AMWorkflowController Class Reference

Apple Applications > Automator



ď

Apple Inc. © 2007 Apple Inc. All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, mechanical, electronic, photocopying, recording, or otherwise, without prior written permission of Apple Inc., with the following exceptions: Any person is hereby authorized to store documentation on a single computer for personal use only and to print copies of documentation for personal use provided that the documentation contains Apple's copyright notice.

The Apple logo is a trademark of Apple Inc.

Use of the "keyboard" Apple logo (Option-Shift-K) for commercial purposes without the prior written consent of Apple may constitute trademark infringement and unfair competition in violation of federal and state laws.

No licenses, express or implied, are granted with respect to any of the technology described in this document. Apple retains all intellectual property rights associated with the technology described in this document. This document is intended to assist application developers to develop applications only for Apple-labeled computers.

Every effort has been made to ensure that the information in this document is accurate. Apple is not responsible for typographical errors.

Apple Inc. 1 Infinite Loop Cupertino, CA 95014 408-996-1010

Apple, the Apple logo, Mac, and Mac OS are trademarks of Apple Inc., registered in the United States and other countries.

Simultaneously published in the United States and Canada.

Even though Apple has reviewed this document, APPLE MAKES NO WARRANTY OR REPRESENTATION, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS DOCUMENT, ITS QUALITY, ACCURACY, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. AS A RESULT, THIS DOCUMENT IS PROVIDED "AS 1S," AND YOU, THE READER, ARE ASSUMING THE ENTIRE RISK AS TO ITS QUALITY AND ACCURACY.

IN NO EVENT WILL APPLE BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY

DEFECT OR INACCURACY IN THIS DOCUMENT, even if advised of the possibility of such damages.

THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS, ORAL OR WRITTEN, EXPRESS OR IMPLIED. No Apple dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

Some states do not allow the exclusion or limitation of implied warranties or liability for incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Contents

AMWorkflowController Class Reference 5

```
Overview 5
Tasks 5
  Accessing the Workflow 5
  Accessing the Workflow View 6
  Accessing the Delegate 6
  Controlling the Workflow 6
  Running an Action in the Workflow 6
  Errors Messages 7
Instance Methods 7
  canRun 7
  delegate 7
  isRunning 8
  run: 8
  setDelegate: 8
  setWorkflow: 9
  setWorkflowView: 9
  stop: 9
  workflow 10
  workflowView 10
Delegate Methods 10
  workflowController:didError: 10
  workflowController:didRunAction: 11
  workflowController:willRunAction: 11
  workflowControllerDidRun: 12
  workflowControllerDidStop: 12
  workflowControllerWillRun: 12
  workflowControllerWillStop: 12
```

Document Revision History 15

Index 17

AMWorkflowController Class Reference

Inherits fromNSController : NSObjectConforms toNSCoding (NSController)

NSObject (NSObject)

Framework /System/Library/Frameworks/Automator.framework

Availability Available in Mac OS X v10.5 and later.

Declared in AMWorkflowController.h

Companion guides Automator Programming Guide

Automator Framework Reference

Related sample code AutoSample

Overview

The AMWorkflowController class lets you manage an Automator workflow in your application. You use the AMWorkflow class to instantiate a workflow and an instance of AMWorkflowView to display it.

A controller can run and stop a workflow and obtain information about its state. The controller's delegate can receive messages as the workflow is executed and its actions are run.

You can load and run a workflow with minimal overhead by using the AMWorkflow class method runWorkflowAtURL:withInput:error:.When you use AMWorkflowController, you get more control of the process, but there's more work, as you must create and initialize both the workflow and the workflow controller objects.

A workflow is run in a separate process so that any actions it contains are executed in a separate memory space. That helps to insulate your application from crashes, memory leaks, or exceptions that might occur from running the actions in a workflow.

Tasks

Accessing the Workflow

setWorkflow: (page 9)
 Sets the receiver's workflow.

workflow (page 10)
 Returns the receiver's workflow.

Accessing the Workflow View

- setWorkflowView: (page 9)
 Sets the receiver's workflow view.
- workflowView (page 10)
 Returns the receiver's workflow view.

Accessing the Delegate

- delegate (page 7)
 Returns the receiver's delegate.
- setDelegate: (page 8)Sets the receiver's delegate.

Controlling the Workflow

- canRun (page 7)
 - Returns a Boolean value that indicates whether the receiver's workflow is able to run.
- isRunning (page 8)
 - Returns a Boolean value that indicates whether the receiver's workflow is currently running.
- run: (page 8)
 - Runs the associated workflow, after first clearing any results stored by its actions during any previous run.
- stop: (page 9)
 - Stops the associated workflow.
- workflowControllerWillRun: (page 12) delegate method Invoked when the workflow is about to run.
- workflowControllerDidRun: (page 12) delegate method
 Invoked after the workflow is run.
- workflowControllerWillStop: (page 12) delegate method Invoked when the workflow is about to stop.
- workflowControllerDidStop: (page 12) delegate method Invoked after the workflow stops.

Running an Action in the Workflow

- workflowController:didRunAction: (page 11) delegate method
 Invoked when an action in the receiver's workflow is finished running.
- workflowController:willRunAction: (page 11) delegate method
 Invoked when an action in the receiver's workflow is about to run.

Errors Messages

workflowController:didError: (page 10) delegate method
 Invoked when the receiver's workflow encounters an error.

Instance Methods

canRun

Returns a Boolean value that indicates whether the receiver's workflow is able to run.

- (BOOL)canRun

Return Value

YES if the controller's workflow is able to run; NO otherwise.

Discussion

You might use this method to determine when to enable a "Run" button or other UI element you use to run the workflow.

Availability

Available in Mac OS X v10.5 and later.

See Also

- is Running (page 8)

Declared In

AMWorkflowController.h

delegate

Returns the receiver's delegate.

- (id)delegate

Return Value

The controller's delegate.

Availability

Available in Mac OS X v10.5 and later.

See Also

- setDelegate: (page 8)

Declared In

AMWorkflowController.h

isRunning

Returns a Boolean value that indicates whether the receiver's workflow is currently running.

- (BOOL)isRunning

Return Value

YES if the controller's workflow is currently running; NO otherwise.

Availability

Available in Mac OS X v10.5 and later.

See Also

- canRun (page 7)

Declared In

AMWorkflowController.h

run:

Runs the associated workflow, after first clearing any results stored by its actions during any previous run.

- (IBAction)run:(id)sender

Parameters

sender

Object that initiated the run action.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- stop: (page 9)
```

Declared In

AMWorkflowController.h

setDelegate:

Sets the receiver's delegate.

- (void)setDelegate:(id)delegate

Parameters

delegate

The delegate object to set. This object will receive updates on the progress and state of the workflow controller.

Availability

Available in Mac OS X v10.5 and later.

See Also

- delegate (page 7)

Declared In

AMWorkflowController.h

setWorkflow:

Sets the receiver's workflow.

- (void)setWorkflow:(AMWorkflow *)workflow

Parameters

workflow

A workflow object.

Availability

Available in Mac OS X v10.5 and later.

See Also

- workflow (page 10)

Declared In

AMWorkflowController.h

setWorkflowView:

Sets the receiver's workflow view.

- (void)setWorkflowView:(AMWorkflowView *)view

Parameters

view

A workflow view object.

Availability

Available in Mac OS X v10.5 and later.

See Also

- workflowView (page 10)

Declared In

AMWorkflowController.h

stop:

Stops the associated workflow.

- (IBAction)**stop:**(id)*sender*

Parameters

sender

Object that initiated the stop action.

Availability

Available in Mac OS X v10.5 and later.

See Also

- run: (page 8)

Declared In

AMWorkflowController.h

workflow

Returns the receiver's workflow.

- (AMWorkflow *)workflow

Return Value

The controller's workflow.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setWorkflow: (page 9)
```

Declared In

AMWorkflowController.h

workflowView

Returns the receiver's workflow view.

- (AMWorkflowView *)workflowView

Return Value

The controller's workflow view.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setWorkflowView: (page 9)
```

Declared In

AMWorkflowController.h

Delegate Methods

workflowController:didError:

Invoked when the receiver's workflow encounters an error.

(void)workflowController:(AMWorkflowController *)controller didError:(NSError *)error

Parameters

controller

The controller object sending the message.

error

If a workflow error occurs, upon return contains an instance of NSError that describes the problem.

Availability

Available in Mac OS X v10.5 and later.

Declared In

AMWorkflowController.h

workflowController:didRunAction:

Invoked when an action in the receiver's workflow is finished running.

(void)workflowController:(AMWorkflowController *)controller didRunAction:(AMAction *)action

Parameters

controller

The controller object sending the message.

action

The workflow action that ran.

Availability

Available in Mac OS X v10.5 and later.

Declared In

AMWorkflowController.h

workflowController:willRunAction:

Invoked when an action in the receiver's workflow is about to run.

(void)workflowController:(AMWorkflowController *)controller willRunAction:(AMAction *)action

Parameters

controller

The controller object sending the message.

action

The workflow action that will run.

Availability

Available in Mac OS X v10.5 and later.

Declared In

AMWorkflowController.h

Delegate Methods

11

workflowControllerDidRun:

Invoked after the workflow is run.

- (void)workflowControllerDidRun:(AMWorkflowController *)controller

Parameters

controller

The controller object sending the message.

Availability

Available in Mac OS X v10.5 and later.

Declared In

AMWorkflowController.h

workflowControllerDidStop:

Invoked after the workflow stops.

- (void)workflowControllerDidStop:(AMWorkflowController *)controller

Parameters

controller

The controller object sending the message.

Availability

Available in Mac OS X v10.5 and later.

Declared In

AMWorkflowController.h

workflowControllerWillRun:

Invoked when the workflow is about to run.

- (void)workflowControllerWillRun:(AMWorkflowController *)controller

Parameters

controller

The controller object sending the message.

Availability

Available in Mac OS X v10.5 and later.

Declared In

AMWorkflowController.h

workflowControllerWillStop:

Invoked when the workflow is about to stop.

- (void)workflowControllerWillStop:(AMWorkflowController *)controller

Parameters

controller

The controller object sending the message.

Availability Available in Mac OS X v10.5 and later.

Declared In

AMWorkflowController.h

AMWorkflowController Class Reference

Document Revision History

This table describes the changes to AMWorkflowController Class Reference.

Date	Notes
2007-07-09	New document that describes the class used to manage an Automator workflow in an application.

REVISION HISTORY

Document Revision History

Index

С	
canRun instance method 7	
D	
	_
delegate instance method 7	
I	
isRunning instance method 8	
R	
run: instance method 8	_
Tull. Illistance method o	
S	
setDelegate: instance method 8	
<pre>setWorkflow: instance method 9 setWorkflowView: instance method 9</pre>	
stop: instance method 9	
W	
1.63	_
<pre>workflow instance method 10 workflowController:didError: <nsobject> delegate</nsobject></pre>	e
method 10	
<pre>workflowController:didRunAction: <nsobject> delegate method 11</nsobject></pre>	
workflowController:willRunAction: < NSObject>	>
delegate method 11	

```
workflowControllerDidRun: <NSObject> delegate
   method 12
workflowControllerDidStop: <NSObject> delegate
   method 12
workflowControllerWillRun: <NSObject> delegate
   method 12
workflowControllerWillStop: <NSObject> delegate
   method 12
workflowView instance method 10
```