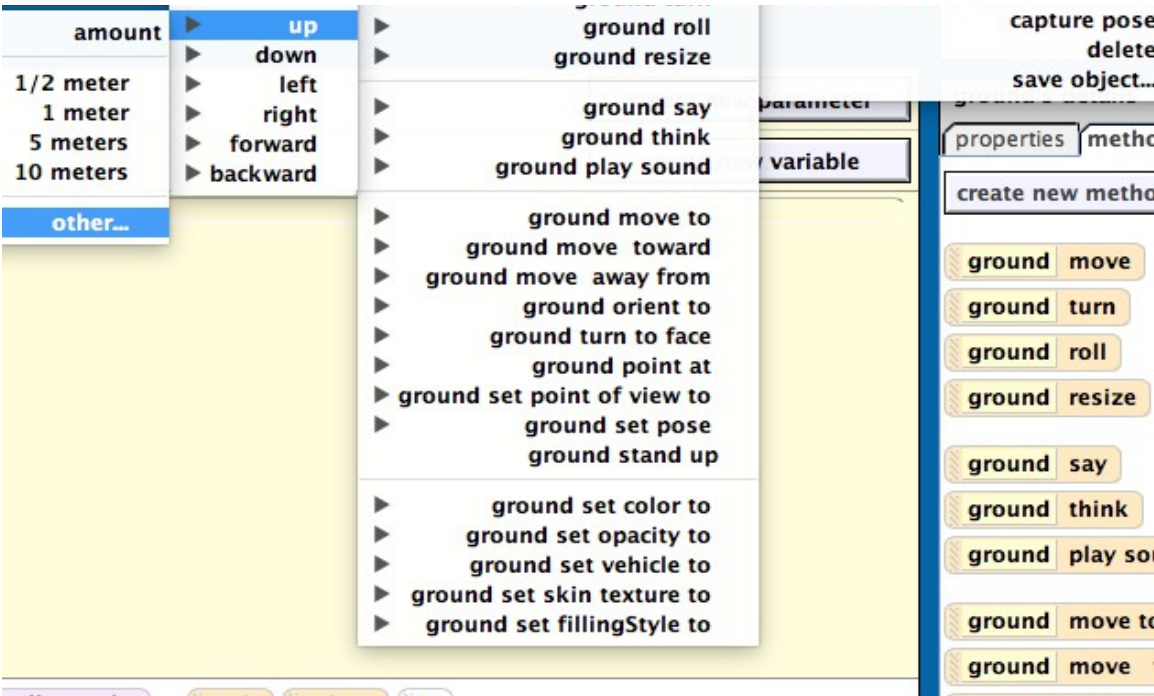


A collection of bugs and fixes related to the changes for Arabic Alice.

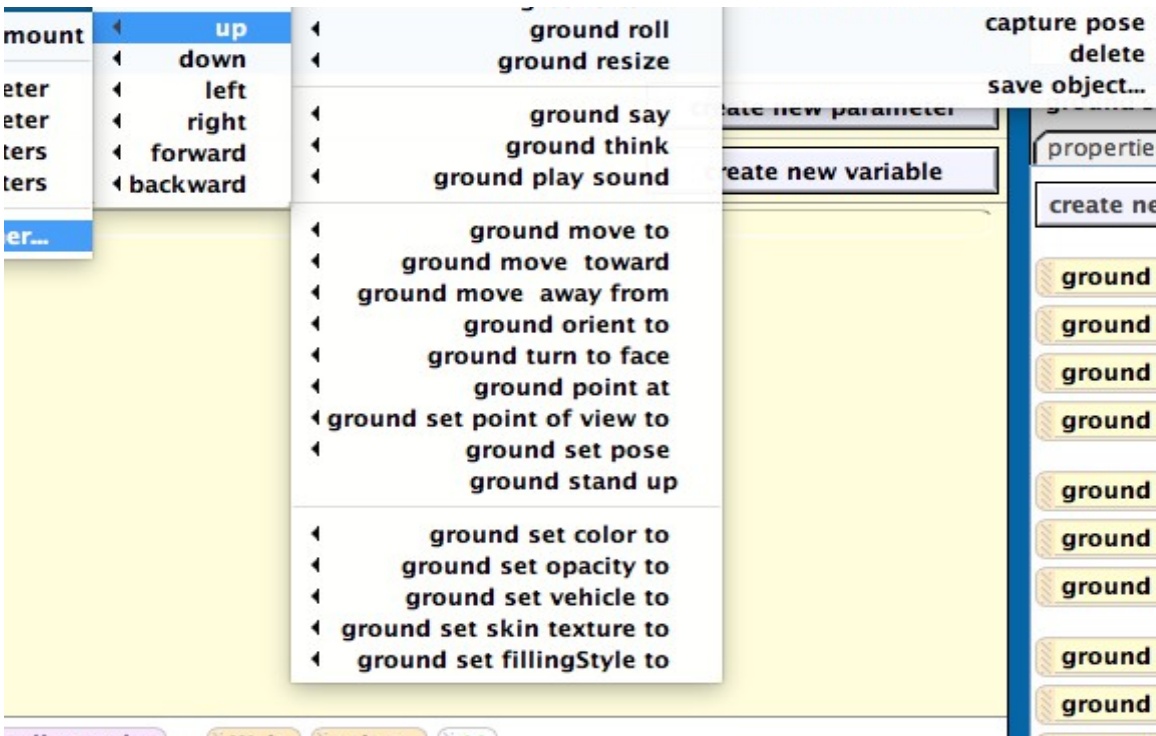
Flip Menu arrows – Arrow does not flip when using the Apple Look and Feel.
Set the Menu.arrowIcon to use Windows default Look and Feel.

```
AuthoringTool line 574 javax.swing.UIManager.getLookAndFeelDefaults().put("Menu.arrowIcon",  
laf.getDefaults().get("Menu.arrowIcon"));
```

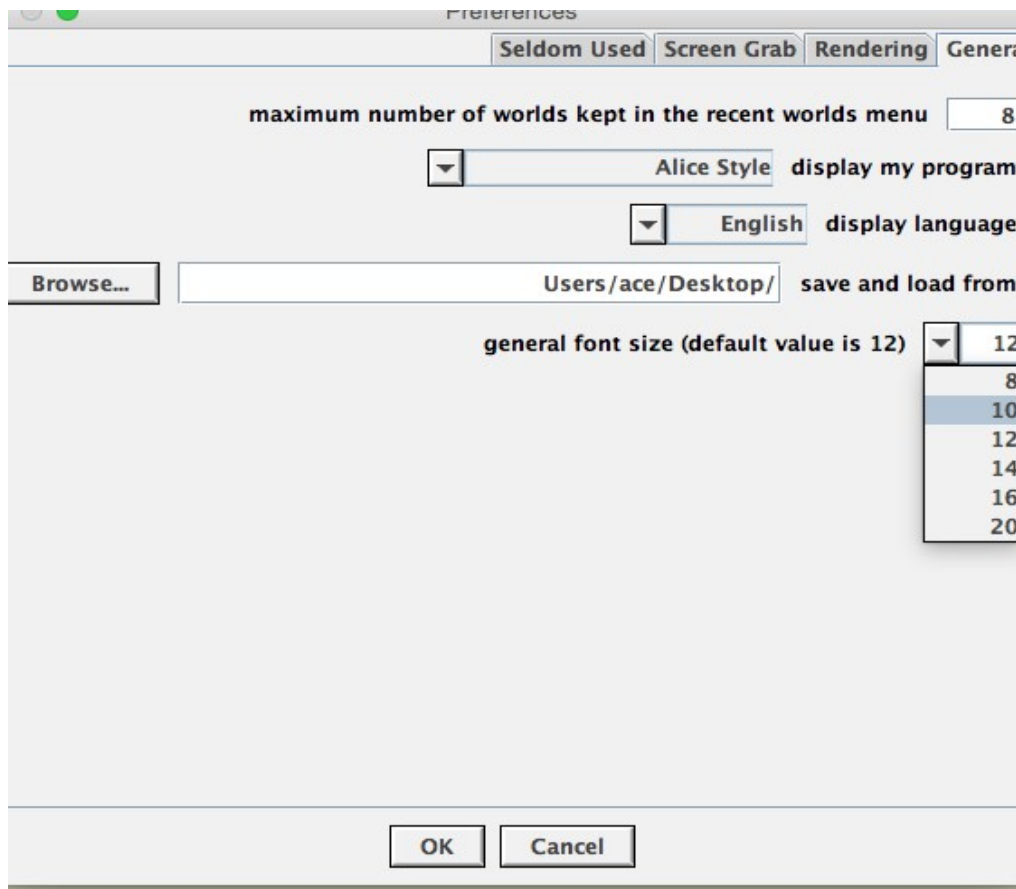
Default



Fixed



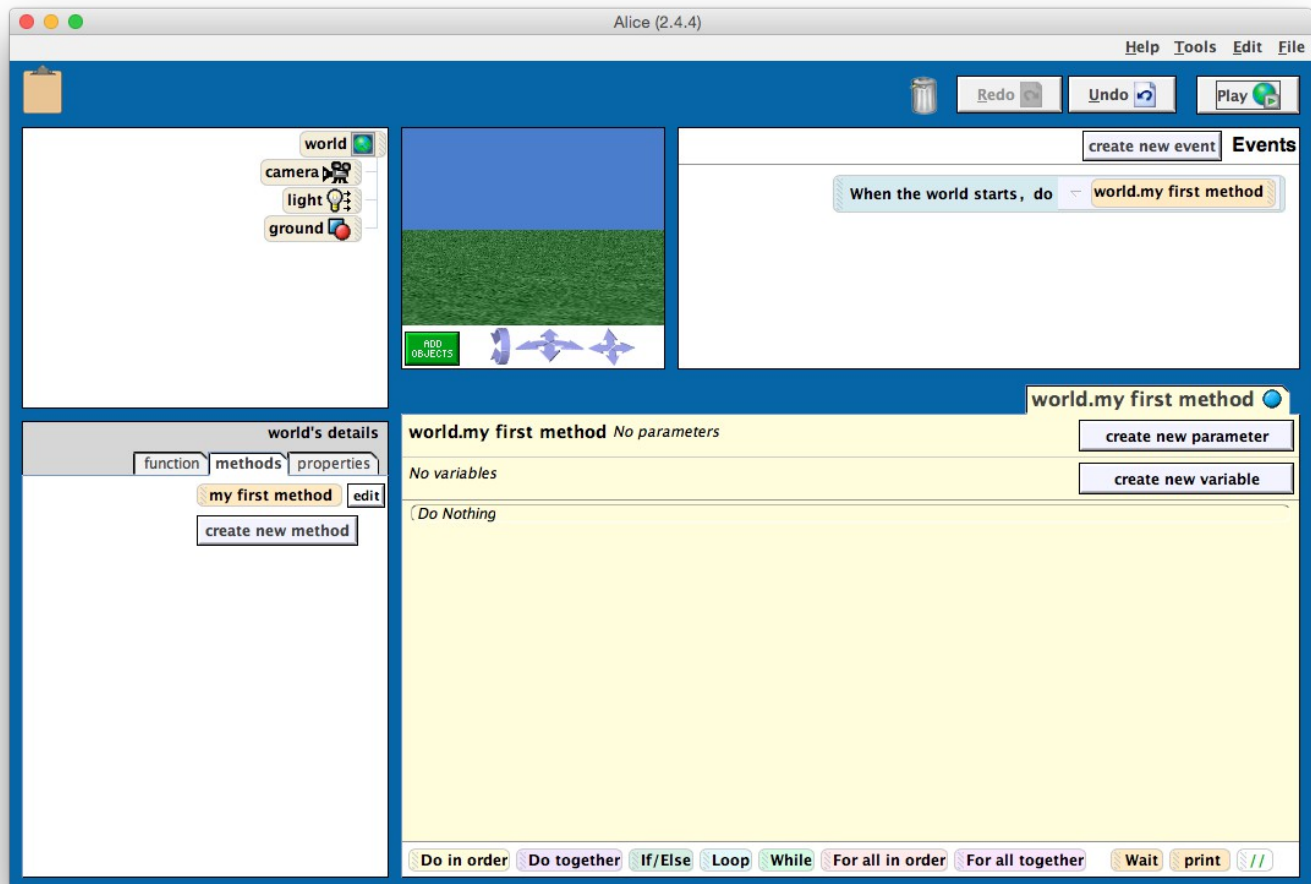
Right align Preferences ComboBoxes – ComboBox items are not right align in Arabic language.
Fixed all ComboBoxes in Preferences.



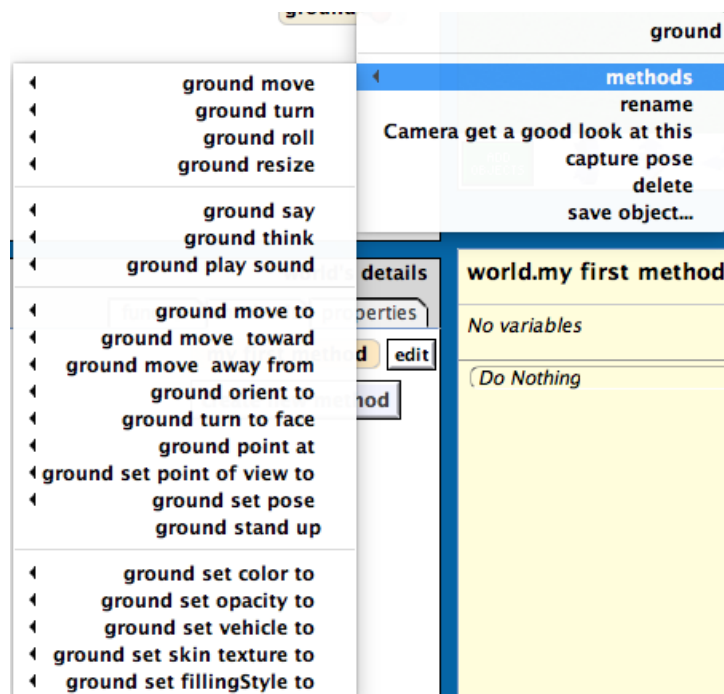
```
if (!AikMin.isLTR()) {  
    languageComboBox.setRenderer(new javax.swing.DefaultListCellRenderer() {  
        @Override  
        public void paint(java.awt.Graphics g) {  
            setHorizontalAlignment(javax.swing.DefaultListCellRenderer.RIGHT);  
            super.paint(g);  
        }  
    });  
}
```

Confirmed applyComponentOrientation changes – applyComponentOrientation inserted onto code to flip the layout of the components in Alice for the Arabic language.

edu.cmu.cs.stage3.alice.authoringtool.JAliceFrame.java line 92 – For main Alice layout.



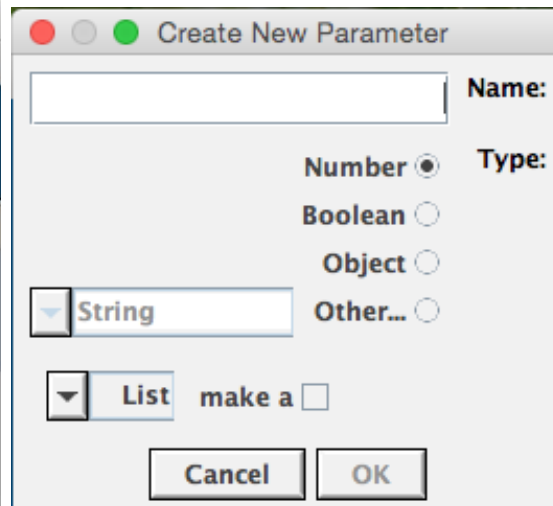
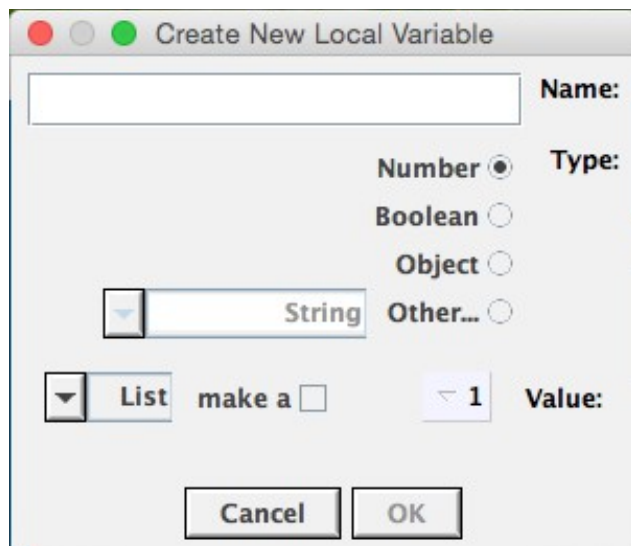
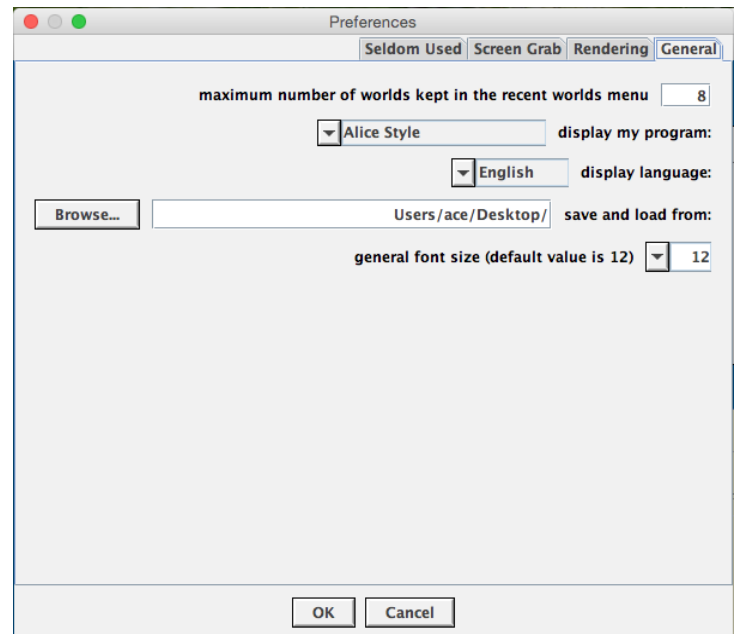
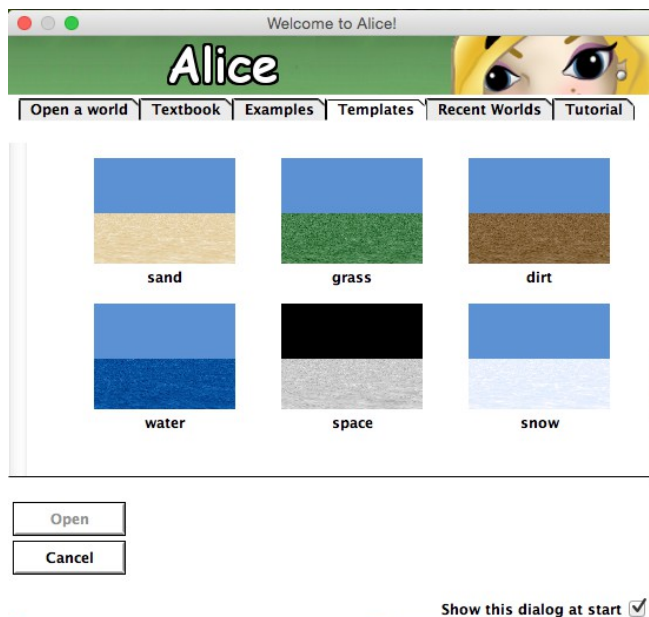
edu.cmu.cs.stage3.alice.authoringtool.util.PopupMenuUtilities.java line 260, 276, and 287 – For right clicked popup menu.



edu.cmu.cs.stage3.alice.swing.ContentPane.java line 24 – For all Alice window.

Added edu.cmu.cs.stage3.alice.swing.DialogManager.java line 139 for Numpad

Added edu.cmu.cs.stage3.alice.authoringtool.dialog.PreferencesContentPane.java line 283



edu.cmu.cs.stage3.alice.authoringtool.viewcontroller.VariableGUI.java line 46 – For variable tiles in the properties tab of the details pane.

edu.cmu.cs.stage3.alice.authoringtool.viewcontroller.PropertyGUI.java line 45 – For property tiles in the properties tab of the details pane.

edu.cmu.cs.stage3.alice.authoringtool.DragFromComponent.java line 968 – For the tiles in the details panel (except the seldom used properties).

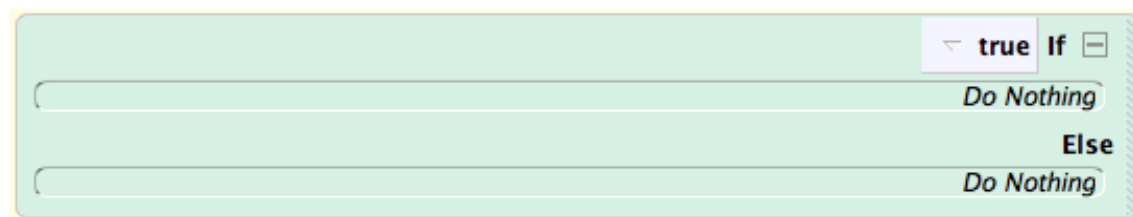


edu.cmu.cs.stage3.alice.authoringtool.ExpandablePanel.java line 120 – For the Seldom Used Properties in the properties tab of the details panel.

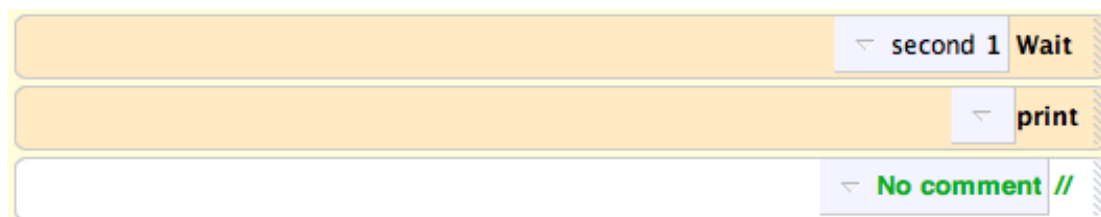
edu.cmu.cs.stage3.alice.authoringtool.editors.compositeeditor.CompositElementPanel.java line 408 – For the Do in order, Do together, Loop, and etc tiles.



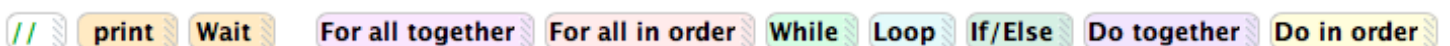
edu.cmu.cs.stage.alice.authoringtool.editors.compositeeditor.IfElseElementPanel.java line 280 – For the If/Else tile



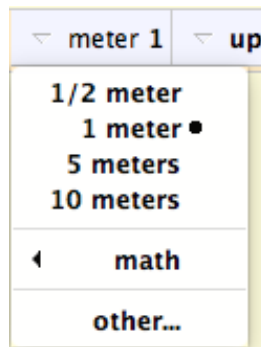
edu.cmu.cs.stage.alice.authoringtool.editors.compositeeditor.ComponentElementPanel.java line 58 – For Wait, Print and Comment tile.



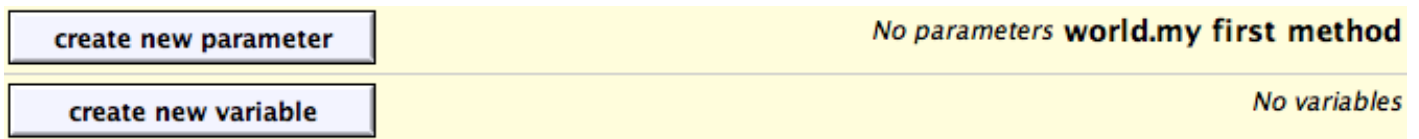
edu.cmu.cs.stage3.alice.authoringtool.editors.compositeeditor.CompositElementEditor.java line 210 – For the tiles below the editor.



edu.cmu.cs.stage3.alice.authoringtool.viewcontroller.PropertyViewController.java line 505 and 530 – For the Combobox GUI in tiles.

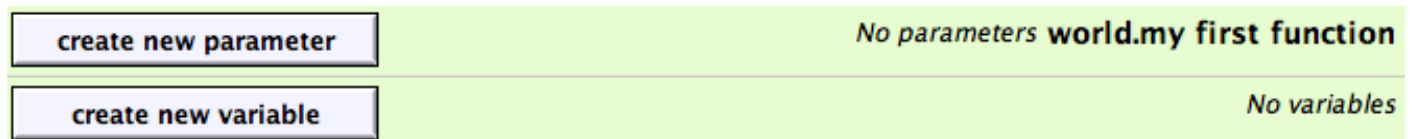


edu.cmu.cs.stage.alice.authoringtool.editors.compositeeditor.MainCompositeElementPanel.java line 681 – For the parameter and variable panel in the Editor panel for Methods.



edu.cmu.cs.stage.alice.authoringtool.editors.compositeeditor.CompositeComponentElementPanel.java line 222 – For the Do Nothing in the Method editor panel, and the No events in the Events panel.

edu.cmu.cs.stage.alice.authoringtool.editors.questioneditor.MainCompositeQuestionPanel.java line 217 – For the parameter and variable panel in the Editor panel for Functions.



edu.cmu.cs.stage.alice.authoringtool.editors.questioneditor.MainCompositeQuestionPanel.java line 66 – For the Do Nothing in the Function editor panel.

Scroll Panes

Horizontal scroll bars is not flipped even when it is set to Right-to-Left orientation.

edu.cmu.cs.stage.alice.authoringtool.DragFromComponent.java line 195 – For Details panel

```
propertiesScrollPane.setLayout(new javax.swing.ScrollPaneLayout() {  
    @Override  
    public void layoutContainer(java.awt.Container parent) {  
        javax.swing.JScrollPane scrollPane = (javax.swing.JScrollPane) parent;  
        scrollPane.setComponentOrientation(java.awt.ComponentOrientation.RIGHT_TO_LEFT);  
        super.layoutContainer(parent);  
        scrollPane.setComponentOrientation(java.awt.ComponentOrientation.LEFT_TO_RIGHT);  
    }  
});
```

edu.cmu.cs.stage.alice.authoringtool.dialog.NewNamedTypedElementContentPane.java line 94 – For Create New Variable Value panel

edu.cmu.cs.stage.alice.authoringtool.dialog.AliceAlertContentPane.java line 377 – For Error and Output console

edu.cmu.cs.stage.alice.authoringtool.editors.behaviorgroupseitor.BehaviorGroupsEditor.java line 549 – For Event panel

edu.cmu.cs.stage.alice.authoringtool.editors.compositeeditor.MainCompositeElementPanel.java line 547 – For Editor panel

edu.cmu.cs.stage.alice.authoringtool.WorldTreeComponent.java line 595 – For Tree panel

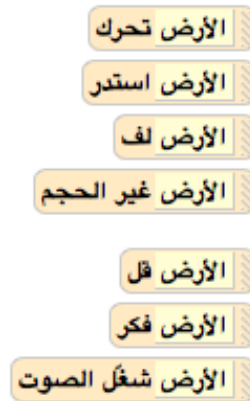
edu.cmu.cs.stage.alice.authoringtool.dialog.WorldInfoContentPane.java line 185 – For World Statistic panel

edu.cmu.cs.stage.alice.authoringtool.galleryviewer.GalleryViewer.java line 1990 – for Gallery panel

Arabic text encoding

edu.cmu.cs.stage.alice.authoringtool.util.FormatTokenizer.java line 36 – For displaying text in the tiles of the formatMap section of the py file.

```
inputString = new String ( inputString.toString().getBytes("ISO-8859-1"), "UTF-8" );
```



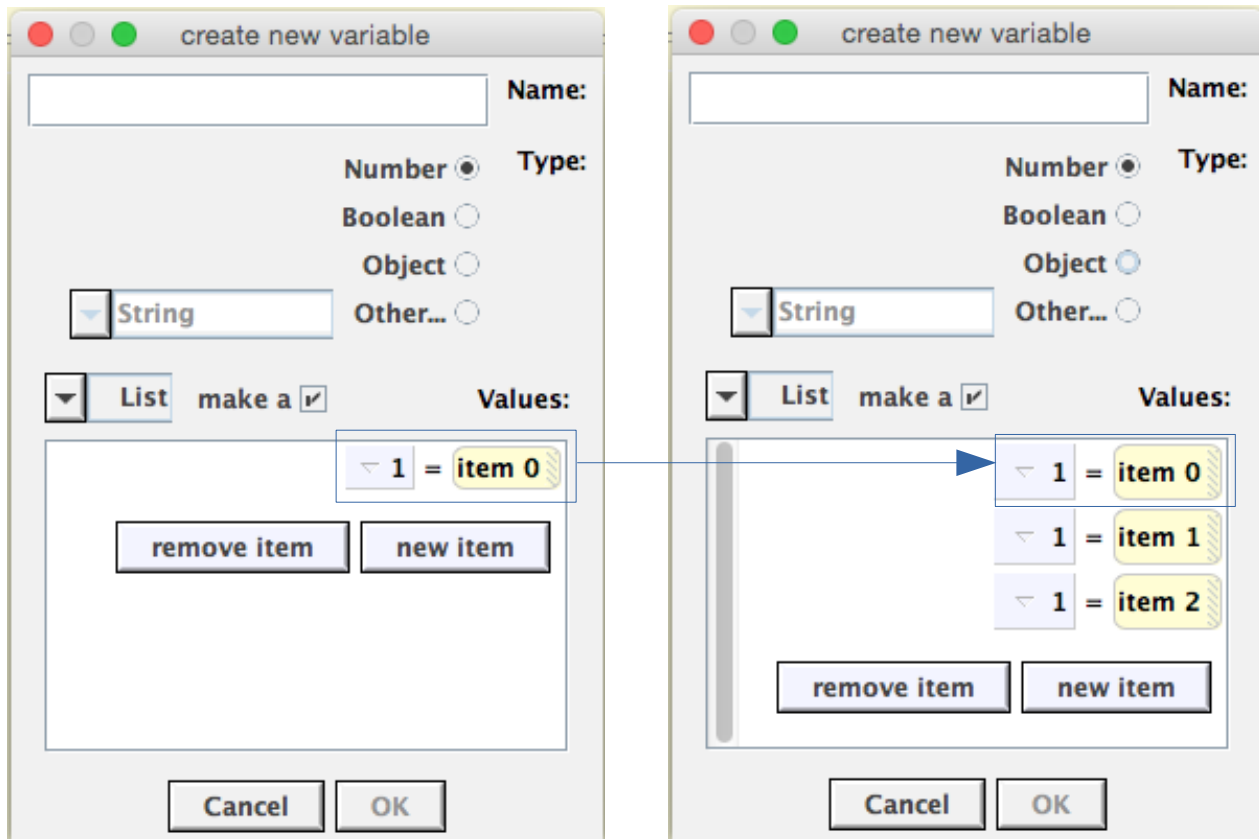
edu.cmu.cs.stage.alice.authoringtool.AuthoringToolResources.java line 519 – For displaying text in the tiles of the nameMap section of the py file.

Dialog

Don't flip the number pad.

Tiles height

Tile height when created, not the same as when updated.



Height is based on the grip size in `edu.cmu.cs.stage.alice.authoringtool.util.DnDGroupingPanel.java` line 416 but somehow it is increased by 3 when a second item is added to the list.

Properties in the Details panel has a height of 23.