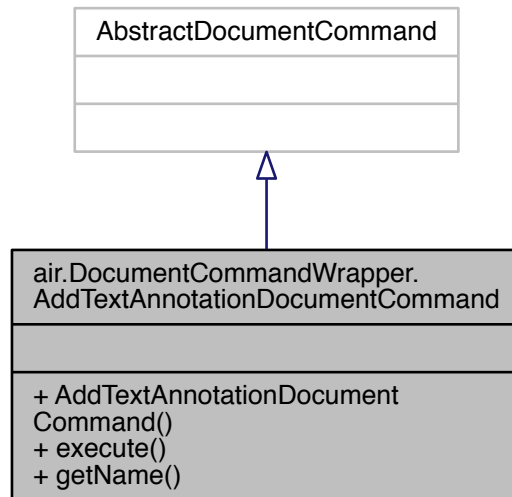
- `src/air/DocumentCommandWrapper.java`

3.5 air.DocumentCommandWrapper.AddTextAnnotationDocumentCommand Class Reference

Inheritance diagram for air.DocumentCommandWrapper.AddTextAnnotationDocumentCommand:



Collaboration diagram for air.DocumentCommandWrapper.AddTextAnnotationDocumentCommand:



Public Member Functions

- **AddTextAnnotationDocumentCommand** ([AbstractDocumentCommandWrapper](#) anOwner, `ArrayList< String >` args)
- `AbstractDocumentCommand` [execute](#) ()
- `String` [getName](#) ()

3.5.1 Member Function Documentation

3.5.1.1 `AbstractDocumentCommand` `air.DocumentCommandWrapper.AddTextAnnotationDocumentCommand.execute ()`

Returns

If [execute\(\)](#) succeeds, a `Command` that is the reciprocal of the receiver is returned. Otherwise, `null` is returned.

3.5.1.2 `String` `air.DocumentCommandWrapper.AddTextAnnotationDocumentCommand.getName ()`

Returns

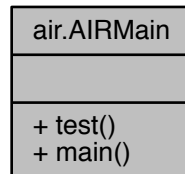
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

The documentation for this class was generated from the following file:

- `src/air/DocumentCommandWrapper.java`

3.6 air.AIRMain Class Reference

Collaboration diagram for air.AIRMain:



Static Public Member Functions

- static void `test` (String[] args) throws IOException
- static void `main` (String[] args) throws IOException

3.6.1 Detailed Description

Author

erik

3.6.2 Member Function Documentation

3.6.2.1 static void `air.AIRMain.test` (String[] args) throws IOException [static]

Parameters

<i>args</i>	the command line arguments
-------------	----------------------------

Exceptions

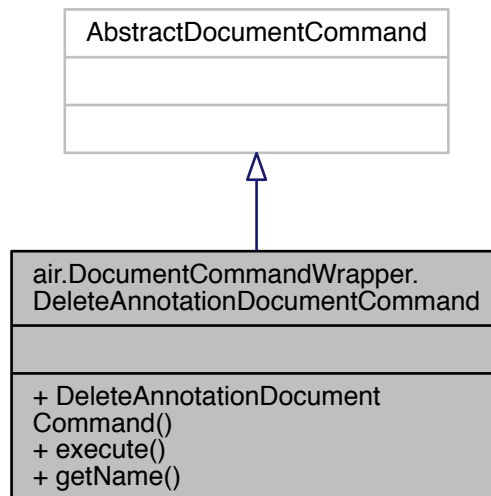
<i>java.io.IOException</i>	
----------------------------	--

The documentation for this class was generated from the following file:

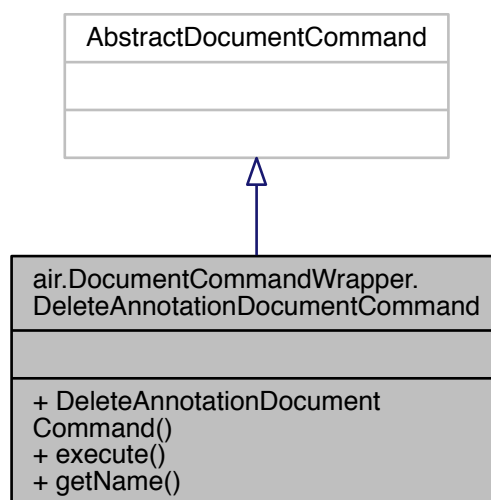
- `src/air/AIRMain.java`

3.7 air.DocumentCommandWrapper.DeleteAnnotationDocumentCommand Class Reference

Inheritance diagram for air.DocumentCommandWrapper.DeleteAnnotationDocumentCommand:



Collaboration diagram for air.DocumentCommandWrapper.DeleteAnnotationDocumentCommand:



Public Member Functions

- **DeleteAnnotationDocumentCommand** ([AbstractDocumentCommandWrapper](#) anOwner, ArrayList< String > args)
- AbstractDocumentCommand [execute](#) ()
- String [getName](#) ()

3.7.1 Member Function Documentation

3.7.1.1 AbstractDocumentCommand air.DocumentCommandWrapper.DeleteAnnotationDocumentCommand.execute ()

Returns

If [execute\(\)](#) succeeds, a Command that is the reciprocal of the receiver is returned. Otherwise, null is returned.

3.7.1.2 String air.DocumentCommandWrapper.DeleteAnnotationDocumentCommand.getName ()

Returns

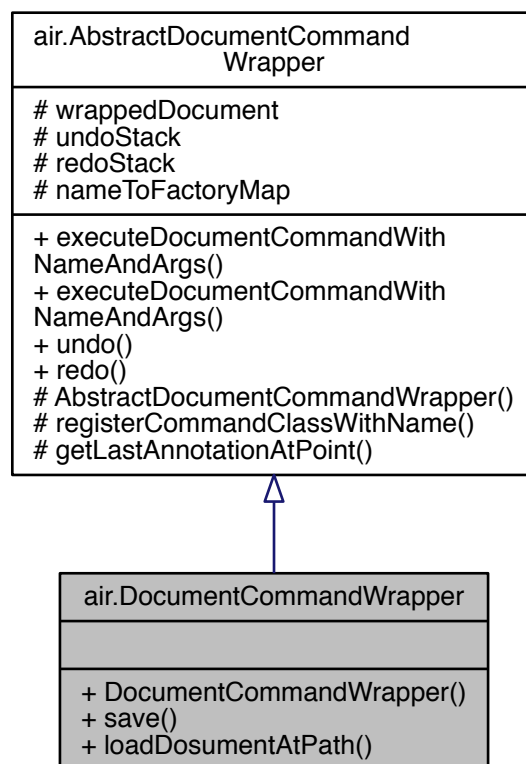
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

The documentation for this class was generated from the following file:

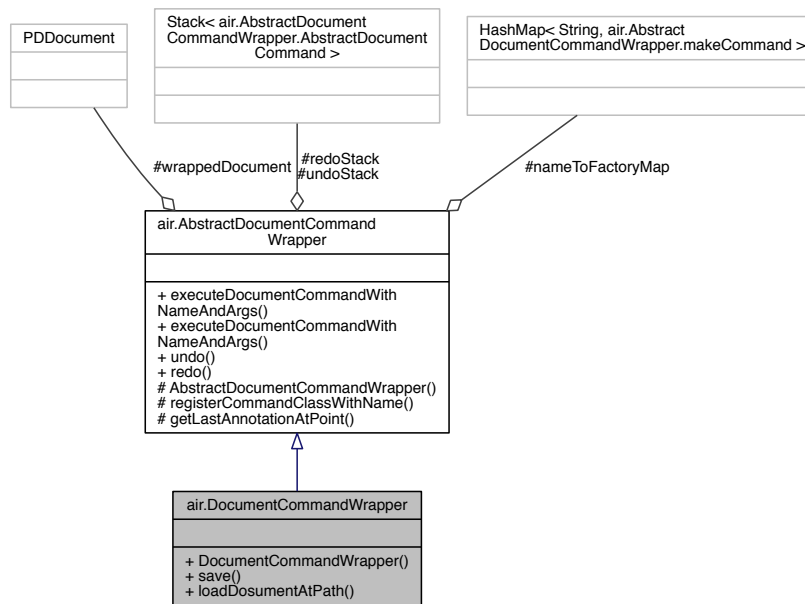
- src/air/DocumentCommandWrapper.java

3.8 air.DocumentCommandWrapper Class Reference

Inheritance diagram for air.DocumentCommandWrapper:



Collaboration diagram for `air.DocumentCommandWrapper`:



Classes

- class [AddBoxAnnotationDocumentCommand](#)
- class [AddCircleAnnotationDocumentCommand](#)
- class [AddTextAnnotationDocumentCommand](#)
- class [DeleteAnnotationDocumentCommand](#)
- class [MoveAnnotationDocumentCommand](#)
- class [ReplaceAnnotationDocumentCommand](#)
- class [SaveDocumentCommand](#)
- class [SaveTextDocumentCommand](#)

Public Member Functions

- **DocumentCommandWrapper** (`PDDocument aDocument`, `String aPath`)
- void [save](#) (`String aPath`) throws `IOException`
Save the PDF information encapsulated by the receiver to a file at the specified path.

Static Public Member Functions

- static [DocumentCommandWrapper loadDocumentAtPath](#) (`String aPath`) throws `IOException`
Reads information from the valid PDF file if any at `aPath` and returns a [DocumentCommandWrapper](#) instance ready to add or delete annotations to the loaded information.

Additional Inherited Members

3.8.1 Detailed Description

Author

erik

3.8.2 Member Function Documentation

3.8.2.1 static DocumentCommandWrapper air.DocumentCommandWrapper.loadDocumentAtPath (String *aPath*) throws IOException [static]

Reads information from the valid PDF file if any at *aPath* and returns a [DocumentCommandWrapper](#) instance ready to add or delete annotations to the loaded information.

Trace: REQ-041000, REQ-041060

Parameters

<i>aPath</i>	A valid file system path to a valid PDF document.
--------------	---

Returns

An instance of [DocumentCommandWrapper](#) configured to apply Commands to the document at *aPath*.

Exceptions

<i>IOException</i>	
--------------------	--

3.8.2.2 void air.DocumentCommandWrapper.save (String *aPath*) throws IOException

Save the PDF information encapsulated by the receiver to a file at the specified path.

The saved information contains the same annotation and non-annotation information as the file (if any) from which information was loaded to initialize the receiver with the following exceptions: - Annotations added via the receiver since information was loaded are saved in the specified file. - Annotations deleted via the receiver since information was loaded are not saved in the specified file. - Annotations whose attributes have been changed via the receiver since information was loaded are save with changed attributes in the specified file. Trace: REQ-041000, REQ-041050

Parameters

<i>aPath</i>	A valid complete file system path including the name of the document to save. The path must be writable in a file system with sufficient available storage capacity to store the information encapsulated by the receiver.
--------------	--

Exceptions

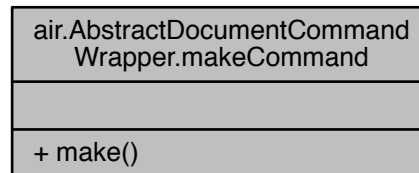
<code>java.io.IOException</code>	
----------------------------------	--

The documentation for this class was generated from the following file:

- `src/air/DocumentCommandWrapper.java`

3.9 `air.AbstractDocumentCommandWrapper.makeCommand` Interface Reference

Collaboration diagram for `air.AbstractDocumentCommandWrapper.makeCommand`:



Public Member Functions

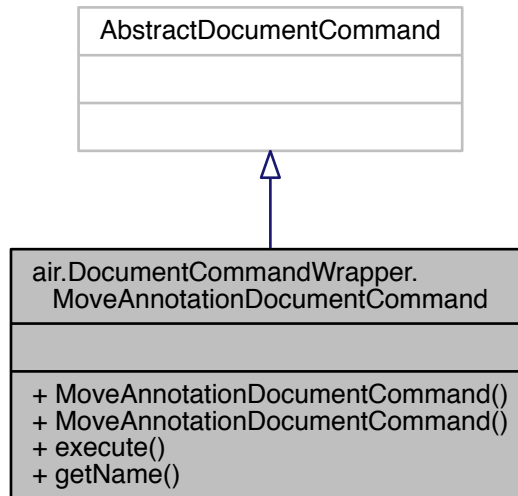
- `AbstractDocumentCommand` **make** (`AbstractDocumentCommandWrapper` anOwner, `ArrayList< String >` args)

The documentation for this interface was generated from the following file:

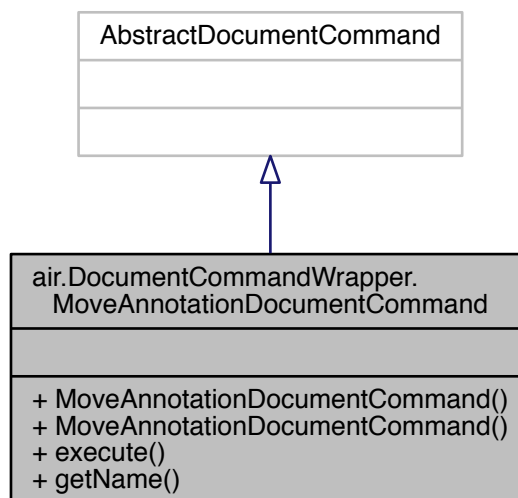
- `src/air/AbstractDocumentCommandWrapper.java`

3.10 air.DocumentCommandWrapper.MoveAnnotationDocumentCommand Class Reference

Inheritance diagram for air.DocumentCommandWrapper.MoveAnnotationDocumentCommand:



Collaboration diagram for air.DocumentCommandWrapper.MoveAnnotationDocumentCommand:



Public Member Functions

- **MoveAnnotationDocumentCommand** ([AbstractDocumentCommandWrapper](#) anOwner, ArrayList< String > args)
- **MoveAnnotationDocumentCommand** ([AbstractDocumentCommandWrapper](#) anOwner, List< PDAnnotation > annotations, ArrayList< String > args)
- AbstractDocumentCommand [execute](#) ()
- String [getName](#) ()

3.10.1 Member Function Documentation

3.10.1.1 AbstractDocumentCommand air.DocumentCommandWrapper.MoveAnnotationDocumentCommand.execute ()

Returns

If [execute\(\)](#) succeeds, a Command that is the reciprocal of the receiver is returned. Otherwise, null is returned.

3.10.1.2 String air.DocumentCommandWrapper.MoveAnnotationDocumentCommand.getName ()

Returns

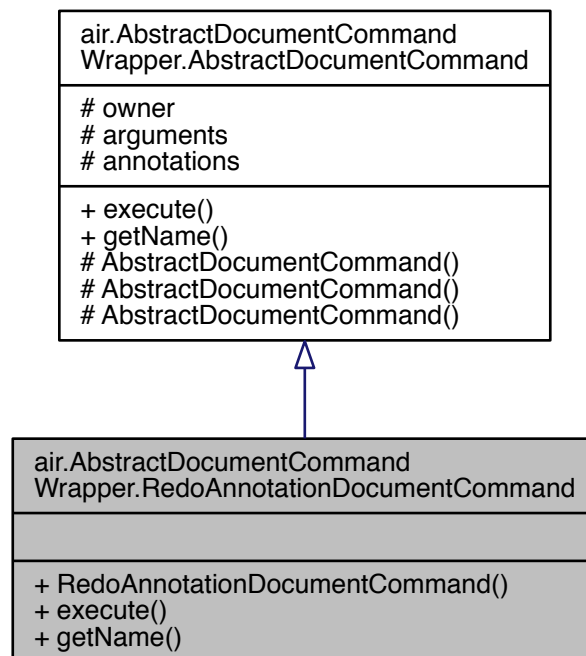
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

The documentation for this class was generated from the following file:

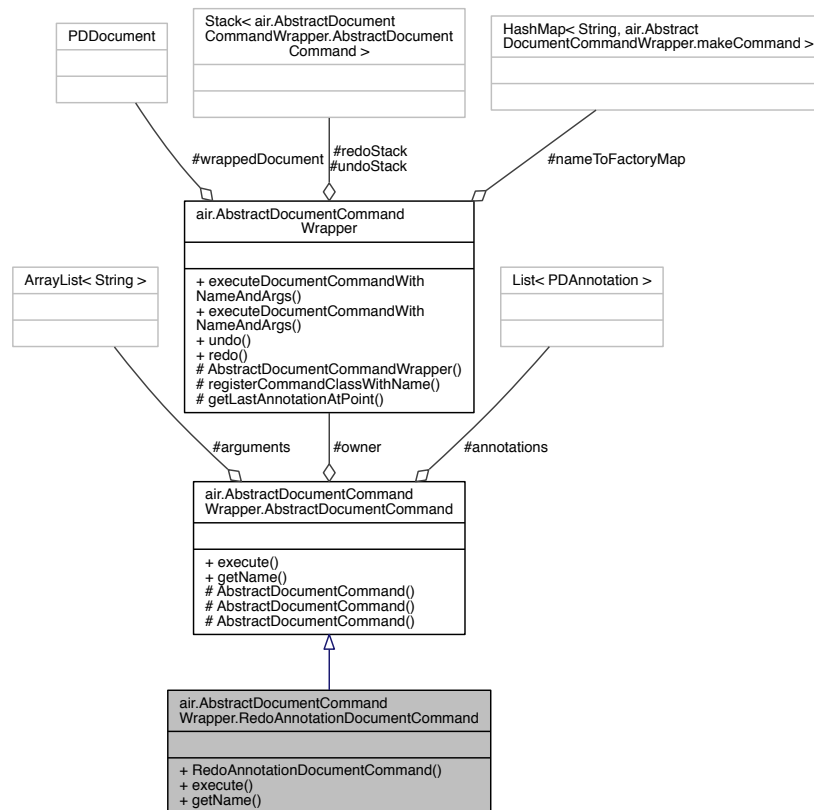
- src/air/DocumentCommandWrapper.java

3.11 air.AbstractDocumentCommandWrapper.RedoAnnotationDocumentCommand Class Reference

Inheritance diagram for air.AbstractDocumentCommandWrapper.RedoAnnotationDocumentCommand:



Collaboration diagram for `air.AbstractDocumentCommandWrapper.RedoAnnotationDocumentCommand`:



Public Member Functions

- **RedoAnnotationDocumentCommand** ([AbstractDocumentCommandWrapper](#) anOwner, `ArrayList< String >` args)
- [AbstractDocumentCommand](#) `execute` ()
- `String` `getName` ()

Additional Inherited Members

3.11.1 Member Function Documentation

3.11.1.1 `AbstractDocumentCommand` `air.AbstractDocumentCommandWrapper.RedoAnnotationDocumentCommand.execute` ()

Returns

If `execute()` succeeds, a Command that is the reciprocal of the receiver is returned. Otherwise, null is returned.

3.11.1.2 String air.AbstractDocumentCommandWrapper.RedoAnnotationDocumentCommand.getName ()

Returns

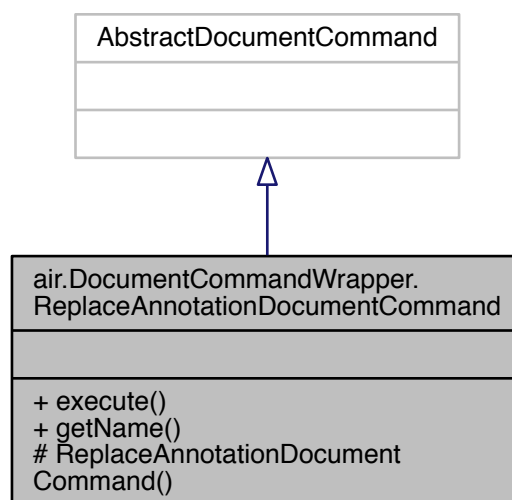
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

The documentation for this class was generated from the following file:

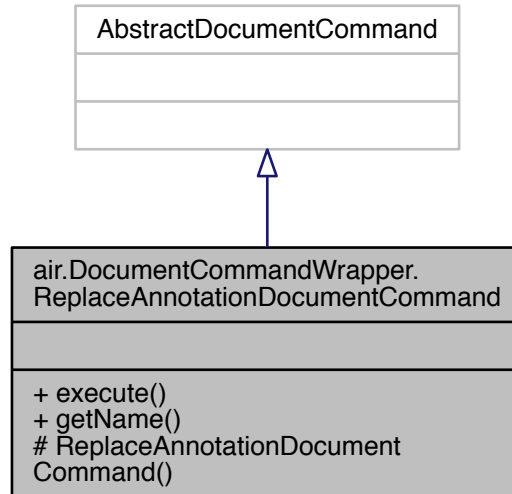
- src/air/AbstractDocumentCommandWrapper.java

3.12 air.DocumentCommandWrapper.ReplaceAnnotationDocumentCommand Class Reference

Inheritance diagram for air.DocumentCommandWrapper.ReplaceAnnotationDocumentCommand:



Collaboration diagram for `air.DocumentCommandWrapper.ReplaceAnnotationDocumentCommand`:



Public Member Functions

- `AbstractDocumentCommand` `execute ()`
- `String` `getName ()`

Protected Member Functions

- **`ReplaceAnnotationDocumentCommand`** (`AbstractDocumentCommandWrapper` anOwner, `List< PDAnnotation >` someAnnotations, `ArrayList< String >` args)

3.12.1 Member Function Documentation

3.12.1.1 `AbstractDocumentCommand` `air.DocumentCommandWrapper.ReplaceAnnotationDocumentCommand.execute ()`

Returns

If `execute()` succeeds, a `Command` that is the reciprocal of the receiver is returned. Otherwise, `null` is returned.

3.12.1.2 String air.DocumentCommandWrapper.ReplaceAnnotationDocumentCommand.getName ()

Returns

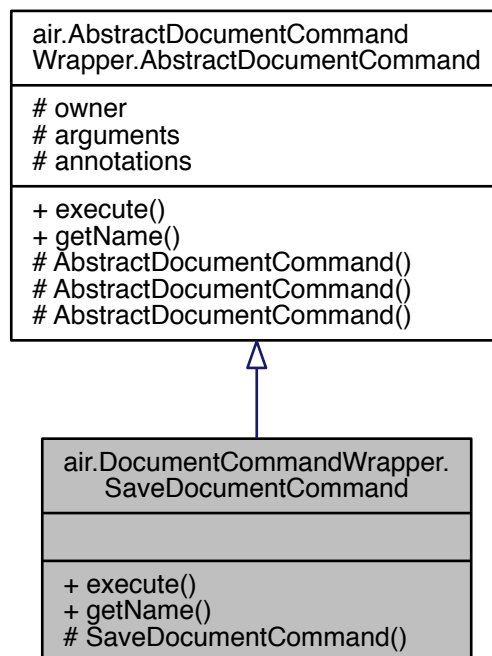
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

The documentation for this class was generated from the following file:

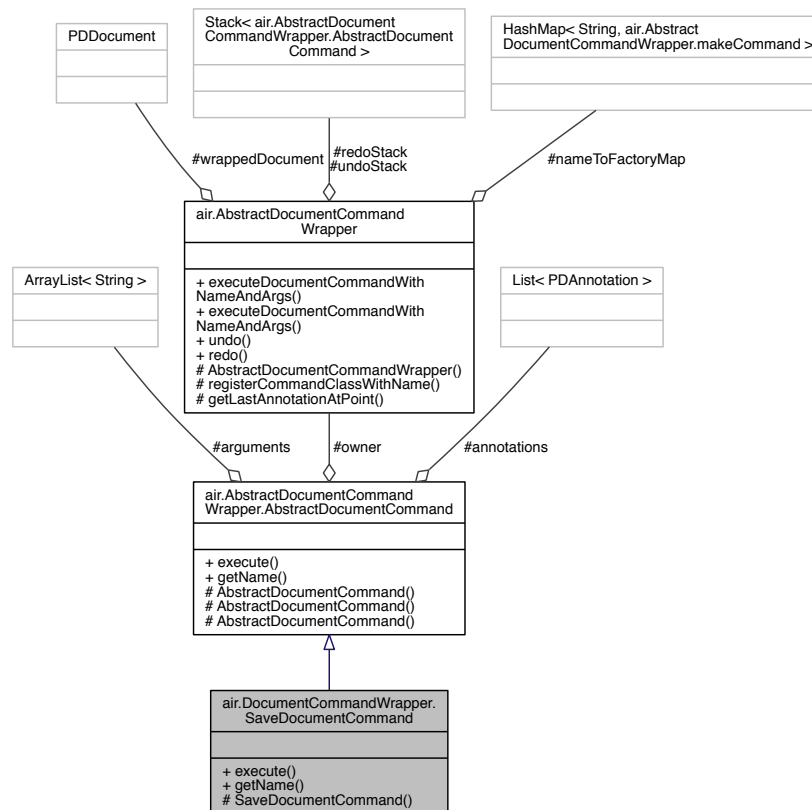
- src/air/DocumentCommandWrapper.java

3.13 air.DocumentCommandWrapper.SaveDocumentCommand Class Reference

Inheritance diagram for air.DocumentCommandWrapper.SaveDocumentCommand:



Collaboration diagram for `air.DocumentCommandWrapper.SaveDocumentCommand`:



Public Member Functions

- [AbstractDocumentCommand execute \(\)](#)
- String [getName \(\)](#)

Protected Member Functions

- **SaveDocumentCommand** ([AbstractDocumentCommandWrapper](#) anOwner, ArrayList< String > args)

Additional Inherited Members

3.13.1 Member Function Documentation

3.13.1.1 AbstractDocumentCommand `air.DocumentCommandWrapper.SaveDocumentCommand.execute ()`

Returns

If [execute\(\)](#) succeeds, a Command that is the reciprocal of the receiver is returned. Otherwise, null is returned.

3.13.1.2 String air.DocumentCommandWrapper.SaveDocumentCommand.getName ()

Returns

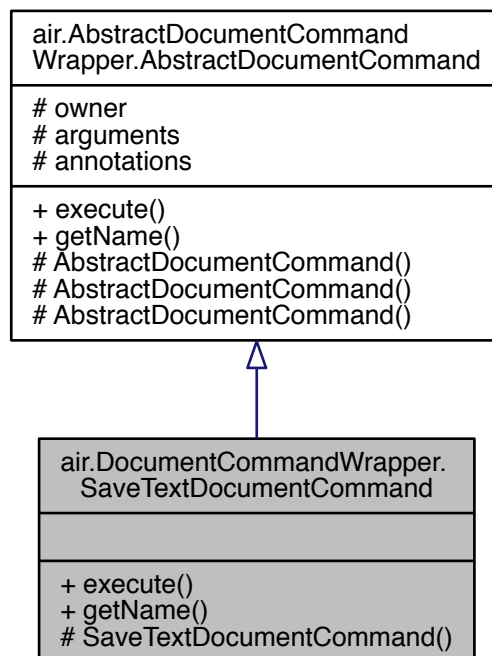
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

The documentation for this class was generated from the following file:

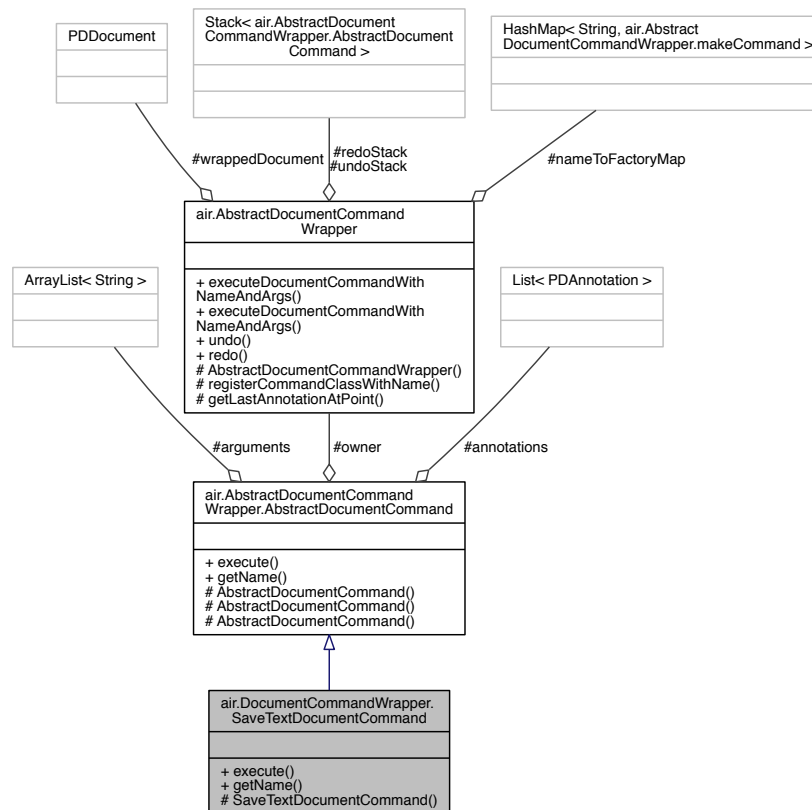
- src/air/DocumentCommandWrapper.java

3.14 air.DocumentCommandWrapper.SaveTextDocumentCommand Class Reference

Inheritance diagram for air.DocumentCommandWrapper.SaveTextDocumentCommand:



Collaboration diagram for `air.DocumentCommandWrapper.SaveTextDocumentCommand`:



Public Member Functions

- [AbstractDocumentCommand execute \(\)](#)
- [String getName \(\)](#)

Protected Member Functions

- **SaveTextDocumentCommand** ([AbstractDocumentCommandWrapper](#) anOwner, `ArrayList< String > args`)

Additional Inherited Members

3.14.1 Member Function Documentation

3.14.1.1 AbstractDocumentCommand `air.DocumentCommandWrapper.SaveTextDocumentCommand.execute ()`

Returns

If `execute()` succeeds, a Command that is the reciprocal of the receiver is returned. Otherwise, null is returned.

3.14.1.2 String air.DocumentCommandWrapper.SaveTextDocumentCommand.getName ()

Returns

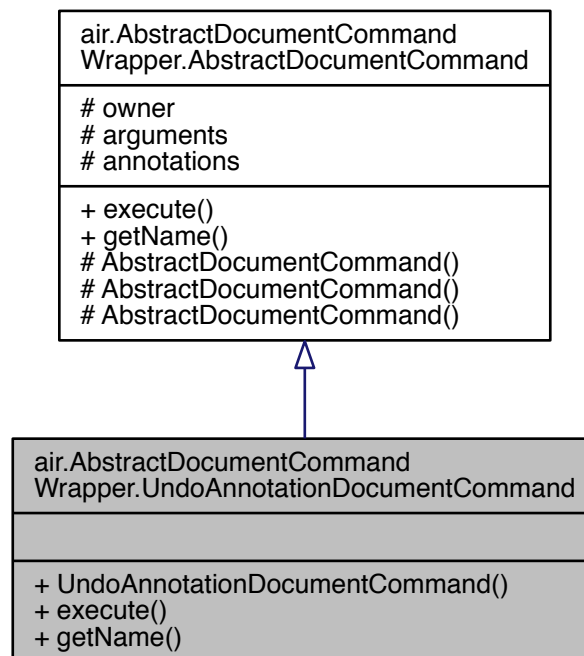
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

The documentation for this class was generated from the following file:

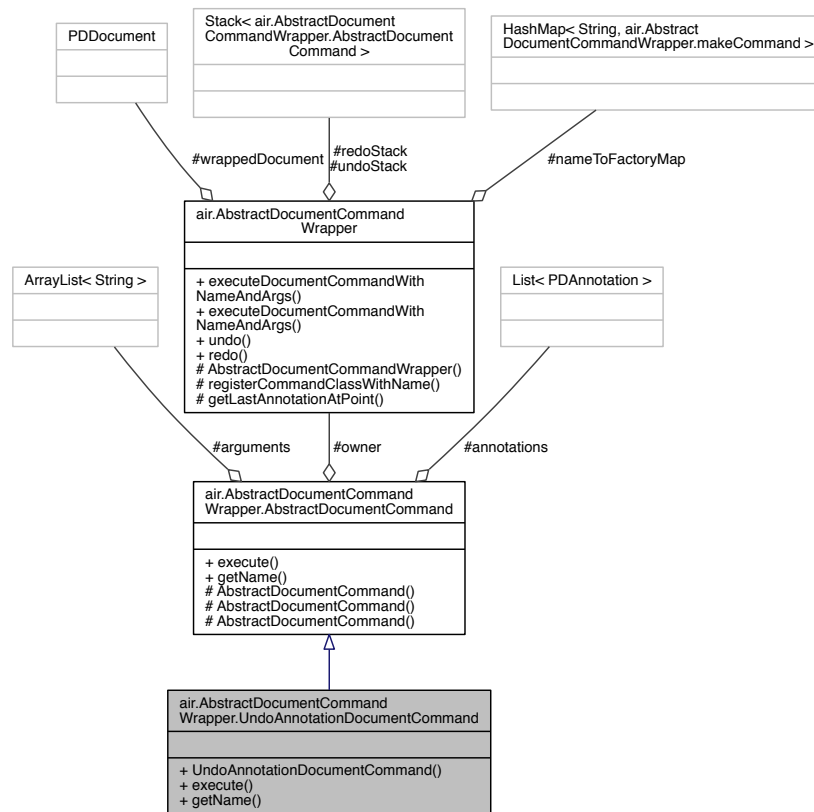
- src/air/DocumentCommandWrapper.java

3.15 air.AbstractDocumentCommandWrapper.UndoAnnotationDocumentCommand Class Reference

Inheritance diagram for air.AbstractDocumentCommandWrapper.UndoAnnotationDocumentCommand:



Collaboration diagram for `air.AbstractDocumentCommandWrapper.UndoAnnotationDocumentCommand`:



Public Member Functions

- **UndoAnnotationDocumentCommand** ([AbstractDocumentCommandWrapper](#) anOwner, `ArrayList< String >` args)
- [AbstractDocumentCommand](#) `execute` ()
- `String` `getName` ()

Additional Inherited Members

3.15.1 Member Function Documentation

3.15.1.1 `AbstractDocumentCommand` `air.AbstractDocumentCommandWrapper.UndoAnnotationDocumentCommand.execute` ()

Returns

If `execute()` succeeds, a Command that is the reciprocal of the receiver is returned. Otherwise, null is returned.

3.15.1.2 String air.AbstractDocumentCommandWrapper.UndoAnnotationDocumentCommand.getName ()

Returns

The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

The documentation for this class was generated from the following file:

- src/air/AbstractDocumentCommandWrapper.java

Index

air.AIRMain, 16
air.AbstractDocumentCommandWrapper, 8
air.AbstractDocumentCommandWrapper.Abstract↔
 DocumentCommand, 5
air.AbstractDocumentCommandWrapper.makeCommand,
 22
air.AbstractDocumentCommandWrapper.RedoAnnotation↔
 DocumentCommand, 25
air.AbstractDocumentCommandWrapper.UndoAnnotation↔
 DocumentCommand, 33
air.DocumentCommandWrapper, 19
air.DocumentCommandWrapper.AddBoxAnnotation↔
 DocumentCommand, 10
air.DocumentCommandWrapper.AddCircleAnnotation↔
 DocumentCommand, 12
air.DocumentCommandWrapper.AddTextAnnotation↔
 DocumentCommand, 14
air.DocumentCommandWrapper.DeleteAnnotation↔
 DocumentCommand, 17
air.DocumentCommandWrapper.MoveAnnotation↔
 DocumentCommand, 23
air.DocumentCommandWrapper.ReplaceAnnotation↔
 DocumentCommand, 27
air.DocumentCommandWrapper.SaveDocumentCommand,
 29
air.DocumentCommandWrapper.SaveTextDocument↔
 Command, 31
air::AIRMain
 test, 16
air::AbstractDocumentCommandWrapper::Abstract↔
 DocumentCommand
 execute, 7
 getName, 7
air::AbstractDocumentCommandWrapper::RedoAnnotation↔
 DocumentCommand
 execute, 26
 getName, 26
air::AbstractDocumentCommandWrapper::UndoAnnotation↔
 DocumentCommand
 execute, 34
 getName, 34
air::DocumentCommandWrapper
 loadDocumentAtPath, 21
 save, 21
air::DocumentCommandWrapper::AddBoxAnnotation↔
 DocumentCommand
 execute, 11
 getName, 11
air::DocumentCommandWrapper::AddCircleAnnotation↔
 DocumentCommand
 execute, 13
 getName, 13
air::DocumentCommandWrapper::AddTextAnnotation↔
 DocumentCommand
 execute, 15
 getName, 15
air::DocumentCommandWrapper::DeleteAnnotation↔
 DocumentCommand
 execute, 18
 getName, 18
air::DocumentCommandWrapper::MoveAnnotation↔
 DocumentCommand
 execute, 24
 getName, 24
air::DocumentCommandWrapper::ReplaceAnnotation↔
 DocumentCommand
 execute, 28
 getName, 28
air::DocumentCommandWrapper::SaveDocument↔
 Command
 execute, 30
 getName, 30
air::DocumentCommandWrapper::SaveTextDocument↔
 Command
 execute, 32
 getName, 32
execute
air::AbstractDocumentCommandWrapper::Abstract↔
 DocumentCommand, 7
air::AbstractDocumentCommandWrapper::Redo↔
 AnnotationDocumentCommand, 26
air::AbstractDocumentCommandWrapper::Undo↔
 AnnotationDocumentCommand, 34
air::DocumentCommandWrapper::AddBoxAnnotation↔
 DocumentCommand, 11
air::DocumentCommandWrapper::AddCircle↔
 AnnotationDocumentCommand, 13
air::DocumentCommandWrapper::AddTextAnnotation↔
 DocumentCommand, 15

- air::DocumentCommandWrapper::DeleteAnnotation↔
DocumentCommand, [18](#)
- air::DocumentCommandWrapper::MoveAnnotation↔
DocumentCommand, [24](#)
- air::DocumentCommandWrapper::ReplaceAnnotation↔
DocumentCommand, [28](#)
- air::DocumentCommandWrapper::SaveDocument↔
Command, [30](#)
- air::DocumentCommandWrapper::SaveText↔
DocumentCommand, [32](#)

getName

- air::AbstractDocumentCommandWrapper::Abstract↔
DocumentCommand, [7](#)
- air::AbstractDocumentCommandWrapper::Redo↔
AnnotationDocumentCommand, [26](#)
- air::AbstractDocumentCommandWrapper::Undo↔
AnnotationDocumentCommand, [34](#)
- air::DocumentCommandWrapper::AddBoxAnnotation↔
DocumentCommand, [11](#)
- air::DocumentCommandWrapper::AddCircle↔
AnnotationDocumentCommand, [13](#)
- air::DocumentCommandWrapper::AddTextAnnotation↔
DocumentCommand, [15](#)
- air::DocumentCommandWrapper::DeleteAnnotation↔
DocumentCommand, [18](#)
- air::DocumentCommandWrapper::MoveAnnotation↔
DocumentCommand, [24](#)
- air::DocumentCommandWrapper::ReplaceAnnotation↔
DocumentCommand, [28](#)
- air::DocumentCommandWrapper::SaveDocument↔
Command, [30](#)
- air::DocumentCommandWrapper::SaveText↔
DocumentCommand, [32](#)

loadDocumentAtPath

- air::DocumentCommandWrapper, [21](#)

save

- air::DocumentCommandWrapper, [21](#)

test

- air::AIRMain, [16](#)