

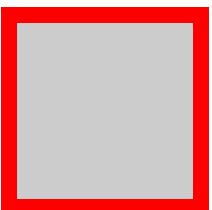
My Project

Generated by Doxygen 1.8.11

You will see this if Undo and Redo

This is some text you will see if redo works.
This is some text.

Hello



I should be at the top if Undo works

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I should be at the bottom if Redo works

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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
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Chapter 2

Class Index

2.1 Class List

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

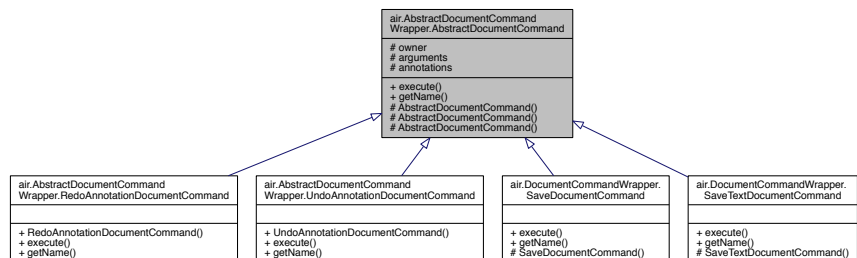
air.AbstractDocumentCommandWrapper.AbstractDocumentCommand	5
air.AbstractDocumentCommandWrapper	8
air.DocumentCommandWrapper.AddBoxAnnotationDocumentCommand	10
air.DocumentCommandWrapper.AddCircleAnnotationDocumentCommand	12
air.DocumentCommandWrapper.AddTextAnnotationDocumentCommand	14
air.AIRMain	16
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

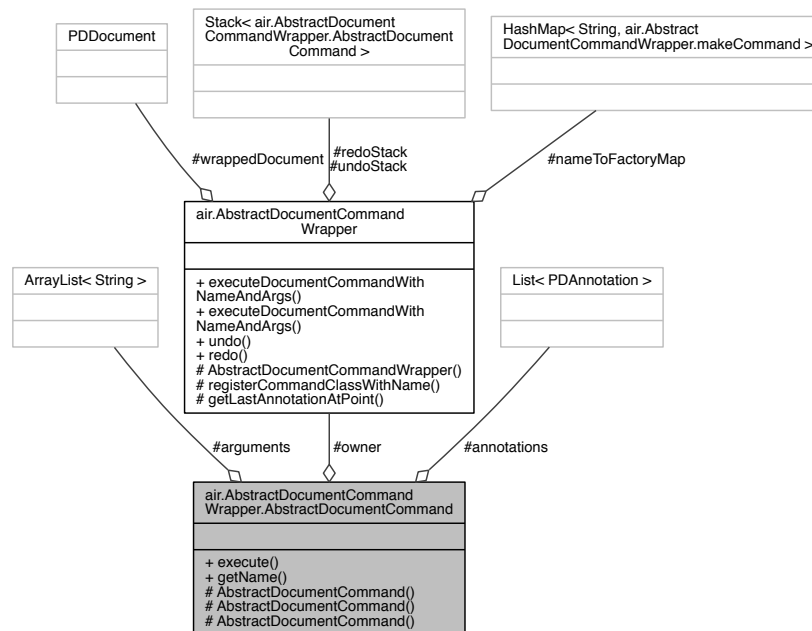
Class Documentation

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

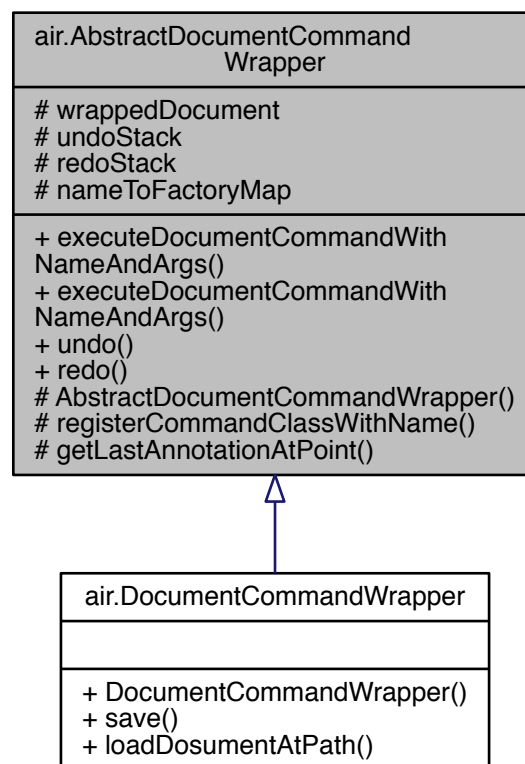
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

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

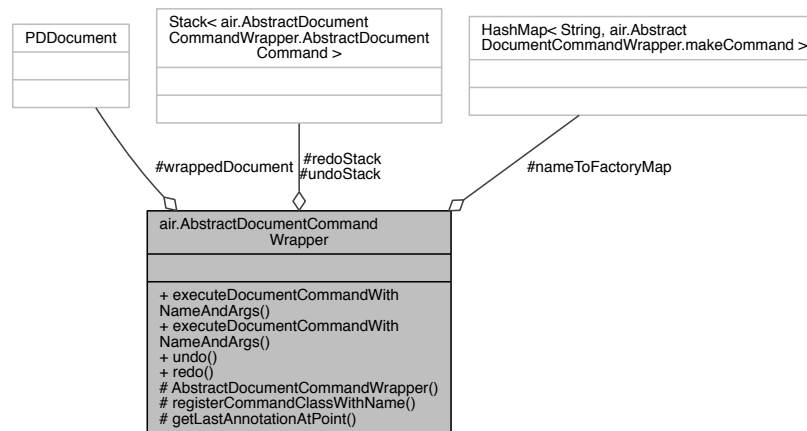
- src/air/AbstractDocumentCommandWrapper.java

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

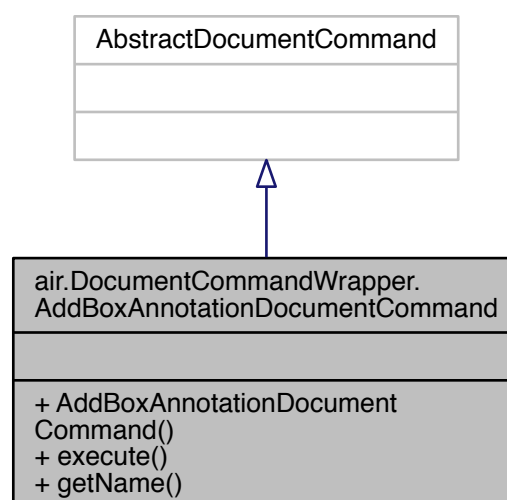
erik

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

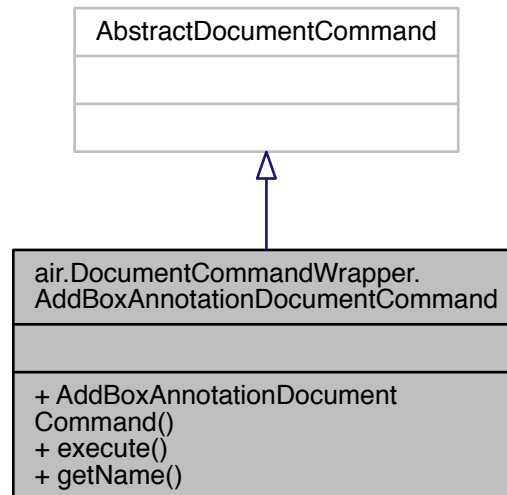
- `src/air/AbstractDocumentCommandWrapper.java`

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

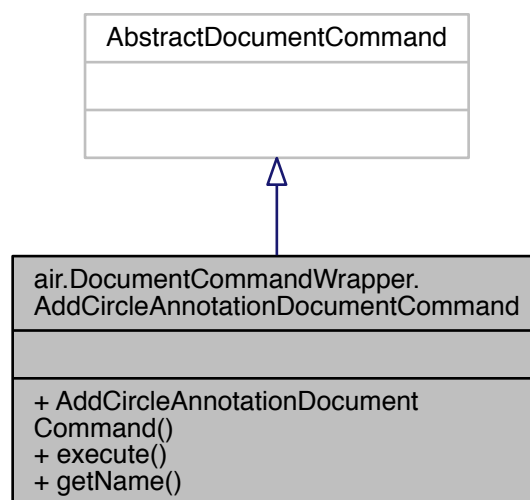
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

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

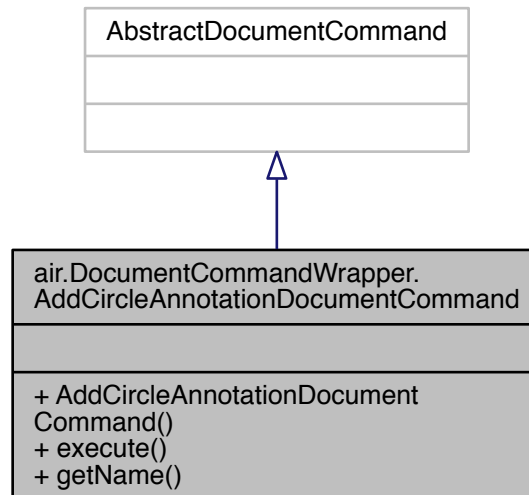
- `src/air/DocumentCommandWrapper.java`

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

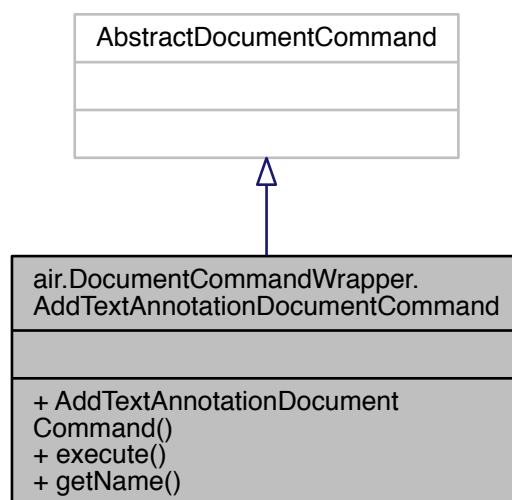
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

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

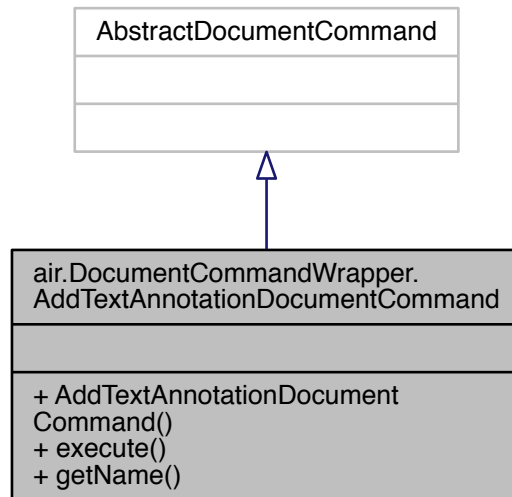
- `src/air/DocumentCommandWrapper.java`

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

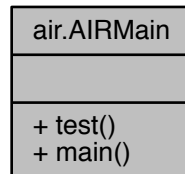
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

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

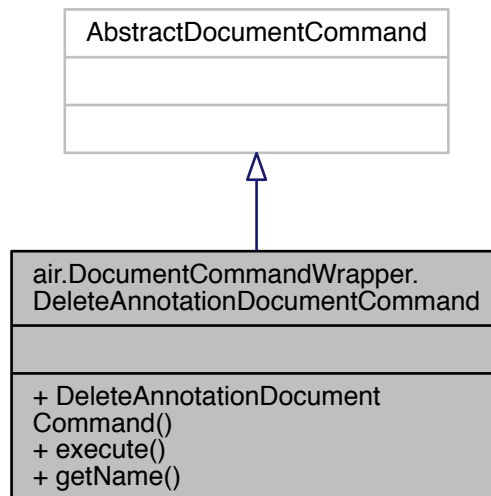
<i>java.io.IOException</i>	
----------------------------	--

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

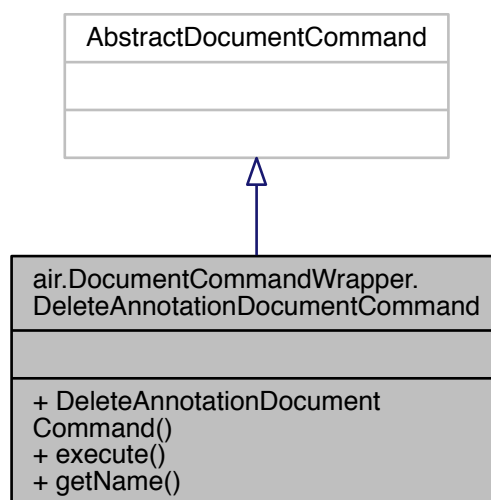
- `src/air/AIRMain.java`

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

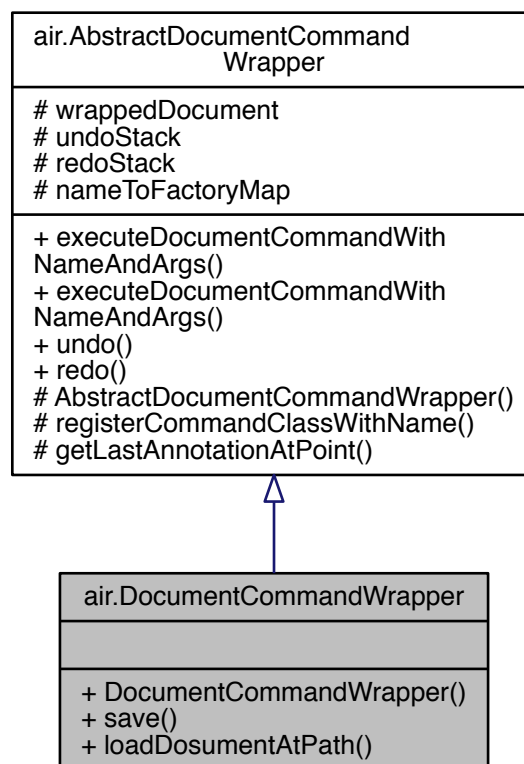
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

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

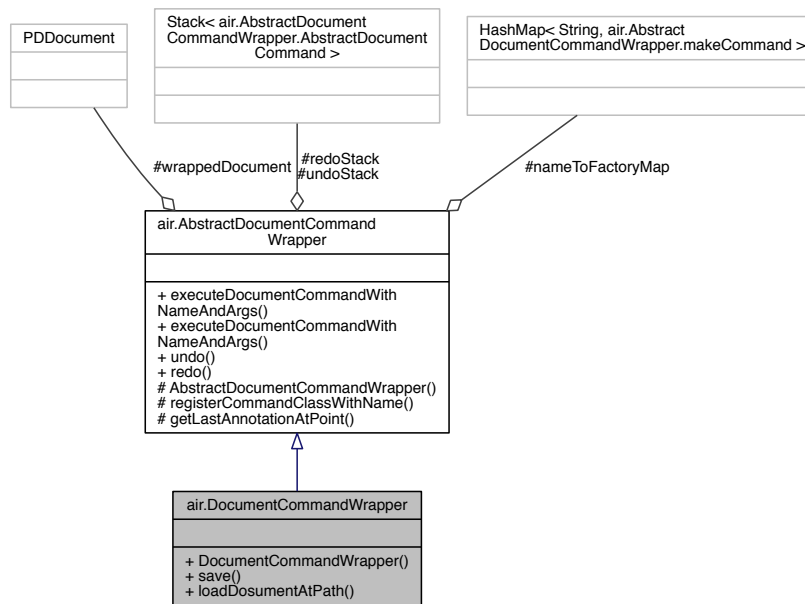
- src/air/DocumentCommandWrapper.java

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

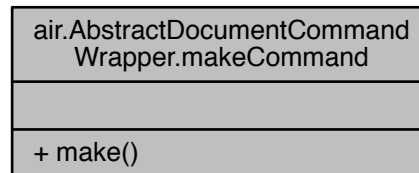
<code>java.io.IOException</code>	
----------------------------------	--

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

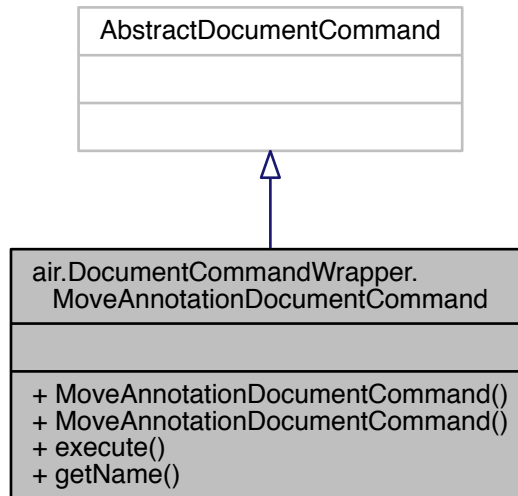
- `AbstractDocumentCommand` **make** (`AbstractDocumentCommandWrapper` anOwner, `ArrayList< String >` args)

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

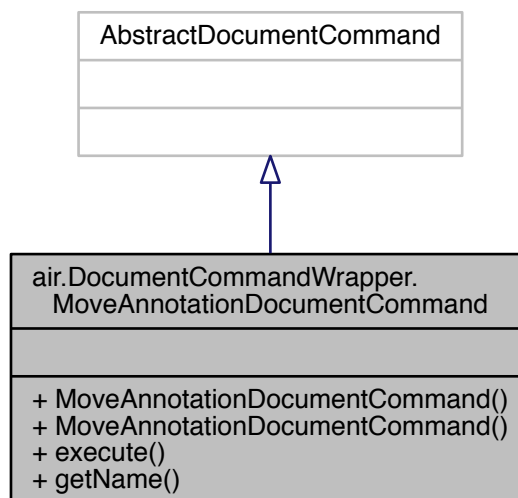
- `src/air/AbstractDocumentCommandWrapper.java`

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

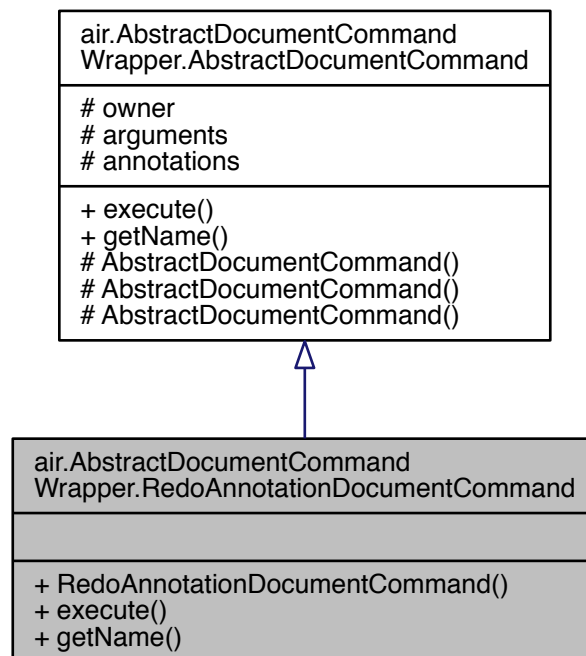
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

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

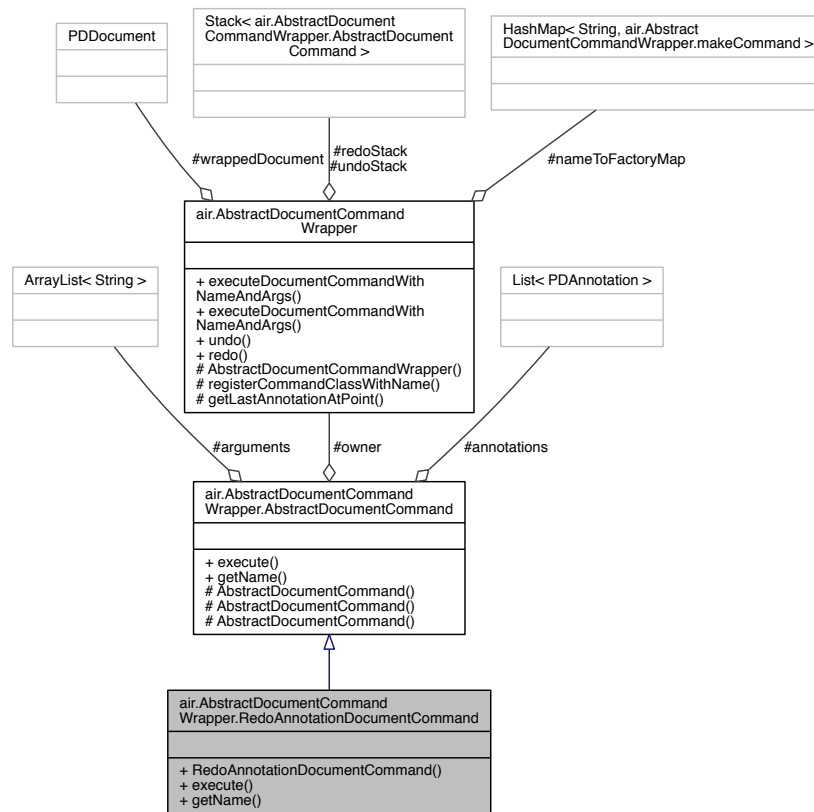
- src/air/DocumentCommandWrapper.java

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

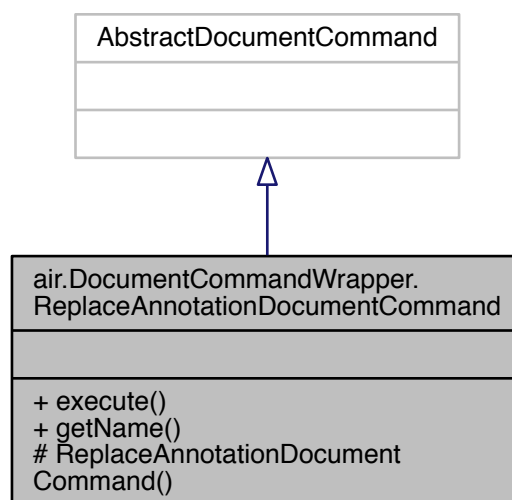
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

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

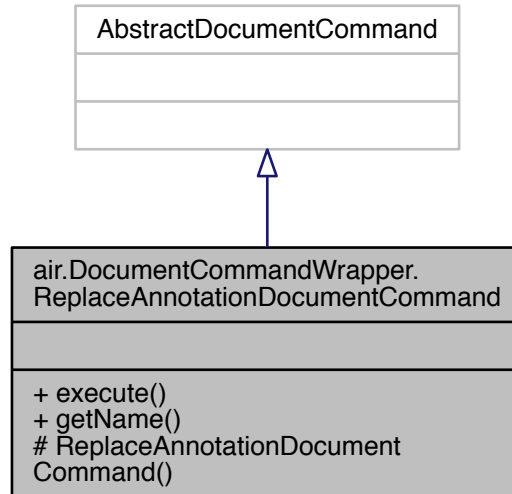
- src/air/AbstractDocumentCommandWrapper.java

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

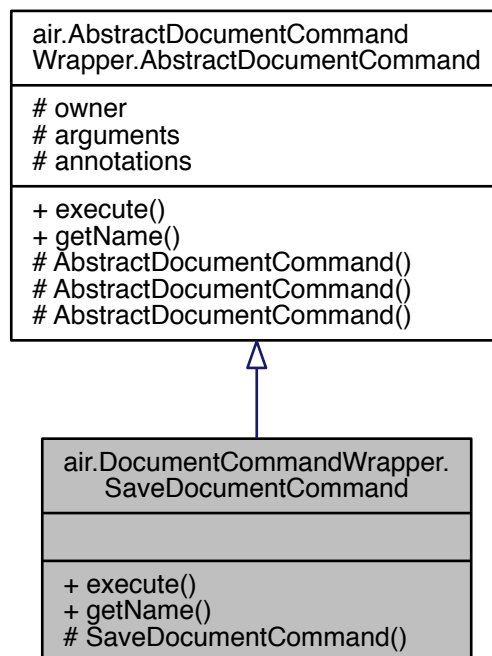
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

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

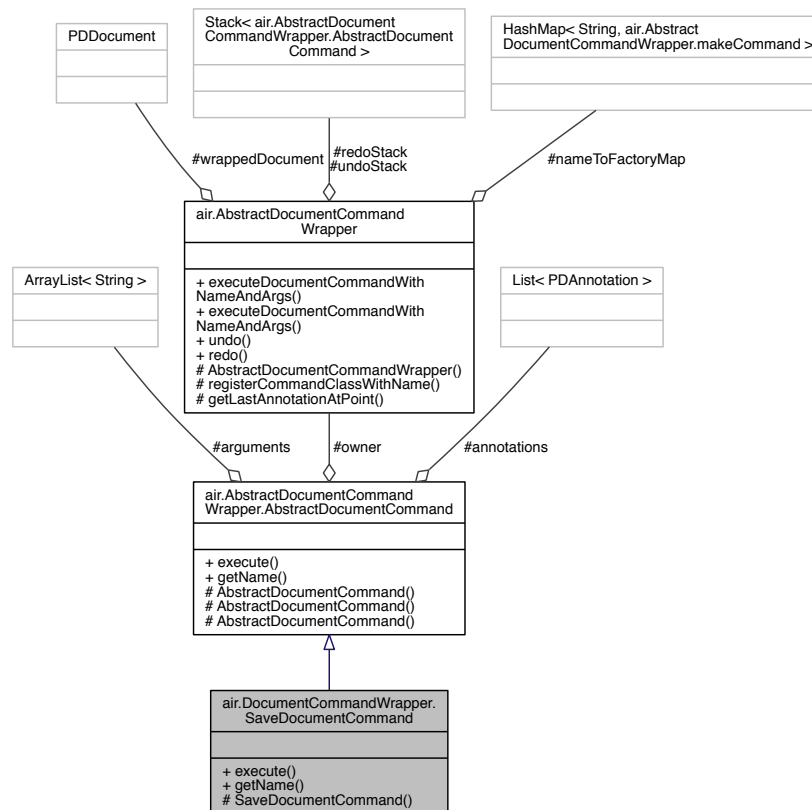
- src/air/DocumentCommandWrapper.java

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

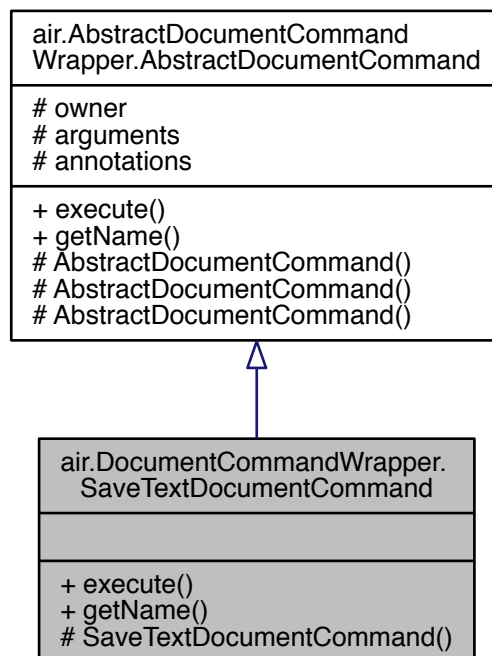
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

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

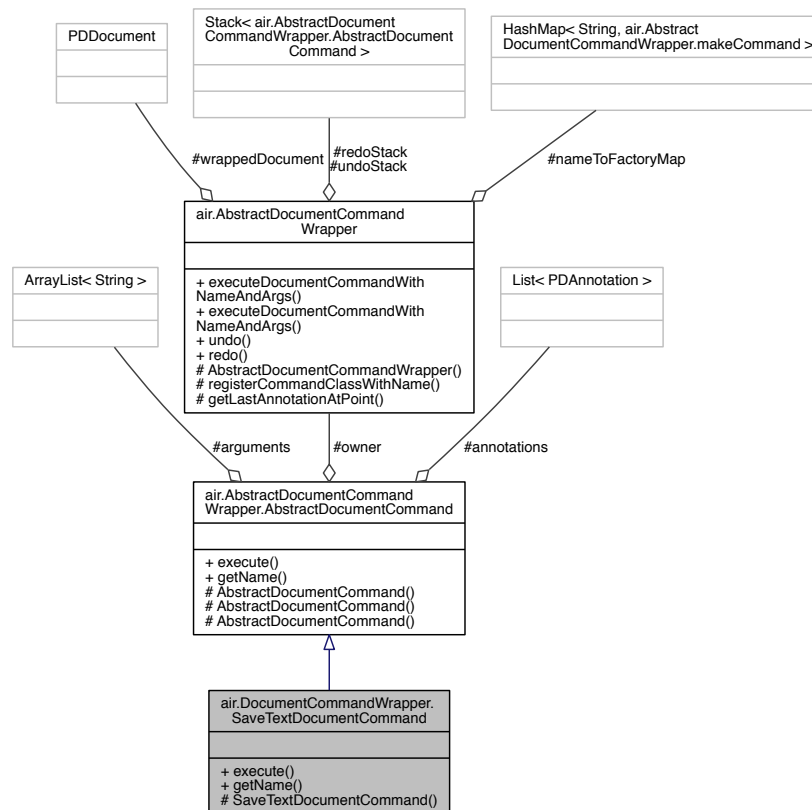
- src/air/DocumentCommandWrapper.java

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

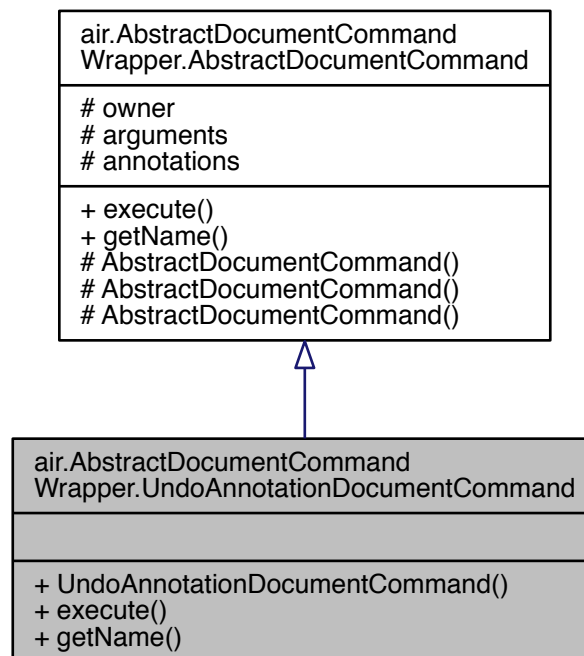
The name of the command as it will appear in a user interface for undo and redo operations e.g. "Undo Delete Annotation" where the string after "Undo " is returned from [getName\(\)](#).

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

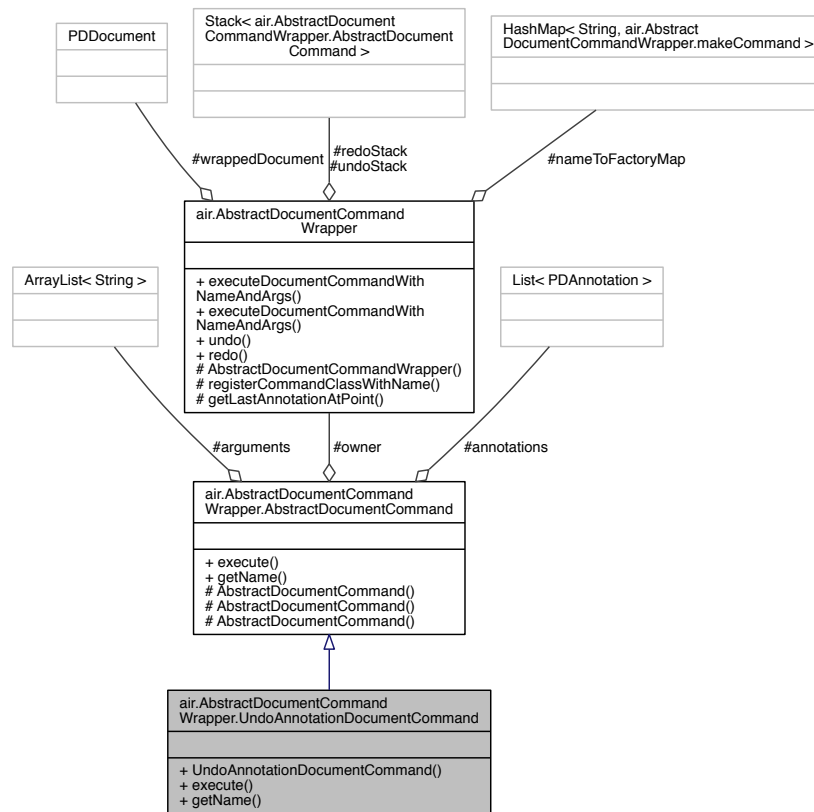
- src/air/DocumentCommandWrapper.java

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`

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