

## Adaptive Hands

1.2.2

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# Chapter 1

## Namespace Index

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# Class Index

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

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A window where adaptive hands settings can be modified. . . . .	
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A bend state that holds bent/unbent state for a hand. . . . .	
<a href="#">AdaptiveHands.Triggers.BendStateArea</a>	17
A simple component that uses the 'OnTriggerEnter' and 'OnTriggerExit' callbacks to set a state on a BendStateSwapper that enters a trigger and clears it when it exits the trigger. . . . .	
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A class that holds Transform references to all possible bones in a finger. . . . .	
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A hand pose. . . . .	

<a href="#">AdaptiveHands.Triggers.HandPoseArea</a>	
A simple component that uses the 'OnTriggerEnter' and 'OnTriggerExit' callbacks to set a state on a HandPoser that enters a trigger and clears it when it exits the trigger. . . . .	36
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<a href="#">AdaptiveHands.Editor.HandPoserEditor</a>	
A custom inspector for the HandPoser component. . . . .	44
<a href="#">AdaptiveHands.Editor.HandSymmetryToolWindow</a>	
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<a href="#">AdaptiveHands.Editor.Animation.HumanoidAnimationExporterWindow</a>	
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<a href="#">AdaptiveHands.KinematicFinger</a>	
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Implements adaptive hand behaviour for a hand with fingers kinematically. This component is only responsible for the hands visuals. . . . .	49
<a href="#">AdaptiveHands.Editor.KinematicHandEditor</a>	
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## Chapter 4

# Namespace Documentation

### 4.1 AdaptiveHands Namespace Reference

#### Classes

- class [FingerBoneTransforms](#)  
*A class that holds Transform references to all possible bones in a finger.*
- class [HandBoneTransforms](#)  
*A class that holds Transform references to all possible bones in a hand.*
- class [KinematicFinger](#)  
*Holds information about a finger from a [KinematicHand](#).*
- class [KinematicHand](#)  
*Implements adaptive hand behaviour for a hand with fingers kinematically. This component is only responsible for the hands visuals.*

### 4.2 AdaptiveHands.BendStates Namespace Reference

#### Classes

- class [BendState](#)  
*A bend state that holds bent/unbent state for a hand.*
- class [BendStateSwapper](#)  
*A public class that allows 'bent' and 'unbent' hand states to be named, saved, and swapped at runtime or in the editor.*

### 4.3 AdaptiveHands.Delegates Namespace Reference

#### Functions

- delegate void [ActionRef< T >](#) (ref T pItem)  
*A simple delegate for events where an argument is passed by reference.*
- delegate void [ActionRef< VALUE\\_ONE, T >](#) (VALUE\_ONE pValueOne, ref T pItem)  
*A simple delegate for events where an argument is passed by reference.*

- delegate void [ActionRef](#)< [VALUE\\_ONE](#), [VALUE\\_TWO](#), [T](#) > ([VALUE\\_ONE](#) pValueOne, [VALUE\\_TWO](#) pValueTwo, ref [T](#) pItem)
- A simple delegate for events where an argument is passed by reference.*
- delegate void [ActionRef](#)< [VALUE\\_ONE](#), [VALUE\\_TWO](#), [VALUE\\_THREE](#), [T](#) > ([VALUE\\_ONE](#) pValueOne, [VALUE\\_TWO](#) pValueTwo, [VALUE\\_THREE](#) pValueThree, ref [T](#) pItem)
- A simple delegate for events where an argument is passed by reference.*
- delegate void [DoubleActionRef](#)< [T1](#), [T2](#) > (ref [T1](#) pItemA, ref [T2](#) pItemB)
- A simple delegate for events where two arguments are passed by reference.*
- delegate void [DoubleActionRef](#)< [V1](#), [T1](#), [T2](#) > ([V1](#) pValueA, ref [T1](#) pItemA, ref [T2](#) pItemB)
- A simple delegate for events where two arguments are passed by reference.*
- delegate void [DoubleActionRef](#)< [V1](#), [V2](#), [T1](#), [T2](#) > ([V1](#) pValueA, [V2](#) pValueB, ref [T1](#) pItemA, ref [T2](#) pItemB)
- A simple delegate for events where two arguments are passed by reference.*
- delegate void [DoubleActionRef](#)< [V1](#), [V2](#), [V3](#), [T1](#), [T2](#) > ([V1](#) pValueA, [V2](#) pValueB, [V3](#) pValueC, ref [T1](#) pItemA, ref [T2](#) pItemB)
- A simple delegate for events where two arguments are passed by reference.*

### 4.3.1 Function Documentation

#### 4.3.1.1 [ActionRef](#)< [T](#) >()

```
delegate void AdaptiveHands.Delegates.ActionRef< T > (
    ref T pItem )
```

A simple delegate for events where an argument is passed by reference.

##### Template Parameters

<a href="#">T</a>	The type of the passed reference.
-------------------	-----------------------------------

##### Parameters

<a href="#">pItem</a>	The reference that was passed.
-----------------------	--------------------------------

#### 4.3.1.2 [ActionRef](#)< [VALUE\\_ONE](#), [T](#) >()

```
delegate void AdaptiveHands.Delegates.ActionRef< VALUE\_ONE, T > (
    VALUE\_ONE pValueOne,
    ref T pItem )
```

A simple delegate for events where an argument is passed by reference.

##### Template Parameters

<a href="#">VALUE_ONE</a>	The type of the first passed value.
<a href="#">T</a>	The type of the passed reference.

## Parameters

<i>pValueOne</i>	The first value that was passed.
<i>pItem</i>	The reference that was passed.

**4.3.1.3   ActionRef< VALUE\_ONE, VALUE\_TWO, T >()**

```
delegate void AdaptiveHands.Delegates.ActionRef< VALUE_ONE, VALUE_TWO, T > (
    VALUE_ONE pValueOne,
    VALUE_TWO pValueTwo,
    ref T pItem )
```

A simple delegate for events where an argument is passed by reference.

## Template Parameters

<i>VALUE_ONE</i>	The type of the first passed value.
<i>VALUE_TWO</i>	The type of the second passed value.
<i>T</i>	The type of the passed reference.

## Parameters

<i>pValueOne</i>	The first value that was passed.
<i>pValueTwo</i>	The second value that was passed.
<i>pItem</i>	The reference that was passed.

**4.3.1.4   ActionRef< VALUE\_ONE, VALUE\_TWO, VALUE\_THREE, T >()**

```
delegate void AdaptiveHands.Delegates.ActionRef< VALUE_ONE, VALUE_TWO, VALUE_THREE, T > (
    VALUE_ONE pValueOne,
    VALUE_TWO pValueTwo,
    VALUE_THREE pValueThree,
    ref T pItem )
```

A simple delegate for events where an argument is passed by reference.

## Template Parameters

<i>VALUE_ONE</i>	The type of the first passed value.
<i>VALUE_TWO</i>	The type of the second passed value.
<i>VALUE_THREE</i>	The type of the third passed value.
<i>T</i>	The type of the passed reference.

## Parameters

<i>pValueOne</i>	The first value that was passed.
<i>pValueTwo</i>	The second value that was passed.
<i>pValueThree</i>	The third value that was passed.
<i>pItem</i>	The reference that was passed.

**4.3.1.5 DoubleActionRef< T1, T2 >()**

```
delegate void AdaptiveHands.Delegates.DoubleActionRef< T1, T2 > (
    ref T1 pItemA,
    ref T2 pItemB )
```

A simple delegate for events where two arguments are passed by reference.

## Template Parameters

<i>T1</i>	The type of the first passed reference.
<i>T2</i>	The type of the second passed reference.

## Parameters

<i>pItemA</i>	The first reference that was passed.
<i>pItemB</i>	The second reference that was passed.

**4.3.1.6 DoubleActionRef< V1, T1, T2 >()**

```
delegate void AdaptiveHands.Delegates.DoubleActionRef< V1, T1, T2 > (
    V1 pValueA,
    ref T1 pItemA,
    ref T2 pItemB )
```

A simple delegate for events where two arguments are passed by reference.

## Template Parameters

<i>V1</i>	The type of the first passed value.
<i>T1</i>	The type of the first passed reference.
<i>T2</i>	The type of the second passed reference.

## Parameters

<i>pValueA</i>	The first value that was passed.
<i>pItemA</i>	The first reference that was passed.



## Parameters

<i>pItemB</i>	The second reference that was passed.
---------------	---------------------------------------

**4.3.1.7 DoubleActionRef< V1, V2, T1, T2 >()**

```
delegate void AdaptiveHands.Delegates.DoubleActionRef< V1, V2, T1, T2 > (
    V1 pValueA,
    V2 pValueB,
    ref T1 pItemA,
    ref T2 pItemB )
```

A simple delegate for events where two arguments are passed by reference.

## Template Parameters

<i>V1</i>	The type of the first passed value.
<i>V2</i>	The type of the second passed value.
<i>T1</i>	The type of the first passed reference.
<i>T2</i>	The type of the second passed reference.

## Parameters

<i>pValueA</i>	The first value that was passed.
<i>pValueB</i>	The second value that was passed.
<i>pItemA</i>	The first reference that was passed.
<i>pItemB</i>	The second reference that was passed.

**4.3.1.8 DoubleActionRef< V1, V2, V3, T1, T2 >()**

```
delegate void AdaptiveHands.Delegates.DoubleActionRef< V1, V2, V3, T1, T2 > (
    V1 pValueA,
    V2 pValueB,
    V3 pValueC,
    ref T1 pItemA,
    ref T2 pItemB )
```

A simple delegate for events where two arguments are passed by reference.

## Template Parameters

<i>V1</i>	The type of the first passed value.
<i>V2</i>	The type of the second passed value.
<i>V3</i>	The type of the third passed value.
<i>T1</i>	The type of the first passed reference.
<i>T2</i>	The type of the second passed reference.

## Parameters

<i>pValueA</i>	The first value that was passed.
<i>pValueB</i>	The second value that was passed.
<i>pValueC</i>	The third value that was passed.
<i>pItemA</i>	The first reference that was passed.
<i>pItemB</i>	The second reference that was passed.

## 4.4 AdaptiveHands.Editor Namespace Reference

### Classes

- class **AdaptiveHandsEditorSettings**  
*A public static class that stores settings for Adaptive Hands.*
- class [AdaptiveHandsEditorSettingsWindow](#)  
*A window where adaptive hands settings can be modified.*
- class [BendStateSwapperEditor](#)  
*A custom inspector for the BendStateSwapper component.*
- class **EditModeHandSimulator**  
*A static class that allows a [KinematicHand](#) to be simulated in edit mode.*
- class **EditorSymmetryUtility**  
*A public static class that provides extra runtime methods relating to symmetry.*
- class [HandPoserEditor](#)  
*A custom inspector for the HandPoser component.*
- class [HandSymmetryToolWindow](#)  
*A window where adaptive hand components and settings can be copied from a symmetrical hand.*
- class [KinematicHandEditor](#)  
*A custom inspector for KinematicHands.*
- class [PoseSymmetryToolWindow](#)  
*A window where adaptive hand components and settings from HnadPoser or BendStateSwapper components can be copied from a symmetrical hand.*
- class **UndoTracker**  
*A public static class that tracks editor undo groups that can not be easily grouped.*

## 4.5 AdaptiveHands.Editor.Animation Namespace Reference

### Classes

- class **GenericAnimationExporter**  
*A public static class that provides methods to export generic animations.*
- class [GenericAnimationExporterWindow](#)  
*A tool designed to make it easy to export generic hand animations.*
- class **HumanoidAnimationExporter**  
*A public static class that provides methods to export adaptive hand animations.*
- class [HumanoidAnimationExporterWindow](#)  
*A tool designed to make it easy to export humanoid hand animations.*

## 4.6 AdaptiveHands.Events Namespace Reference

### Classes

- class [BendStateAreaUnityEvent](#)

*Arg0: BendStateArea - The BendStateArea involved in the event. Arg1: BendStateSwapper - The BendStateSwapper involved in the event.*

- class [HandPoseAreaUnityEvent](#)

*Arg0: HandPoseArea - The HandPoseArea involved in the event. Arg1: HandPoser - The HandPoser involved in the event.*

## 4.7 AdaptiveHands.Poser Namespace Reference

### Classes

- class [HandPose](#)

*A hand pose.*

- class [HandPoser](#)

*A component that allows poses to be saved and loaded for a hand.*

## 4.8 AdaptiveHands.Triggers Namespace Reference

### Classes

- class [BendStateArea](#)

*A simple component that uses the 'OnTriggerEnter' and 'OnTriggerExit' callbacks to set a state on a BendStateSwapper that enters a trigger and clears it when it exits the trigger.*

- class [HandPoseArea](#)

*A simple component that uses the 'OnTriggerEnter' and 'OnTriggerExit' callbacks to set a state on a HandPoser that enters a trigger and clears it when it exits the trigger.*

## 4.9 AdaptiveHands.Utility Namespace Reference

### Classes

- class **GizmoUtility**

*A public static class that provides extra runtime methods relating to gizmos.*

- class **TransformUtility**

*A public static class that provides helper methods for working with Transforms.*



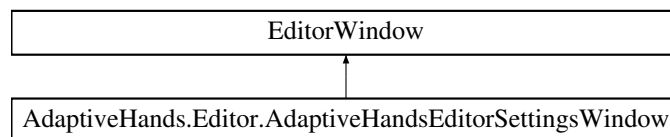
## Chapter 5

# Class Documentation

### 5.1 AdaptiveHands.Editor.AdaptiveHandsEditorSettingsWindow Class Reference

A window where adaptive hands settings can be modified.

Inheritance diagram for AdaptiveHands.Editor.AdaptiveHandsEditorSettingsWindow:



#### Public Member Functions

- void **ResetGlobalSettings** ()  
*Resets and overwrites the AdaptiveHandsEditorSettings static classes' settings with the ones from this [AdaptiveHandsEditorSettingsWindow](#).*

#### Events

- static Action< [AdaptiveHandsEditorSettingsWindow](#) > **Initialized**  
*A C# delegate event that is invoked when the [AdaptiveHandsEditorSettingsWindow](#) is intialized.*

#### 5.1.1 Detailed Description

A window where adaptive hands settings can be modified.

Author: Mathew Aloisio

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

- AdaptiveHandsEditorSettingsWindow.cs

## 5.2 AdaptiveHands.BendStates.BendState Class Reference

A bend state that holds bent/unbent state for a hand.

### Classes

- class [BoneEntry](#)

### Public Member Functions

- **BendState** ([BendState](#) pOther)
- [BoneEntry](#)[] **CopyBendStateData** ()  
*Generates and returns a deep copy of the 'bendStateData' array for this [BendState](#).*

### Public Attributes

- string **name**  
*The name of the bend state.*
- [BoneEntry](#)[] **bendStateData**  
*The bend state data for the bend state.*

### 5.2.1 Detailed Description

A bend state that holds bent/unbent state for a hand.

### 5.2.2 Member Function Documentation

#### 5.2.2.1 CopyBendStateData()

```
BoneEntry [ ] AdaptiveHands.BendStates.BendState.CopyBendStateData ( )
```

Generates and returns a deep copy of the 'bendStateData' array for this [BendState](#).

#### Returns

a deep copy of the 'bendStateData' array for this [BendState](#).

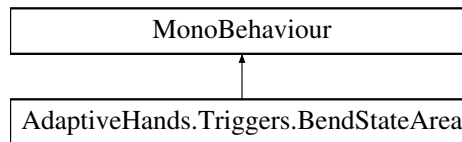
The documentation for this class was generated from the following file:

- BendState.cs

## 5.3 AdaptiveHands.Triggers.BendStateArea Class Reference

A simple component that uses the 'OnTriggerEnter' and 'OnTriggerExit' callbacks to set a state on a BendStateSwapper that enters a trigger and clears it when it exits the trigger.

Inheritance diagram for AdaptiveHands.Triggers.BendStateArea:



### Public Attributes

- string **bendState**  
*The name of the bend state to attempt to put the BendStateSwapper into when it enters the bend state area..*
- bool **checkRigidbody**  
*If not found on the triggering Collider*
- bool **checkTriggerStay**  
*An option that allows for triggers to be considered as*
- bool **clearOnExit** = true  
*Should the set bend state be cleared on exit from the area?*
- [BendStateAreaUnityEvent SwapperEnteringArea](#)  
*An event that is invoked just before a BendStateSwapper enters the area.  
lnArg*
- [BendStateAreaUnityEvent SwapperEnteredArea](#)  
*An event that is invoked whenever a BendStateSwapper enters the area.  
lnArg*
- [BendStateAreaUnityEvent SwapperExitingArea](#)  
*An event that is invoked just before a BendStateSwapper exits the area.  
lnArg*
- [BendStateAreaUnityEvent SwapperExitedArea](#)  
*An event that is invoked whenever a BendStateSwapper exits the area.  
lnArg*

### Events

- ActionRef< [BendStateArea](#), [BendStateSwapper](#), bool > **BlockBendStateSwapDelegate**  
*A C# event delegate that provides the opportunity for external scripts to block the bend state area from posing under certain conditions. Arg0: [BendStateArea](#) - The [BendStateArea](#) triggering the bend state swapping. Arg1: [BendStateSwapper](#) - The BendStateSwapper being triggered by the area. Arg2: ref bool - If true the bend state swap is blocked, otherwise if false the bend state area will function normally.*

#### 5.3.1 Detailed Description

A simple component that uses the 'OnTriggerEnter' and 'OnTriggerExit' callbacks to set a state on a BendStateSwapper that enters a trigger and clears it when it exits the trigger.

Author: Mathew Aloisio

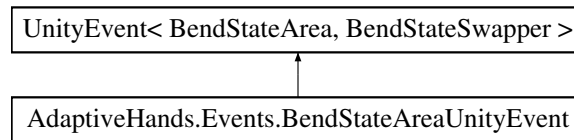
The documentation for this class was generated from the following file:

- BendStateArea.cs

## 5.4 AdaptiveHands.Events.BendStateAreaUnityEvent Class Reference

Arg0: BendStateArea - The BendStateArea involved in the event. Arg1: BendStateSwapper - The BendStateSwapper involved in the event.

Inheritance diagram for AdaptiveHands.Events.BendStateAreaUnityEvent:



### 5.4.1 Detailed Description

Arg0: BendStateArea - The BendStateArea involved in the event. Arg1: BendStateSwapper - The BendStateSwapper involved in the event.

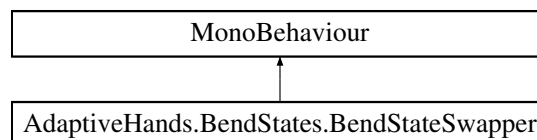
The documentation for this class was generated from the following file:

- BendStateAreaUnityEvent.cs

## 5.5 AdaptiveHands.BendStates.BendStateSwapper Class Reference

A public class that allows 'bent' and 'unbent' hand states to be named, saved, and swapped at runtime or in the editor.

Inheritance diagram for AdaptiveHands.BendStates.BendStateSwapper:



### Public Member Functions

- void **SetBendStatesToCurrentState** ()  
*Sets the bend states of the Hands finger bones to the current state.*
- void **SetBendStatesToState** (BendState pState)  
*Sets the bend states of the Hands finger bones to the given state, pState.*
- void **SetBendStatesToStateIndex** (int pIndex)  
*Sets the bend states of the Hands finger bones to the given state index.*
- void **SetState** (string pStateName)  
*Sets the poser to the state with the given name. If not found or pStateName is null the state is cleared.*
- void **SetStateByIndex** (int pIndex)  
*Sets the state by index.*
- void **ClearState** ()



- Clears the current state.*

  - void **SaveDefaultNoBendState** ()  
*Saves/overwrites the default 'full bend' info state using the current settings for the relevant hand.*
  - void **SaveDefaultFullBendState** ()  
*Saves/overwrites the default 'full bend' info state using the current settings for the relevant hand.*
  - void **SaveNewState** (string pStateName)  
*Saves a new state with the given name and the default bend settings.*
  - void **SaveNoBendState** (string pStateName)  
*Saves the current Hand 'full bend' state as a state with the given name pStateName. Overwrites existing entries.*
  - void **SaveNoBendStateByIndex** (int pIndex)  
*Saves the current Hand 'full bend' state overwriting the state in the given index, pIndex. Overwrites existing entries.*
  - void **SaveFullBendState** (string pStateName)  
*Saves the current Hand 'full bend' state as a state with the given name pStateName. Overwrites existing entries.*
  - void **SaveFullBendStateByIndex** (int pIndex)  
*Saves the current Hand 'full bend' state overwriting the state in the given index, pIndex. Overwrites existing entries.*
  - void **DeleteStateByName** (string pStateName)  
*Deletes a state by name.*
  - void **DeleteStateByIndex** (int pIndex)  
*Deletes a state by index.*
  - **BendState** **GetStateByName** (string pStateName)  
*Returns the **BendState** with the given name, or null if not found. Note that 'defaultBendState' cannot be retrieved by name, only custom registered states can be retrieved using this method.*
  - int **GetStateIndexByName** (string pStateName)  
*Returns the index of the state with the given name, or STATE\_NONE (-1) if not found. Note that 'defaultBendState' cannot be retrieved by name, only custom registered states can be retrieved using this method.*
  - **BendState** **GetStateByIndex** (int pIndex)  
*Returns the **BendState** at the given index.*
  - List< **BendState.BoneEntry** > **GetCurrentBendStateData** ()  
*Generates and returns a List of BendState.BoneEntrys that contains the current finger bones full and full bend infos.*
  - **BendState** **GetBendStateByName** (string pBendStateName)  
*Returns the **BendState** with the given name, or null if not found.*
  - int **GetBendStateIndexByName** (string pBendStateName)  
*Returns the index of the pose with the given name, or STATE\_NONE (-1) if not found.*
  - **BendState** **GetBendStateByIndex** (int pIndex)  
*Retrieves the **BendState** in the given 'states' index, pIndex.*
  - void **OverwriteBendStates** (List< **BendState** > pStates)  
*Overwrites the 'Bend State' List with the given one.*

## Public Attributes

- **BendState** **defaultBendState**  
*Holds the default bend state for the relevant hand.*

## Static Public Attributes

- const int **STATE\_NONE** = -1  
*The value that represents no state index.*

## Properties

- int **CurrentStateIndex** [get]  
The current state index the poser is in, or `STATE_NONE` (-1) if not in any state.
- int **StateCount** [get]  
Returns the number of poses this component has registered.
- [KinematicHand](#) **Hand** [get]  
Returns the reference to the [KinematicHand](#) this poser belongs to.

### 5.5.1 Detailed Description

A public class that allows 'bent' and 'unbent' hand states to be named, saved, and swapped at runtime or in the editor.

Author: Mathew Aloisio

### 5.5.2 Member Function Documentation

#### 5.5.2.1 DeleteStateByIndex()

```
void AdaptiveHands.BendStates.BendStateSwapper.DeleteStateByIndex (
    int pIndex )
```

Deletes a state by index.

##### Parameters

<i>pIndex</i>	
---------------	--

#### 5.5.2.2 DeleteStateByName()

```
void AdaptiveHands.BendStates.BendStateSwapper.DeleteStateByName (
    string pStateName )
```

Deletes a state by name.

##### Parameters

<i>pStateName</i>	
-------------------	--

### 5.5.2.3 GetBendStateByIndex()

```
BendState AdaptiveHands.BendStates.BendStateSwapper.GetBendStateByIndex (
    int pIndex )
```

Retrieves the [BendState](#) in the given 'states' index, pIndex.

#### Parameters

<i>pIndex</i>	
---------------	--

#### Returns

the [BendState](#) in the given 'states' index, pIndex.

### 5.5.2.4 GetBendStateByName()

```
BendState AdaptiveHands.BendStates.BendStateSwapper.GetBendStateByName (
    string pBendStateName )
```

Returns the [BendState](#) with the given name, or null if not found.

#### Parameters

<i>pBendStateName</i>	
-----------------------	--

#### Returns

the [BendState](#) with the given name, or null if not found.

### 5.5.2.5 GetBendStateIndexByName()

```
int AdaptiveHands.BendStates.BendStateSwapper.GetBendStateIndexByName (
    string pBendStateName )
```

Returns the index of the pose with the given name, or STATE\_NONE (-1) if not found.

#### Parameters

<i>pBendStateName</i>	
-----------------------	--

#### Returns

an int representing the index of the pose with the given name, or STATE\_NONE (-1) if not found.

### 5.5.2.6 GetCurrentBendStateData()

```
List< BendState.BoneEntry > AdaptiveHands.BendStates.BendStateSwapper.GetCurrentBendStateData  
( )
```

Generates and returns a List of BendState.BoneEntry's that contains the current finger bones full and full bend infos.

Returns

### 5.5.2.7 GetStateByIndex()

```
BendState AdaptiveHands.BendStates.BendStateSwapper.GetStateByIndex (   
    int pIndex )
```

Returns the BendState at the given index.

Parameters

<i>pIndex</i>	
---------------	--

Returns

the BendState at the given index.

### 5.5.2.8 GetStateByName()

```
BendState AdaptiveHands.BendStates.BendStateSwapper.GetStateByName (   
    string pStateName )
```

Returns the BendState with the given name, or null if not found. Note that 'defaultBendState' cannot be retrieved by name, only custom registered states can be retrieved using this method.

Parameters

<i>pStateName</i>	
-------------------	--

Returns

the BendState with the given name, or null if not found.

### 5.5.2.9 GetStateIndexByName()

```
int AdaptiveHands.BendStates.BendStateSwapper.GetStateIndexByName (
    string pStateName )
```

Returns the index of the state with the given name, or STATE\_NONE (-1) if not found. Note that 'defaultBendState' cannot be retrieved by name, only custom registered states can be retrieved using this method.

#### Parameters

<i>pStateName</i>	
-------------------	--

#### Returns

an int representing the index of the state with the given name, or STATE\_NONE (-1) if not found.

### 5.5.2.10 OverwriteBendStates()

```
void AdaptiveHands.BendStates.BendStateSwapper.OverwriteBendStates (
    List< BendState > pStates )
```

Overwrites the 'Bend State' List with the given one.

#### Parameters

<i>pStates</i>	A List of <a href="#">BendStates</a> .
----------------	--

### 5.5.2.11 SaveFullBendState()

```
void AdaptiveHands.BendStates.BendStateSwapper.SaveFullBendState (
    string pStateName )
```

Saves the current Hand 'full bend' state as a state with the given name pStateName. Overwrites existing entries.

#### Parameters

<i>pStateName</i>	
-------------------	--

### 5.5.2.12 SaveFullBendStateByIndex()

```
void AdaptiveHands.BendStates.BendStateSwapper.SaveFullBendStateByIndex (
    int pIndex )
```

Saves the current Hand 'full bend' state overwriting the state in the given index, *pIndex*. Overwrites existing entries.

NOTE: This method does not perform any error checking to ensure the state at *pIndex* is valid.

#### Parameters

<i>pIndex</i>	
---------------	--

### 5.5.2.13 SaveNewState()

```
void AdaptiveHands.BendStates.BendStateSwapper.SaveNewState (
    string pStateName )
```

Saves a new state with the given name and the default bend settings.

#### Parameters

<i>pStateName</i>	
-------------------	--

### 5.5.2.14 SaveNoBendState()

```
void AdaptiveHands.BendStates.BendStateSwapper.SaveNoBendState (
    string pStateName )
```

Saves the current Hand 'full bend' state as a state with the given name *pStateName*. Overwrites existing entries.

#### Parameters

<i>pStateName</i>	
-------------------	--

### 5.5.2.15 SaveNoBendStateByIndex()

```
void AdaptiveHands.BendStates.BendStateSwapper.SaveNoBendStateByIndex (
    int pIndex )
```

Saves the current Hand 'full bend' state overwriting the state in the given index, *pIndex*. Overwrites existing entries.

NOTE: This method does not perform any error checking to ensure the state at *pIndex* is valid.

#### Parameters

<i>pIndex</i>	
---------------	--

#### 5.5.2.16 SetBendStatesToState()

```
void AdaptiveHands.BendStates.BendStateSwapper.SetBendStatesToState (
    BendState pState )
```

Sets the bend states of the Hands finger bones to the given state, pState.

##### Parameters

<i>pState</i>	The <a href="#">BendState</a> to set the state to.
---------------	--

#### 5.5.2.17 SetBendStatesToStateIndex()

```
void AdaptiveHands.BendStates.BendStateSwapper.SetBendStatesToStateIndex (
    int pIndex )
```

Sets the bend states of the Hands finger bones to the given state index.

##### Parameters

<i>pIndex</i>	The index of the <a href="#">BendState</a> to set the state to.
---------------	---

#### 5.5.2.18 SetState()

```
void AdaptiveHands.BendStates.BendStateSwapper.SetState (
    string pStateName )
```

Sets the poser to the state with the given name. If not found or pStateName is null the state is cleared.

##### Parameters

<i>pStateName</i>	
-------------------	--

#### 5.5.2.19 SetStateByIndex()

```
void AdaptiveHands.BendStates.BendStateSwapper.SetStateByIndex (
    int pIndex )
```

Sets the state by index.

#### Parameters

<i>pIndex</i>	
---------------	--

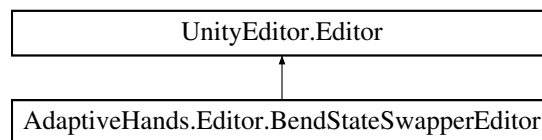
The documentation for this class was generated from the following file:

- BendStateSwapper.cs

## 5.6 AdaptiveHands.Editor.BendStateSwapperEditor Class Reference

A custom inspector for the BendStateSwapper component.

Inheritance diagram for AdaptiveHands.Editor.BendStateSwapperEditor:



### Public Member Functions

- override void **OnInspectorGUI** ()

#### 5.6.1 Detailed Description

A custom inspector for the BendStateSwapper component.

Author: Mathew Aloisio

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

- BendStateSwapperEditor.cs

## 5.7 AdaptiveHands.KinematicFinger.Bone Class Reference

A finger bone.



## Public Member Functions

- **Bone** ([Bone](#) pOther)
- void **MoveToBend** ()  
*Moves the finger bone to the current Bend position over time.*
- void **MoveToBend** (float pBend)  
*Moves the finger bone to the pBend position over time.*
- void **SnapToBend** ()  
*Snaps the finger bone to the current Bend position instantly.*
- void **SnapToBend** (float pBend)  
*Snaps the finger bone to the pBend position instantly.*
- void **ZeroCurrentBend** ()  
*Zeros the current bend for this finger bone and snaps to the zero'd bend.*
- bool **CorrectBend** ()  
*Corrects the Bend of the finger bone by checking all bend steps up til the current 'Bend' value.*
- [CapsulePoints](#) **GetCapsulePoints** ()  
*Returns a [CapsulePoints](#) instance that contains the 2 points of this fingers capsule collider. NOTE: If colliderLength == 0 the same point (center point of the sphere collider) is returned as both point1 and point2. WARNING: This method will throw an error if you invoke it while colliderTransform is null.*
- bool **CheckIfBlockedByCollision** ()  
*Checks if this finger bone is blocked by a collision and returns true if this finger bone is blocked by a collision, otherwise false.*

## Public Attributes

- Transform **bone**  
*The Transform of the finger bone.*
- float **targetBend**  
*The target bend of the finger.*
- [BoneTransform](#) **noBendInfo**  
*Transform information about the finger while at no bend*
- [BoneTransform](#) **fullBendInfo**  
*Transform information about the finger while at full bend*
- Transform **colliderTransform**
- Vector3 **colliderOffset** = Vector3.zero  
*The collider offset in local space relative to colliderTransform.*
- float **colliderRadius** = 0.007f  
*The radius of the collider for this finger bone.*
- float **colliderLength** = 0f  
*The length from center*
- Vector3 **colliderUp** = Vector3.up  
*The up direction in local space for the collider for this bone. [The direction that points upwards from the bone*
- Vector3 **colliderForward** = Vector3.forward  
*The forward direction in local space for the collider for this bone. [The direction that points along the length of the bone.]*

## Properties

- float **Bend** = 0f [get]  
The actual current bend value for the finger bone. (0 - no bend | 1 - full bend)
- bool **CanBend** [get]  
Returns true if this bone could be bent last frame, otherwise false.
- bool **BendBlockedByCollision** [get]  
Returns true if this finger bone's bend is blocked by a collision, otherwise false.
- int **BoneIndex** [get, set]  
The index of this bone in it's KinematicFingers bones array.
- [KinematicFinger](#) **Finger** [get, set]  
A reference to the [KinematicFinger](#) this [KinematicFinger.Bone](#) belongs to.
- Vector3 **TargetLocalPosition** [get, set]  
The localPosition target this finger bone is moving towards.
- Quaternion **TargetLocalRotation** [get, set]  
The localRotation target this finger bone is moving towards.
- bool **DisableGizmos** [get, set]  
Allows gizmos for the finger bone to be forcibly disabled.
- Vector3 **WorldColliderUp** [get]  
Returns the world space 'up' direction based on the colliderUp direction given in colliderTransforms local space. WARNING: If colliderTransform is null this will cause an error.
- Vector3 **WorldColliderForward** [get]  
Returns the world space 'forward' direction based on the colliderForward direction given in colliderTransforms local space. WARNING: If colliderTransform is null this will cause an error.
- Vector3 **WorldColliderOffset** [get]  
Returns the world space offset for this bone based on the colliderOffset given in colliderTransforms local space. WARNING: If colliderTransform is null this will cause an error.
- Vector3 **OffsetColliderPosition** [get]  
Returns the world space position of the colliderTransform's position offset by colliderOffset in world space. WARNING: If colliderTransform is null this will cause an error.

## Events

- DoubleActionRef< [Bone](#), bool, bool > **OverrideCollisionCheckDelegate**  
A delegate that allows collision checking for the finger bone to be overridden by subscribers. Arg0↔ : [KinematicFinger.Bone](#) - the [KinematicFinger.Bone](#) whose collisions are being checked. Arg1: ref bool - a reference to the boolean that determine the resulting collision check result (true means collision blocking, false means no collision blocking.) Arg2: ref bool - a reference to a boolean that determines whether or not to override the collision check in the first place (making this true lets the collision check system know to use the value of 'arg0' as the collision check result.)

### 5.7.1 Detailed Description

A finger bone.

### 5.7.2 Member Function Documentation

### 5.7.2.1 CheckIfBlockedByCollision()

```
bool AdaptiveHands.KinematicFinger.Bone.CheckIfBlockedByCollision ( )
```

Checks if this finger bone is blocked by a collision and returns true if this finger bone is blocked by a collision, otherwise false.

#### Returns

true if this finger bone is blocked by a collision, otherwise false.

### 5.7.2.2 CorrectBend()

```
bool AdaptiveHands.KinematicFinger.Bone.CorrectBend ( )
```

Corrects the Bend of the finger bone by checking all bend steps up til the current 'Bend' value.

#### Returns

true if the bend value was adjusted due to a collision, otherwise false.

### 5.7.2.3 GetCapsulePoints()

```
CapsulePoints AdaptiveHands.KinematicFinger.Bone.GetCapsulePoints ( )
```

Returns a [CapsulePoints](#) instance that contains the 2 points of this fingers capsule collider. NOTE: If colliderLength == 0 the same point (center point of the sphere collider) is returned as both point1 and point2. WARNING: This method will throw an error if you invoke it while colliderTransform is null.

CALCULATIONS: point1 = colliderCenter point2 = colliderCenter + (WorldColliderForward \* colliderLength)

#### Returns

a [CapsulePoints](#) instance that contains the 2 points of this fingers capsule collider.

### 5.7.2.4 MoveToBend()

```
void AdaptiveHands.KinematicFinger.Bone.MoveToBend (
    float pBend )
```

Moves the finger bone to the pBend position over time.

## Parameters

<i>pBend</i>	The bend factor. (0-1)
--------------	------------------------

**5.7.2.5 SnapToBend()**

```
void AdaptiveHands.KinematicFinger.Bone.SnapToBend (
    float pBend )
```

Snaps the finger bone to the pBend position instantly.

## Parameters

<i>pBend</i>	The bend factor. (0-1)
--------------	------------------------

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

- KinematicFinger.cs

**5.8 AdaptiveHands.BendStates.BendState.BoneEntry Class Reference****Public Attributes**

- [KinematicFinger](#) **finger**  
*A reference to the [KinematicFinger](#) the bone belongs to.*
- int **index**  
*The index of the bone.*
- [KinematicFinger.BoneTransform](#) **noBendInfo**  
*Transform information about the finger bone while at no bend*
- [KinematicFinger.BoneTransform](#) **fullBendInfo**  
*Transform information about the finger bone while at full bend*

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

- BendState.cs

**5.9 AdaptiveHands.Poser.HandPose.BoneEntry Class Reference****Public Attributes**

- [KinematicFinger](#) **finger**  
*A reference to the [KinematicFinger](#) the bone belongs to.*
- int **index**  
*The index of the bone.*
- float **bend**  
*The bend value of the bone.*

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

- HandPose.cs

## 5.10 AdaptiveHands.KinematicFinger.BoneTransform Struct Reference

### Public Attributes

- Vector3 **position**  
*The position of the bone.*
- Quaternion **rotation**  
*The rotation of the bone.*

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

- KinematicFinger.cs

## 5.11 AdaptiveHands.KinematicFinger.CapsulePoints Struct Reference

### Public Attributes

- Vector3 **point1**  
*The first point of the capsule (the center of the first sphere of the capsule).*
- Vector3 **point2**  
*The second point of the capsule (the center of the second sphere of the capsule).*

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

- KinematicFinger.cs

## 5.12 AdaptiveHands.Triggers.HandPoseArea.Entry Class Reference

### Public Attributes

- [HandPoser](#) **poser**  
*A reference to the HandPoser.*
- [HandPose](#) **cachedPose**  
*A reference to the cached HandPose for the hand, otherwise null.*

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

- HandPoseArea.cs

## 5.13 AdaptiveHands.Editor.AdaptiveHandsEditorSettings.ExportAnimationSettings Class Reference

### Public Attributes

- string **exportPath** = "Assets/"  
*The path to export animation clips to.*

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

- AdaptiveHandsEditorSettings.cs

## 5.14 AdaptiveHands.Editor.KinematicHandEditor.FingerBoneHandle Struct Reference

### Public Attributes

- [KinematicFinger.Bone](#) **bone**  
*A reference to the [KinematicFinger.Bone](#) the handle is for.*
- PrimitiveBoundsHandle **handle**  
*A reference to the the resizable bounds handle.*

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

- KinematicHandEditor.cs

## 5.15 AdaptiveHands.FingerBoneTransforms Class Reference

A class that holds Transform references to all possible bones in a finger.

### Public Attributes

- Transform **proximal**  
*The proximal bone of the finger.*
- Transform **intermediate**  
*The intermediate bone of the finger.*
- Transform **distal**  
*The distal bone of the finger.*

### 5.15.1 Detailed Description

A class that holds Transform references to all possible bones in a finger.

Author: Mathew Aloisio

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

- FingerBoneTransforms.cs

## 5.16 AdaptiveHands.Editor.HandSymmetryToolWindow.FlipAxes Class Reference

### Public Attributes

- bool **x**  
*Should the x axis be flipped?*
- bool **y**  
*Should the y axis be flipped?*
- bool **z**  
*Should the z axis be flipped?*

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

- HandSymmetryToolWindow.cs

## 5.17 AdaptiveHands.Editor.PoseSymmetryToolWindow.FlipAxes Class Reference

### Public Attributes

- bool **x**  
*Should the x axis be flipped?*
- bool **y**  
*Should the y axis be flipped?*
- bool **z**  
*Should the z axis be flipped?*

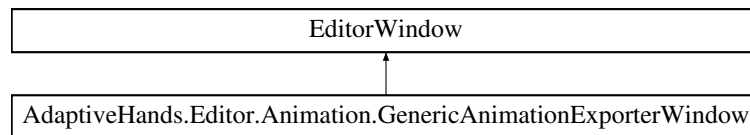
The documentation for this class was generated from the following file:

- PoseSymmetryToolWindow.cs

## 5.18 AdaptiveHands.Editor.Animation.GenericAnimationExporterWindow Class Reference

A tool designed to make it easy to export generic hand animations.

Inheritance diagram for AdaptiveHands.Editor.Animation.GenericAnimationExporterWindow:



### Static Public Member Functions

- static void **Open** ()

### Events

- static Action< [GenericAnimationExporterWindow](#) > **Initialized**  
*An event that is invoked when the [GenericAnimationExporterWindow](#) is intialized.*

#### 5.18.1 Detailed Description

A tool designed to make it easy to export generic hand animations.

Author: Mathew Aloisio

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

- GenericAnimationExporterWindow.cs

## 5.19 AdaptiveHands.HandBoneTransforms Class Reference

A class that holds Transform references to all possible bones in a hand.

### Public Attributes

- [FingerBoneTransforms](#) **thumb**  
*The bones that make up a human avatar thumb.*
- [FingerBoneTransforms](#) **index**  
*The bones that make up a human avatar index finger.*
- [FingerBoneTransforms](#) **middle**  
*The bones that make up a human avatar middle finger.*
- [FingerBoneTransforms](#) **ring**  
*The bones that make up a human avatar ring finger.*
- [FingerBoneTransforms](#) **pinky**  
*The bones that make up a human avatar pinky finger.*



### 5.19.1 Detailed Description

A class that holds Transform references to all possible bones in a hand.

Author: Mathew Aloisio

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

- HandBoneTransforms.cs

## 5.20 AdaptiveHands.Editor.AdaptiveHandsEditorSettings.HandDiagramSettings Class Reference

### Public Attributes

- Texture **diagram**  
*The color to render hand bone collider gizmos with.*
- Color **distalColor** = new Color(.976f, .745f, .631f, 1f)  
*The color of the distal bones in the hand bone diagram.*
- Color **intermediateColor** = new Color(.506f, .729f, .878f, 1f)  
*The color of the intermediate bones in the hand bone diagram.*
- Color **proximalColor** = new Color(.808f, .906f, .678f, 1f)  
*The color of the proximal bones in the hand bone diagram.*

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

- AdaptiveHandsEditorSettings.cs

## 5.21 AdaptiveHands.Editor.AdaptiveHandsEditorSettings.HandleSettings Class Reference

### Public Attributes

- Color **colliderColor** = Color.white  
*The color to use for collider handles.*

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

- AdaptiveHandsEditorSettings.cs

## 5.22 AdaptiveHands.Poser.HandPose Class Reference

A hand pose.

## Classes

- class [BoneEntry](#)

## Public Member Functions

- **HandPose** ([HandPose](#) pOther)
- [BoneEntry](#)[] **CopyHandPoseData** ()  
*Generates and returns a deep copy of the 'bendData' array for this [HandPose](#).*

## Public Attributes

- string **name**  
*The name of the hand pose.*
- [BoneEntry](#)[] **bendData**  
*The bend data for the hand pose.*

### 5.22.1 Detailed Description

A hand pose.

### 5.22.2 Member Function Documentation

#### 5.22.2.1 CopyHandPoseData()

```
BoneEntry[] AdaptiveHands.Poser.HandPose.CopyHandPoseData ( )
```

Generates and returns a deep copy of the 'bendData' array for this [HandPose](#).

#### Returns

a deep copy of the 'bendData' array for this [HandPose](#).

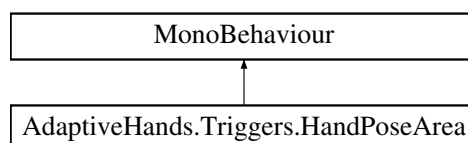
The documentation for this class was generated from the following file:

- HandPose.cs

## 5.23 AdaptiveHands.Triggers.HandPoseArea Class Reference

A simple component that uses the 'OnTriggerEnter' and 'OnTriggerExit' callbacks to set a state on a HandPoser that enters a trigger and clears it when it exits the trigger.

Inheritance diagram for AdaptiveHands.Triggers.HandPoseArea:



## Classes

- class [Entry](#)

## Public Types

- enum **BendExitMode**

## Public Member Functions

- bool [IsPoserInArea](#) ([HandPoser](#) pPoser)  
*Returns true if pPoser is in the area, otherwise false.*

## Public Attributes

- string **poseName**  
*The name of the poseto attempt to put the HandPoser into when it enters the bend state area..*
- bool **checkRigidbody**  
*If not found on the triggering Collider*
- bool **checkTriggerStay**  
*An option that allows for triggers to be considered as*
- bool **clearOnExit** = true  
*Should the set pose be cleared on exit from the area?*
- BendExitMode **bendExitMode** = BendExitMode.Restore  
*Should the finger bend for the hand be zero*
- [HandPoseAreaUnityEvent](#) **PoserEnteringArea**  
*An event that is invoked just before a HandPoser enters the area.*  
*lnArg*
- [HandPoseAreaUnityEvent](#) **PoserEnteredArea**  
*An event that is invoked whenever a HandPoser enters the area.*  
*lnArg*
- [HandPoseAreaUnityEvent](#) **PoserExitingArea**  
*An event that is invoked just before a HandPoser exits the area.*  
*lnArg*
- [HandPoseAreaUnityEvent](#) **PoserExitedArea**  
*An event that is invoked whenever a HandPoser exits the area.*  
*lnArg*

## Events

- ActionRef< [HandPoseArea](#), [HandPoser](#), bool > **BlockHandPoseDelegate**  
*A C# event delegate that provides the opportunity for external scripts to block the hand pose area from posing under certain conditions. Arg0: [HandPoseArea](#) - The [HandPoseArea](#) doing the posing. Arg1: [HandPoser](#) - The [HandPoser](#) being posed. Arg2: ref bool - If true the hand pose area is blocked, otherwise if false the pose area will function normally.*

### 5.23.1 Detailed Description

A simple component that uses the 'OnTriggerEnter' and 'OnTriggerExit' callbacks to set a state on a HandPoser that enters a trigger and clears it when it exits the trigger.

Author: Mathew Aloisio

### 5.23.2 Member Function Documentation

#### 5.23.2.1 IsPoserInArea()

```
bool AdaptiveHands.Triggers.HandPoseArea.IsPoserInArea (
    HandPoser pPoser )
```

Returns true if pPoser is in the area, otherwise false.

#### Parameters

<i>pPoser</i>	
---------------	--

#### Returns

true if pPoser is in the area, otherwise false.

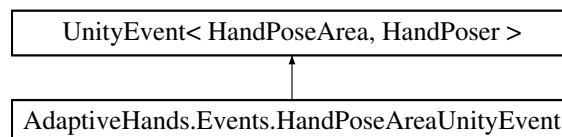
The documentation for this class was generated from the following file:

- HandPoseArea.cs

## 5.24 AdaptiveHands.Events.HandPoseAreaUnityEvent Class Reference

Arg0: HandPoseArea - The HandPoseArea involved in the event. Arg1: HandPoser - The HandPoser involved in the event.

Inheritance diagram for AdaptiveHands.Events.HandPoseAreaUnityEvent:



### 5.24.1 Detailed Description

Arg0: HandPoseArea - The HandPoseArea involved in the event. Arg1: HandPoser - The HandPoser involved in the event.

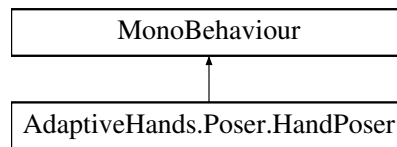
The documentation for this class was generated from the following file:

- HandPoseAreaUnityEvent.cs

## 5.25 AdaptiveHands.Poser.HandPoser Class Reference

A component that allows poses to be saved and loaded for a hand.

Inheritance diagram for AdaptiveHands.Poser.HandPoser:



### Public Member Functions

- void **TrySetBendTargetsToCurrentPose** ()  
*Invokes [SetBendTargetsToCurrentPose\(\)](#) but only if the 'BlockPoseDelegate' does not override it.*
- void **SetBendTargetsToCurrentPose** ()  
*Sets the bend targets of the Hands finger bones to the current pose.*
- void **SetBendTargetsToPose** ([HandPose](#) pPose)  
*Sets the bend targets of the Hands finger bones to the given pose, pPose.*
- void **SetBendTargetsToPoseIndex** (int pIndex)  
*Sets the bend targets of the Hands finger bones to the given pose index.*
- void **SetPose** (string pPoseName)  
*Sets the poser to the pose with the given name. If not found or pPoseName is null the pose is cleared.*
- void **SetPoseByIndex** (int pIndex)  
*Sets the pose by index.*
- void **ClearPose** ()  
*Clears the current pose.*
- void **SavePose** (string pPoseName)  
*Saves the current Hand state as a pose with the given name pPoseName. Overwrites existing entries.*
- void **SavePoseByIndex** (int pIndex)  
*Saves the current Hand state in the pose at the given index. (Only usable for overwriting existing poses.)*
- void **DeletePoseByName** (string pPoseName)  
*Deletes a pose by name.*
- void **DeletePoseByIndex** (int pIndex)  
*Deletes a pose by index.*
- [HandPose](#) **GetPoseByName** (string pPoseName)  
*Returns the [HandPose](#) with the given name, or null if not found.*
- int **GetPoseIndexByName** (string pPoseName)  
*Returns the index of the pose with the given name, or POSE\_NONE (-1) if not found.*
- [HandPose](#) **GetCurrentHandPose** ()  
*Returns the current hand state as a [HandPose](#) or null if failed to generate.*
- [HandPose](#) **GetPoseByIndex** (int pIndex)  
*Returns the [HandPose](#) at the given index.*
- void **OverwritePoses** (List< [HandPose](#) > pPoses)  
*Overwrites the poses in this components 'poses' list with the given poses, pPoses.*

## Public Attributes

- ActionRef< [HandPoser](#), bool > **BlockPoseDelegate**

*a C# delegate event that provides a reference to a boolean that allows you to specify whether or not a pose should be set. Arg0: [HandPoser](#) - The poser trying to set a hand pose. Arg1: ref bool - Should the pose be blocked? If true blocks posing, otherwise has no effect if false.*

## Static Public Attributes

- const int **POSE\_NONE** = -1

*The value that represents no pose index.*

## Properties

- int **CurrentPoseIndex** [get]

*The current pose index the poser is in, or POSE\_NONE (-1) if not in any pose.*

- int **PoseCount** [get]

*Returns the number of poses this component has registered.*

- [KinematicHand](#) **Hand** [get]

*Returns the reference to the [KinematicHand](#) this poser belongs to.*

### 5.25.1 Detailed Description

A component that allows poses to be saved and loaded for a hand.

Author: Mathew Aloisio

### 5.25.2 Member Function Documentation

#### 5.25.2.1 DeletePoseByIndex()

```
void AdaptiveHands.Poser.HandPoser.DeletePoseByIndex (
    int pIndex )
```

Deletes a pose by index.

#### Parameters

<i>pIndex</i>	
---------------	--

### 5.25.2.2 DeletePoseByName()

```
void AdaptiveHands.Poser.HandPoser.DeletePoseByName (
    string pPoseName )
```

Deletes a pose by name.

#### Parameters

<i>pPoseName</i>	
------------------	--

### 5.25.2.3 GetCurrentHandPose()

```
HandPose AdaptiveHands.Poser.HandPoser.GetCurrentHandPose ( )
```

Returns the current hand state as a [HandPose](#) or null if failed to generate.

#### Returns

the current hand state as a [HandPose](#) or null if failed to generate.

### 5.25.2.4 GetPoseByIndex()

```
HandPose AdaptiveHands.Poser.HandPoser.GetPoseByIndex (
    int pIndex )
```

Returns the [HandPose](#) at the given index.

#### Parameters

<i>pIndex</i>	
---------------	--

#### Returns

the [HandPose](#) at the given index.

### 5.25.2.5 GetPoseByName()

```
HandPose AdaptiveHands.Poser.HandPoser.GetPoseByName (
    string pPoseName )
```

Returns the [HandPose](#) with the given name, or null if not found.

**Parameters**

<i>pPoseName</i>	
------------------	--

**Returns**

the [HandPose](#) with the given name, or null if not found.

**5.25.2.6 GetPoseIndexByName()**

```
int AdaptiveHands.Poser.HandPoser.GetPoseIndexByName (
    string pPoseName )
```

Returns the index of the pose with the given name, or POSE\_NONE (-1) if not found.

**Parameters**

<i>pPoseName</i>	
------------------	--

**Returns**

an int representing the index of the pose with the given name, or POSE\_NONE (-1) if not found.

**5.25.2.7 OverwritePoses()**

```
void AdaptiveHands.Poser.HandPoser.OverwritePoses (
    List< HandPose > pPoses )
```

Overwrites the poses in this components 'poses' list with the given poses, pPoses.

**Parameters**

<i>pPoses</i>	
---------------	--

**5.25.2.8 SavePose()**

```
void AdaptiveHands.Poser.HandPoser.SavePose (
    string pPoseName )
```

Saves the current Hand state as a pose with the given name pPoseName. Overwrites existing entries.



## Parameters

<i>pPoseName</i>	
------------------	--

**5.25.2.9 SavePoseByIndex()**

```
void AdaptiveHands.Poser.HandPoser.SavePoseByIndex (
    int pIndex )
```

Saves the current Hand state in the pose at the given index. (Only usable for overwriting existing poses.)

## Parameters

<i>pIndex</i>	
---------------	--

**5.25.2.10 SetBendTargetsToPose()**

```
void AdaptiveHands.Poser.HandPoser.SetBendTargetsToPose (
    HandPose pPose )
```

Sets the bend targets of the Hands finger bones to the given pose, pPose.

## Parameters

<i>pPose</i>	The <a href="#">HandPose</a> to set the pose to.
--------------	--

**5.25.2.11 SetBendTargetsToPoseIndex()**

```
void AdaptiveHands.Poser.HandPoser.SetBendTargetsToPoseIndex (
    int pIndex )
```

Sets the bend targets of the Hands finger bones to the given pose index.

## Parameters

<i>pIndex</i>	The index of the <a href="#">HandPose</a> to set the pose to.
---------------	---

### 5.25.2.12 SetPose()

```
void AdaptiveHands.Poser.HandPoser.SetPose (
    string pPoseName )
```

Sets the poser to the pose with the given name. If not found or pPoseName is null the pose is cleared.

#### Parameters

<i>pPoseName</i>	
------------------	--

### 5.25.2.13 SetPoseByIndex()

```
void AdaptiveHands.Poser.HandPoser.SetPoseByIndex (
    int pIndex )
```

Sets the pose by index.

#### Parameters

<i>pIndex</i>	
---------------	--

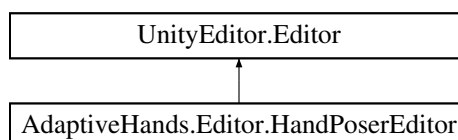
The documentation for this class was generated from the following file:

- HandPoser.cs

## 5.26 AdaptiveHands.Editor.HandPoserEditor Class Reference

A custom inspector for the HandPoser component.

Inheritance diagram for AdaptiveHands.Editor.HandPoserEditor:



### Public Member Functions

- override void **OnInspectorGUI** ()

### 5.26.1 Detailed Description

A custom inspector for the HandPoser component.

Author: Mathew Aloisio

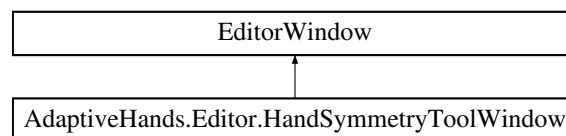
The documentation for this class was generated from the following file:

- HandPoserEditor.cs

## 5.27 AdaptiveHands.Editor.HandSymmetryToolWindow Class Reference

A window where adaptive hand components and settings can be copied from a symmetrical hand.

Inheritance diagram for AdaptiveHands.Editor.HandSymmetryToolWindow:



### Classes

- class [FlipAxes](#)

### Public Member Functions

- void [SymmetrizeHands](#) ([KinematicHand](#) pSourceHand, [KinematicHand](#) pDestinationHand, bool pFlipColliderUp, bool pFlipColliderForward)  
Symmetrizes pSourceHand and pDestinationHand by copying all relevant data from pSourceHand to pDestinationHand.

### Public Attributes

- [KinematicHand](#) sourceHand  
The source [KinematicHand](#) to copy from.
- [KinematicHand](#) destinationHand  
The destination [KinematicHand](#) to copy to.
- bool flipColliderUp = true  
Should the collider up direction be flipped for the destination hands finger bones?
- bool flipColliderForward = true  
Should the collider forward direction be flipped for the destination hands finger bones?
- [FlipAxes](#) flipColliderAxes = new [FlipAxes](#)() { x = true, y = false, z = true }  
What collider axes should be flipped on the destination hands fingers?
- [FlipAxes](#) flipBendAxes = new [FlipAxes](#)() { x = true, y = true, z = true }  
What bend info axes should be flipped on the destination hands fingers?
- [FlipAxes](#) flipBendAngleAxes = new [FlipAxes](#)() { x = false, y = false, z = false }  
What bend info angle axes should be flipped on the destination hands fingers?

## Events

- static Action< [HandSymmetryToolWindow](#) > **Initialized**

A C# delegate event that is invoked when the [HandSymmetryToolWindow](#) is intialized.

### 5.27.1 Detailed Description

A window where adaptive hand components and settings can be copied from a symmetrical hand.

Author: Mathew Aloisio

### 5.27.2 Member Function Documentation

#### 5.27.2.1 SymmetrizeHands()

```
void AdaptiveHands.Editor.HandSymmetryToolWindow.SymmetrizeHands (
    KinematicHand pSourceHand,
    KinematicHand pDestinationHand,
    bool pFlipColliderUp,
    bool pFlipColliderForward )
```

Symmetrizes pSourceHand and pDestinationHand by copying all relevant data from pSourceHand to pDestination↔  
Hand.

#### Parameters

<i>pSourceHand</i>	
<i>pDestinationHand</i>	
<i>pFlipColliderUp</i>	Should the finger bones collider up direction be flipped?
<i>pFlipColliderForward</i>	Should the finger bones collider forward direction be flipped?

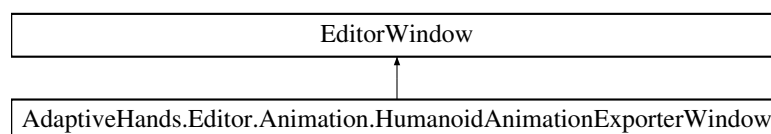
The documentation for this class was generated from the following file:

- HandSymmetryToolWindow.cs

## 5.28 AdaptiveHands.Editor.Animation.HumanoidAnimationExporter↔ Window Class Reference

A tool designed to make it easy to export humanoid hand animations.

Inheritance diagram for AdaptiveHands.Editor.Animation.HumanoidAnimationExporterWindow:



## Static Public Member Functions

- static void **Open** ()

## Events

- static Action< [HumanoidAnimationExporterWindow](#) > **Initialized**  
*An event that is invoked when the HandAnimationExporterWindow is initialized.*

### 5.28.1 Detailed Description

A tool designed to make it easy to export humanoid hand animations.

Author: Mathew Aloisio

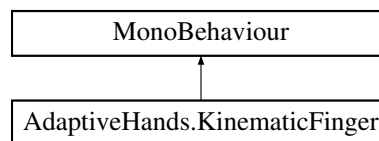
The documentation for this class was generated from the following file:

- HumanoidAnimationExporterWindow.cs

## 5.29 AdaptiveHands.KinematicFinger Class Reference

Holds information about a finger from a [KinematicHand](#).

Inheritance diagram for AdaptiveHands.KinematicFinger:



## Classes

- class [Bone](#)  
*A finger bone.*
- struct [BoneTransform](#)
- struct [CapsulePoints](#)

## Public Member Functions

- void **UpdateBend** ()  
*Updates the bend state for all bones in the finger.*
- void **CalculateAverageBend** ()  
*(Re)calculates 'AverageBend' using the average of all '[Bone.Bend](#)' values for all finger bones in this finger.*
- void **ZeroCurrentBend** ()  
*Zeros and snaps to the zero'd current bend for all bones in the finger.*
- void **SetUnbendObstructed** (bool pUnbendObstructed)  
*A public method that allows the 'unbendObstructed' field of the [KinematicFinger](#) to be set. Useful for use with Unity editor events.*
- void **ValidateBones** ()  
*For editor-only purposes. Ensures all child finger bones know their finger reference.*

## Public Attributes

- bool **unbendObstructed** = true  
*Automatically unbend an obstructed finger?*
- LayerMask **ignoreBendLayers**  
*A LayerMask of layers that the finger should ignore while bending.*
- int **bendSteps** = 24  
*The number of*
- [Bone\[\]](#) **bones**  
*An array of KinematicFinger.Bones that make up the finger.*
- float **fingerMoveRate** = 0.1f  
*The rate at which this hands fingers move to their target position at in units per second.*
- float **fingerRotateRate** = 360f  
*The rate at which this hands fingers rotates to their target rotation at in degrees per second.*

## Properties

- float **AverageBend** [get]  
*Returns the average 'Bend' value for all bones in this finger combined as of the last call to 'UpdateBend()'.*
- static Color **BoneGizmoColor** = new Color(1, 0, 0, 0.25f) [get, set]  
*The Color used to render finger bone gizmos.*

### 5.29.1 Detailed Description

Holds information about a finger from a [KinematicHand](#).

Author: Mathew Aloisio

### 5.29.2 Member Function Documentation

#### 5.29.2.1 SetUnbendObstructed()

```
void AdaptiveHands.KinematicFinger.SetUnbendObstructed (
    bool pUnbendObstructed )
```

A public method that allows the 'unbendObstructed' field of the [KinematicFinger](#) to be set. Useful for use with Unity editor events.

#### Parameters

<i>pUnbendObstructed</i>	
--------------------------	--

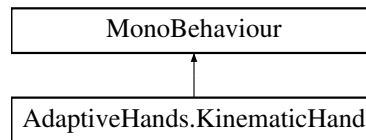
The documentation for this class was generated from the following file:

- KinematicFinger.cs

## 5.30 AdaptiveHands.KinematicHand Class Reference

Implements adaptive hand behaviour for a hand with fingers kinematically. This component is only responsible for the hands visuals.

Inheritance diagram for AdaptiveHands.KinematicHand:



### Public Types

- enum **UpdateMode**

### Public Member Functions

- void **UpdateHandFullBend** ()  
*Forces the hand to simulate an update enough times to complete a full bend.*
- void **ZeroAllFingerCurrentBend** ()  
*Immediately zeroes the current finger bend (and snaps to it) for all fingers in the hand.*
- void **SetAllFingerBendToCurrent** ()  
*Overrides the target bend value for all bones in all fingers of the hand with their current bend value.*
- void **SetAllFingerBend** (float pClosedness)  
*Sets all finger bone bend targets to pClosedness.*
- void **ZeroFingerCurrentBend** ([KinematicFinger](#) pFinger)  
*Immediately zeroes the current finger bend (and snaps to it) for all fingers in the hand.*
- void **SetFingerBendToCurrent** ([KinematicFinger](#) pFinger)  
*Overrides the target bend value for all bones in pFinger with their current bend value.*
- void **SetFingerBend** ([KinematicFinger](#) pFinger, float pClosedness)  
*Sets all finger bone bend targets to pClosedness.*
- void **ZeroFingerBoneCurrentBend** ([KinematicFinger.Bone](#) pBone)  
*Immediately zeroes the current finger bone bend (and snaps to it) for the specified finger bone, pBone.*
- void **SetFingerBoneBendToCurrent** ([KinematicFinger.Bone](#) pBone)  
*Overrides the target bend value for pBone with the current bend value.*
- void **SetFingerBoneBend** ([KinematicFinger.Bone](#) pBone, float pClosedness)  
*Sets all finger bone bend targets to pClosedness.*
- void **SetUnbendObstructed** (bool pUnbendObstructed)  
*Sets the 'unbendObstructed' field for all KinematicFingers that make up the hand at the same time.*
- void **UpdateHand** ()  
*Updates the hand, including the bend state for all fingers that are part of the hand.*

### Public Attributes

- UpdateMode **updateMode** = UpdateMode.Update  
*Controls when the hand is updated.*  
*\nManual*
- [KinematicFinger](#)[] **fingers**  
*An array of [KinematicFinger](#) components that define the fingers that make up the hand.*

## Properties

- float **AverageFingerBend** [get]

*The average actual finger bend value for all finger bones that make up this hand as calculated in the last call to 'UpdateHand()'. Non-enabled finger components are ignored.*

### 5.30.1 Detailed Description

Implements adaptive hand behaviour for a hand with fingers kinematically. This component is only responsible for the hands visuals.

Author: Mathew Aloisio

### 5.30.2 Member Function Documentation

#### 5.30.2.1 SetAllFingerBend()

```
void AdaptiveHands.KinematicHand.SetAllFingerBend (
    float pClosedness )
```

Sets all finger bone bend targets to pClosedness.

##### Parameters

<i>pClosedness</i>	The close (bend) factor for the hand's fingers. (0-1)
--------------------	---

#### 5.30.2.2 SetFingerBend()

```
void AdaptiveHands.KinematicHand.SetFingerBend (
    KinematicFinger pFinger,
    float pClosedness )
```

Sets all finger bone bend targets to pClosedness.

##### Parameters

<i>pFinger</i>	The <a href="#">KinematicFinger</a> to set the bend values for.
<i>pClosedness</i>	The close (bend) factor for the finger. (0-1)



### 5.30.2.3 SetFingerBendToCurrent()

```
void AdaptiveHands.KinematicHand.SetFingerBendToCurrent (
    KinematicFinger pFinger )
```

Overrides the target bend value for all bones in pFinger with their current bend value.

#### Parameters

<i>pFinger</i>	
----------------	--

### 5.30.2.4 SetFingerBoneBend()

```
void AdaptiveHands.KinematicHand.SetFingerBoneBend (
    KinematicFinger.Bone pBone,
    float pClosedness )
```

Sets all finger bone bend targets to pClosedness.

#### Parameters

<i>pBone</i>	The <a href="#">KinematicFinger.Bone</a> to set the bend value for.
<i>pClosedness</i>	The close (bend) factor for the finger bone. (0-1)

### 5.30.2.5 SetFingerBoneBendToCurrent()

```
void AdaptiveHands.KinematicHand.SetFingerBoneBendToCurrent (
    KinematicFinger.Bone pBone )
```

Overrides the target bend value for pBone with the current bend value.

#### Parameters

<i>pBone</i>	
--------------	--

### 5.30.2.6 SetUnbendObstructed()

```
void AdaptiveHands.KinematicHand.SetUnbendObstructed (
    bool pUnbendObstructed )
```

Sets the 'unbendObstructed' field for all KinematicFingers that make up the hand at the same time.

## Parameters

<i>pUnbendObstructed</i>	
--------------------------	--

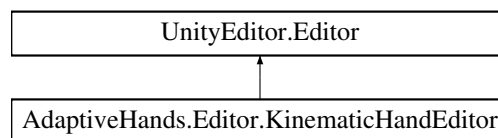
The documentation for this class was generated from the following file:

- KinematicHand.cs

## 5.31 AdaptiveHands.Editor.KinematicHandEditor Class Reference

A custom inspector for KinematicHands.

Inheritance diagram for AdaptiveHands.Editor.KinematicHandEditor:



### Classes

- struct [FingerBoneHandle](#)

### Public Member Functions

- override void **OnInspectorGUI** ()
- void [SetAllFingerBend](#) ([KinematicHand](#) pHand, float pBend)  
*Invokes pHand.SetAllFingerBend(pBend) and performs other editor-related tasks.*
- void [SetFingerBend](#) ([KinematicHand](#) pHand, [KinematicFinger](#) pFinger, float pBend)  
*Invokes pHand.SetFingerBend(pFinger, pBend) and performs other editor-related tasks.*
- void [StoreOpenedHandPosition](#) ([KinematicHand](#) pHand)  
*Stores the finger positions and rotations for the opened hand position.*
- void [StoreClosedHandPosition](#) ([KinematicHand](#) pHand)  
*Stores the finger positions and rotations for the closed hand position.*
- void [StartEditingFingerBone](#) ([KinematicFinger.Bone](#) pBone)  
*Starts editing the specified finger bone using handles.*
- void **StopEditingFingerBone** ()  
*Stops editing any finger bone and cleans up the handles.*
- void [DrawPoseEditor](#) (bool pShowFingerBoneEdit=true)  
*Draws the pose editor for the [KinematicHand](#). This may only be invoked in editor GUI methods.*
- void **DrawFingerBoneColliderHandle** ()  
*Draws the modifiable handle for the finger bone collider. NOTE: This must be called inside of an 'OnSceneGUI' method or any method where Camera.current is non-null.*

### 5.31.1 Detailed Description

A custom inspector for KinematicHands.

Author: Mathew Aloisio

### 5.31.2 Member Function Documentation

#### 5.31.2.1 DrawPoseEditor()

```
void AdaptiveHands.Editor.KinematicHandEditor.DrawPoseEditor (
    bool pShowFingerBoneEdit = true )
```

Draws the pose editor for the [KinematicHand](#). This may only be invoked in editor GUI methods.

Parameters

<i>pShowFingerBoneEdit</i>	Should the bone collider edit buttons be drawn? (True - yes   False - no)
----------------------------	---

#### 5.31.2.2 SetAllFingerBend()

```
void AdaptiveHands.Editor.KinematicHandEditor.SetAllFingerBend (
    KinematicHand pHand,
    float pBend )
```

Invokes pHand.SetAllFingerBend(pBend) and performs other editor-related tasks.

Parameters

<i>pHand</i>	
<i>pBend</i>	

#### 5.31.2.3 SetFingerBend()

```
void AdaptiveHands.Editor.KinematicHandEditor.SetFingerBend (
    KinematicHand pHand,
    KinematicFinger pFinger,
    float pBend )
```

Invokes pHand.SetFingerBend(pFinger, pBend) and performs other editor-related tasks.

## Parameters

<i>pHand</i>	
<i>pFinger</i>	
<i>pBend</i>	

**5.31.2.4 StartEditingFingerBone()**

```
void AdaptiveHands.Editor.KinematicHandEditor.StartEditingFingerBone (
    KinematicFinger.Bone pBone )
```

Starts editing the specified finger bone using handles.

## Parameters

<i>pBone</i>	
--------------	--

**5.31.2.5 StoreClosedHandPosition()**

```
void AdaptiveHands.Editor.KinematicHandEditor.StoreClosedHandPosition (
    KinematicHand pHand )
```

Stores the finger positions and rotations for the closed hand position.

## Parameters

<i>pHand</i>	
--------------	--

**5.31.2.6 StoreOpenedHandPosition()**

```
void AdaptiveHands.Editor.KinematicHandEditor.StoreOpenedHandPosition (
    KinematicHand pHand )
```

Stores the finger positions and rotations for the opened hand position.

## Parameters

<i>pHand</i>	
--------------	--

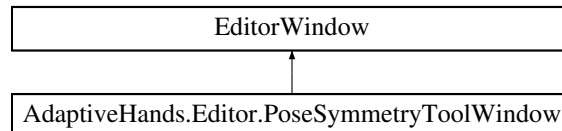
The documentation for this class was generated from the following file:

- [KinematicHandEditor.cs](#)

## 5.32 AdaptiveHands.Editor.PoseSymmetryToolWindow Class Reference

A window where adaptive hand components and settings from HnadPoser or BendStateSwapper components can be copied from a symmetrical hand.

Inheritance diagram for AdaptiveHands.Editor.PoseSymmetryToolWindow:



### Classes

- class [FlipAxes](#)

### Public Member Functions

- void [SymmetrizeHandPosers](#) ([HandPoser](#) pSourcePoser, [HandPoser](#) pDestinationPoser)  
Symmetrizes pSourcePoser and pDestinationPoser by copying all relevant data from pSourcePoser to pDestinationPoser.
- void [SymmetrizeBendStateSwappers](#) ([BendStateSwapper](#) pSourceSwapper, [BendStateSwapper](#) pDestinationSwapper)  
Symmetrizes pSourceSwapper and pDestinationSwapper by copying all relevant data from pSourceSwapper to pDestinationSwapper.

### Public Attributes

- [FlipAxes](#) **flipBendAxes** = new [FlipAxes](#)() { x = false, y = false, z = false }  
What bend info axes should be flipped on the destination hands fingers?
- [FlipAxes](#) **flipBendAngleAxes** = new [FlipAxes](#)() { x = false, y = false, z = false }  
What bend info angle axes should be flipped on the destination hands fingers?
- [HandPoser](#) **sourceHandPoser**  
The source HandPoser to copy from.
- [HandPoser](#) **destinationHandPoser**  
The destination [KinematicHand](#) to copy to.
- [BendStateSwapper](#) **sourceBendSwapper**  
The source BendStateSwapper to copy from.
- [BendStateSwapper](#) **destinationBendSwapper**  
The destination [KinematicHand](#) to copy to.

### Events

- static Action< [PoseSymmetryToolWindow](#) > **Initialized**  
A C# delegate event that is invoked when the [PoseSymmetryToolWindow](#) is initialized.

### 5.32.1 Detailed Description

A window where adaptive hand components and settings from HnadPoser or BendStateSwapper components can be copied from a symmetrical hand.

Author: Mathew Aloisio

### 5.32.2 Member Function Documentation

#### 5.32.2.1 SymmetrizeBendStateSwappers()

```
void AdaptiveHands.Editor.PoseSymmetryToolWindow.SymmetrizeBendStateSwappers (
    BendStateSwapper pSourceSwapper,
    BendStateSwapper pDestinationSwapper )
```

Symmetrizes pSourceSwapper and pDestinationSwapper by copying all relevant data from pSourceSwapper to pDestinationSwapper.

Parameters

<i>pSourceSwapper</i>	
<i>pDestinationSwapper</i>	

#### 5.32.2.2 SymmetrizeHandPosers()

```
void AdaptiveHands.Editor.PoseSymmetryToolWindow.SymmetrizeHandPosers (
    HandPoser pSourcePoser,
    HandPoser pDestinationPoser )
```

Symmetrizes pSourcePoser and pDestinationPoser by copying all relevant data from pSourcePoser to pDestinationPoser.

Parameters

<i>pSourcePoser</i>	
<i>pDestinationPoser</i>	

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

- PoseSymmetryToolWindow.cs

## 5.33 AdaptiveHands.Editor.EditorSymmetryUtility.ReplacementEntry Class Reference

### Public Member Functions

- **ReplacementEntry** (string pLeftText, string pRightText, ReplaceMode pReplaceMode)

### Public Attributes

- string **leftText**  
*The left side symmetry identifier.*
- string **rightText**  
*The right side symmetry identifier.*
- ReplaceMode **replaceMode**  
*The ReplaceMode to use when replacing text.*

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

- EditorSymmetryUtility.cs

## 5.34 AdaptiveHands.Editor.AdaptiveHandsEditorSettings.SettingsData Class Reference

Defines the settings for the AdaptiveHandsEditorSettings static class.

### Public Attributes

- [HandDiagramSettings](#) **handDiagramSettings**  
*The settings to use when displaying the hand diagram.*
- [HandleSettings](#) **handleSettings**  
*The settings to use for handles relating to adaptive hands.*
- [ExportAnimationSettings](#) **exportAnimationSettings**  
*The settings to use when exporting animations.*

### 5.34.1 Detailed Description

Defines the settings for the AdaptiveHandsEditorSettings static class.

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

- AdaptiveHandsEditorSettings.cs





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