

Deep Dive into Flex 4.5 (Hero) Preview

taiga.jp

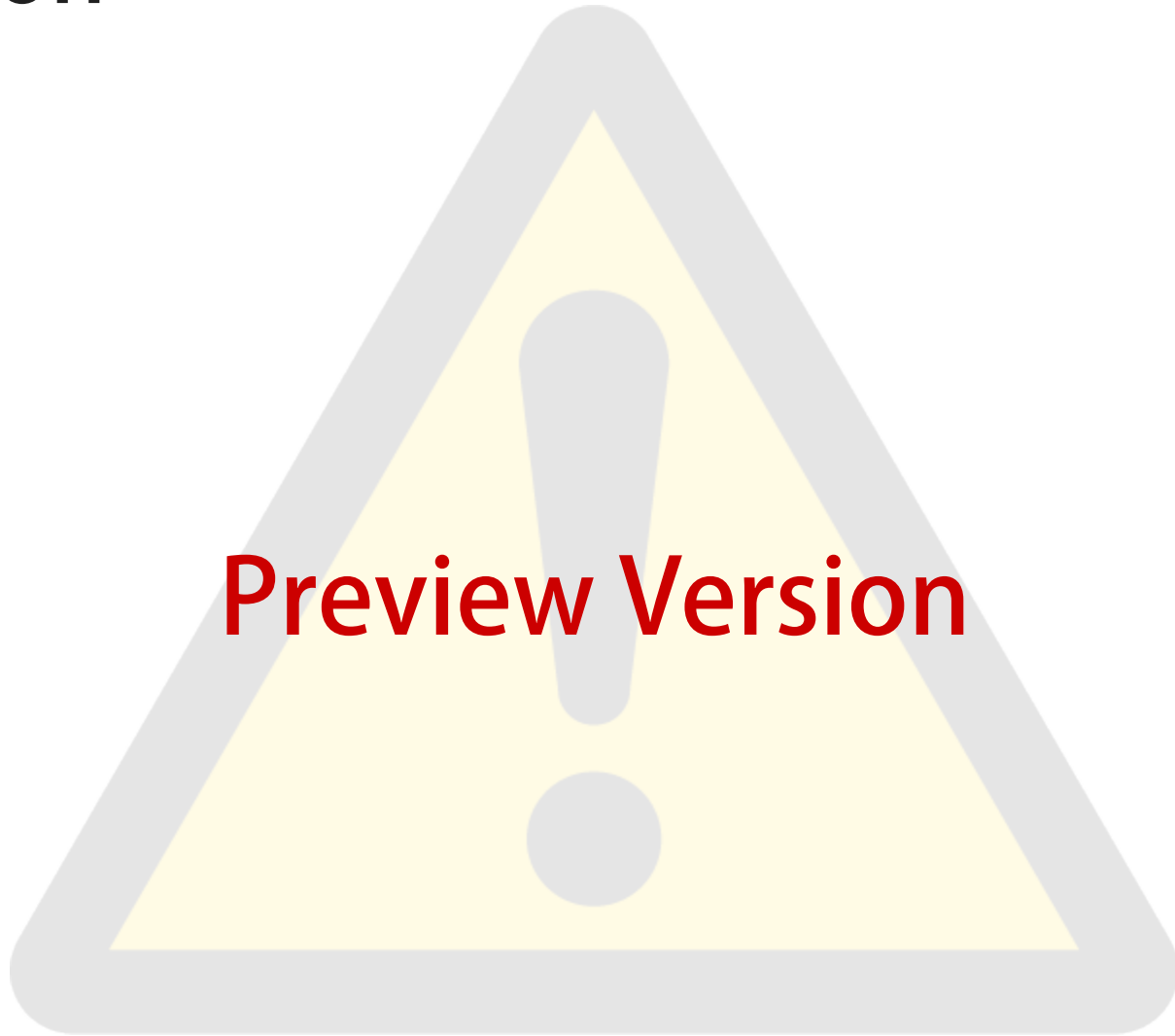
Taiga Hirohata

Taiga

- Freelance Flash / Flex engineer
- Blog - <http://blog.taiga.jp/>
- parasitic in CLASSMETHOD Inc. for 3 years or less
- Adobe Community Professional
- @taiga



Caution



Agenda

- Review a Spark component
- ConstraintLayout
- Form
- Formatters
- Image
- DataGrid

Review a Spark component

Review a Spark component

TitleWindow.as

```
[SkinPart]  
public var closeButton:Button;
```

TitleWindowSkin.mxml

```
<s:Button id="closeButton" />
```

```
<s:TitleWindow skinClass="TitleWindowSkin" />
```



closeButton

ConstraintLayout

ConstraintLayout

- constraintColumns property

```
<s:layout>
  <s:ConstraintLayout>
    <s:constraintColumns>
      <s:ConstraintColumn id="col1" width="160" />
      <s:ConstraintColumn id="col2" width="160" />
      <s:ConstraintColumn id="col3" width="160" />
      <s:ConstraintColumn id="col4" width="160" />
    </s:constraintColumns>
  </s:ConstraintLayout>
</s:layout>
```


ConstraintLayout

- `constraintColumns` property

```
<s:Button left = "col1 : 10" />
```

```
<s:Button left = "col2 : 20" />
```

```
<s:Button left = "col3 : 40" />
```

```
<s:Button right = "col4 : 10" />
```



ConstraintLayout

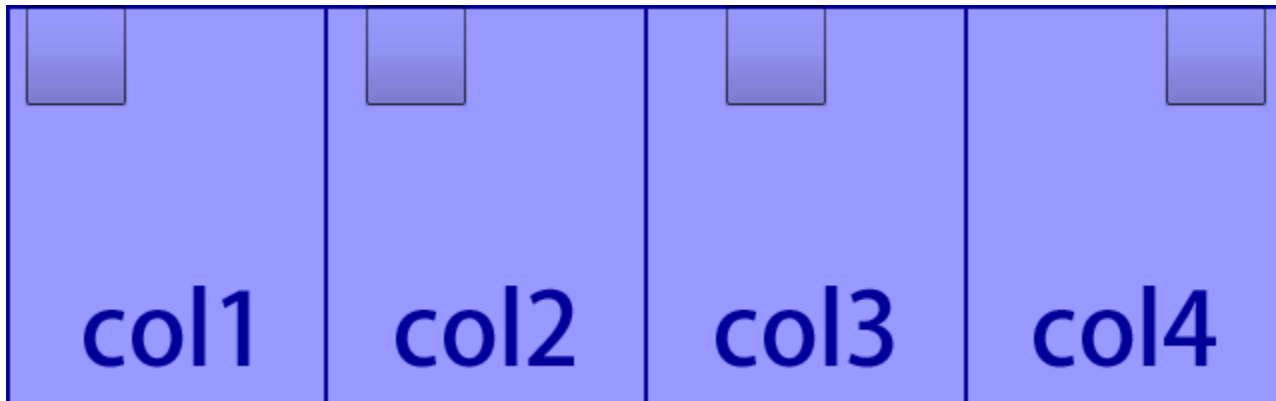
- `constraintColumns` property

```
<s:Button left = "col1 : 10" />
```

```
<s:Button left = "col2 : 20" />
```

```
<s:Button left = "col3 : 40" />
```

```
<s:Button right = "col4 : 10" />
```



ConstraintLayout

- constraintRows property

```
<s:layout>
  <s:ConstraintLayout>
    <s:constraintRows>
      <s:ConstraintRow id="row1" height="100" />
      <s:ConstraintRow id="row2" height="100" />
    </s:constraintRows>
  </s:ConstraintLayout>
</s:layout>
```

ConstraintLayout

- constraintRows property

```
<s:Button top = "row1 : 10" />
```

```
<s:Button bottom = "row2 : 10" />
```

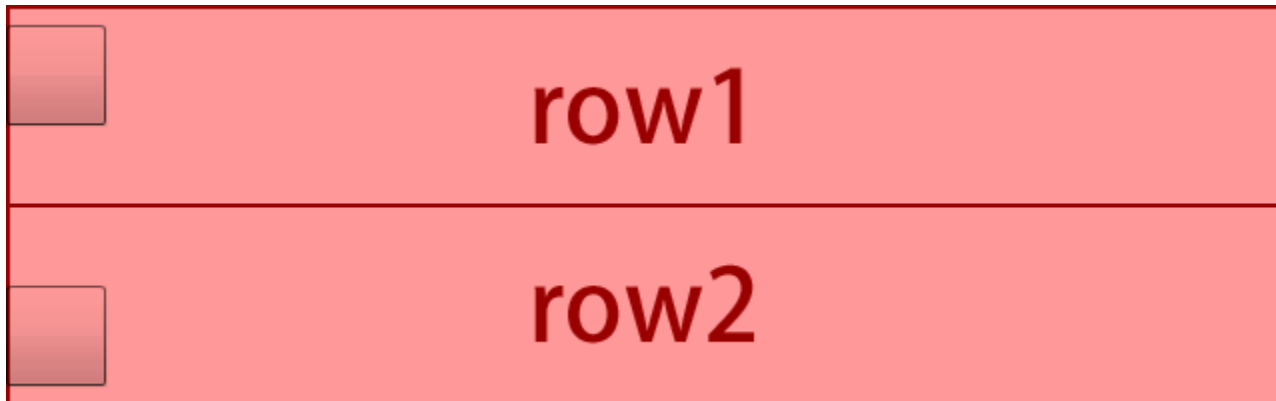


ConstraintLayout

- constraintRows property

<s:Button top = "row1 : 10" />

<s:Button bottom = "row2 : 10" />



ConstraintLayout

- constraintColumns & constraintRows property

```
<s:layout>
  <s:ConstraintLayout>
    <s:constraintColumns>
      <s:ConstraintColumn id="col1" width="160" />
      <s:ConstraintColumn id="col2" width="160" />
      <s:ConstraintColumn id="col3" width="160" />
    </s:constraintColumns>
    <s:constraintRows>
      <s:ConstraintRow id="row1" height="100" />
      <s:ConstraintRow id="row2" height="100" />
    </s:constraintRows>
  </s:ConstraintLayout>
</s:layout>
```

ConstraintLayout

- `constraintColumns` & `constraintRows` property

```
<s:Button left = "col1 : 10" top    = "row1 : 10" />
```

```
<s:Button left = "col2 : 10" top    = "row2 : 20" />
```

```
<s:Button right = "col3 : 10" bottom = "row2 : 10" />
```



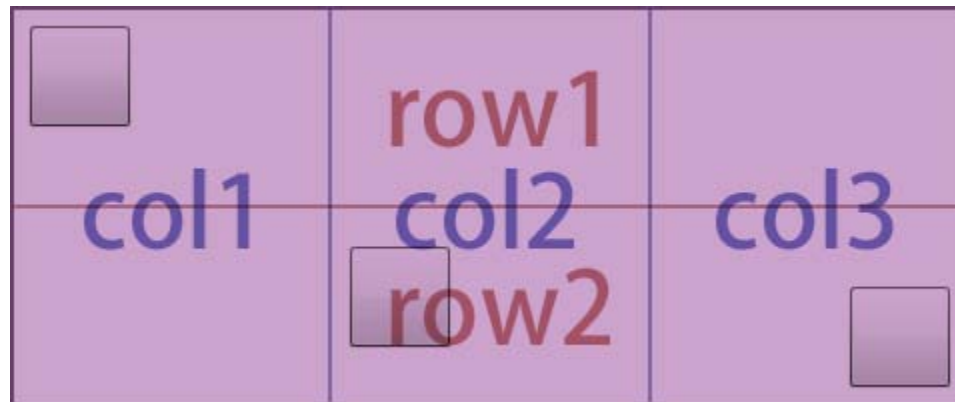
ConstraintLayout

- constraintColumns & constraintRows property

<s:Button left = "col1 : 10" top = "row1 : 10" />

<s:Button left = "col2 : 10" top = "row2 : 20" />

<s:Button right = "col3 : 10" bottom = "row2 : 10" />



ConstraintLayout

- constraintColumns & constraintRows property

Current version does not support the percentage

```
<s:ConstraintLayout>  
  <s:constraintColumns>  
    <s:ConstraintColumn id="col1" width="100%" />  
  </s:constraintColumns>  
  <s:constraintRows>  
    <s:ConstraintRow id="row1" height="100%" />  
  </s:constraintRows>  
</s:ConstraintLayout>
```

Form

Form

- Form
- FormHeading
- FormItem
- Skin
 - FormSkin
 - FormHeadingSkin
 - FormItemSkin
 - StackedFormSkin
 - StackedFormHeadingSkin
 - StackedFormItemSkin

FormItem

- sequenceLabel property (FormItemSkin)

☐ Stacked forms

Spark Form Heading

1. Username:

2. Password:

3. Confirm password:

Submit

Reset

FormItem

- sequenceLabel property (StackedFormItemSkin)

☒ Stacked forms

Spark Form Heading

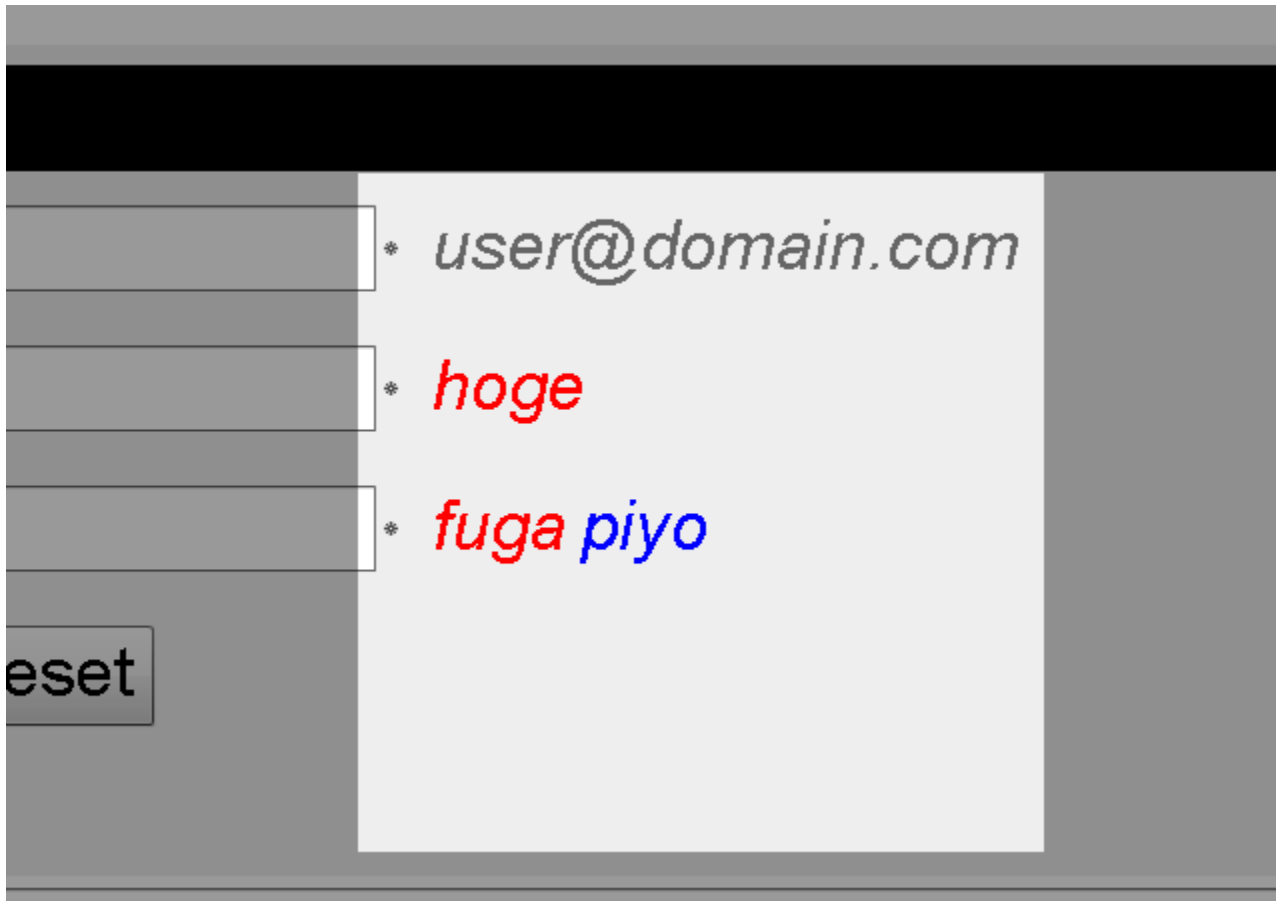
1. Username: * *user@doma*

2. Password: * *hoge*

3. Confirm password: * *fuga piyo*

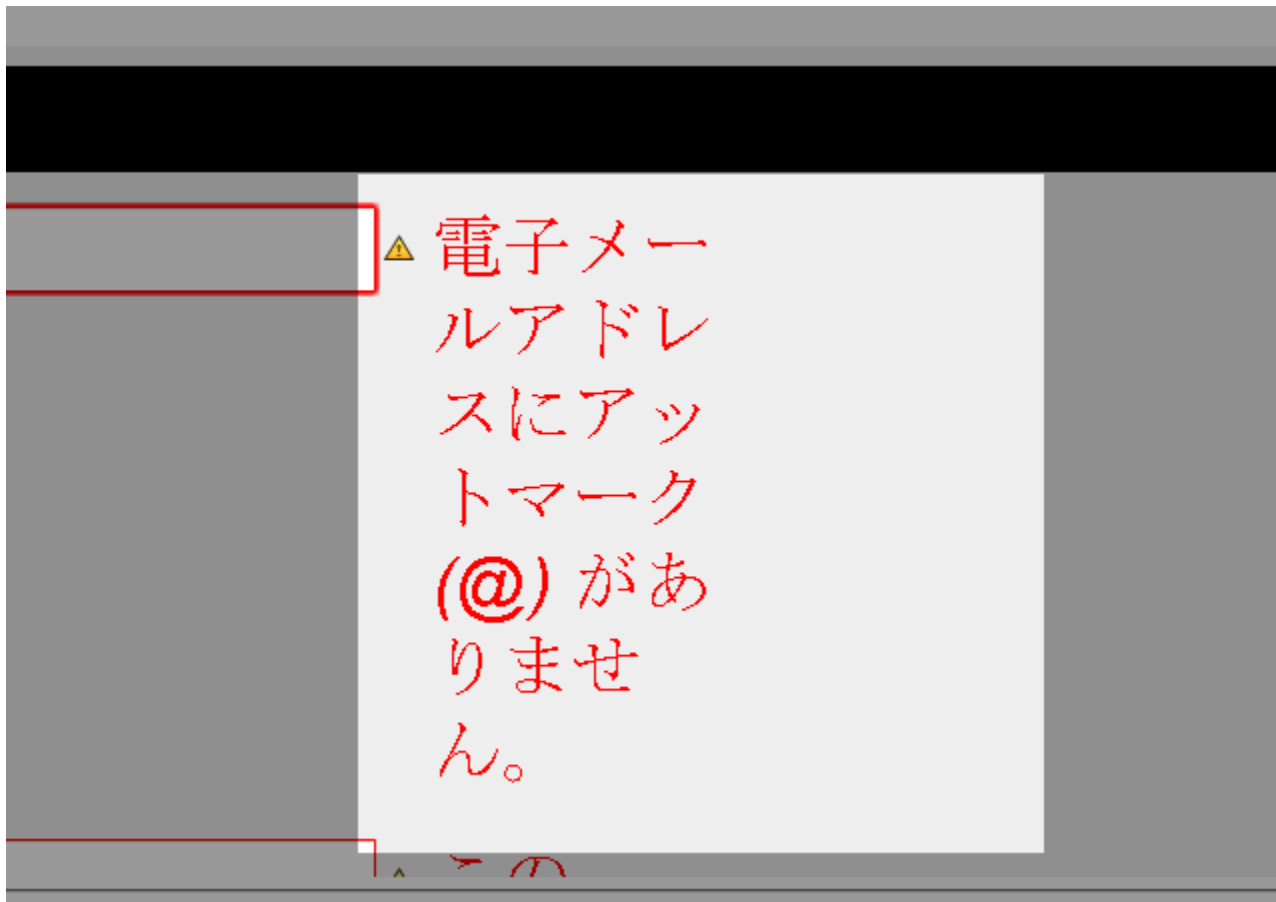
FormItem

- helpContent property (FormItemSkin)



FormItem

- helpContent property (FormItemSkin)



Formatters

Formatters

- `CurrencyFormatter`
- `DateTimeFormatter`
- `NumberFormatter`

Formatters

- CurrencyFormatter

Locale	ja_JP
Currency	JPY123,450
	123450
Date	2010 年 11 月 25 日 0:00:00
	2010/11/25
Number	9,876,500.43
	9876500.43

Formatters

- DateTimeFormatter

Locale	ja_JP
Currency	JPY123,450
	123450
Date	2010 年 11 月 25 日 0:00:00
	2010/11/25
Number	9,876,500.43
	9876500.43

Formatters

- NumberFormatter

Locale	ja_JP
Currency	JPY123,450
	123450
Date	2010 年 11 月 25 日 0:00:00
	2010/11/25
Number	9,876,500.43
	9876500.43

Formatters

- ja_JP

Locale	ja_JP
Currency	JPY123,450 123450
Date	2010 年 11 月 25 日 0:00:00 2010/11/25
Number	9,876,500.43 9876500.43

Formatters

- en_US

Locale	en_US
Currency	USD123,450.00 123450
Date	Thursday, November 25, 2010 12:00:00 AM 2010/11/25
Number	9,876,500.43 9876500.43

Formatters

- fr_FR

Locale	fr_FR
Currency	123 450,00 EUR 123450
Date	jeudi 25 novembre 2010 00:00:00 2010/11/25
Number	9 876 500,43 9876500.43

Image

Image SkinState

- uninitialized
- loading
- ready
- invalid
- disabled

Image SkinPart

- `imageDisplay`
- `progressIndicator`
- `bronkenImage (undefined)`

Image SkinPart

- imageDisplay

240 x 180

640 x 480

1200 x 900

Dummy URL

<s:Image>

</s:Image>



smoothingQuality

Image SkinPart

- progressIndicator (includeIn="loading")

240 x 180

640 x 480

1200 x 900

Dummy URL

<s:Image>



</s:Image>



smoothingQuality

Image SkinPart

- brokenImage (undefined) (includeIn="invalid")

240 x 180

640 x 480

1200 x 900

Dummy URL

<s:Image>



</s:Image>

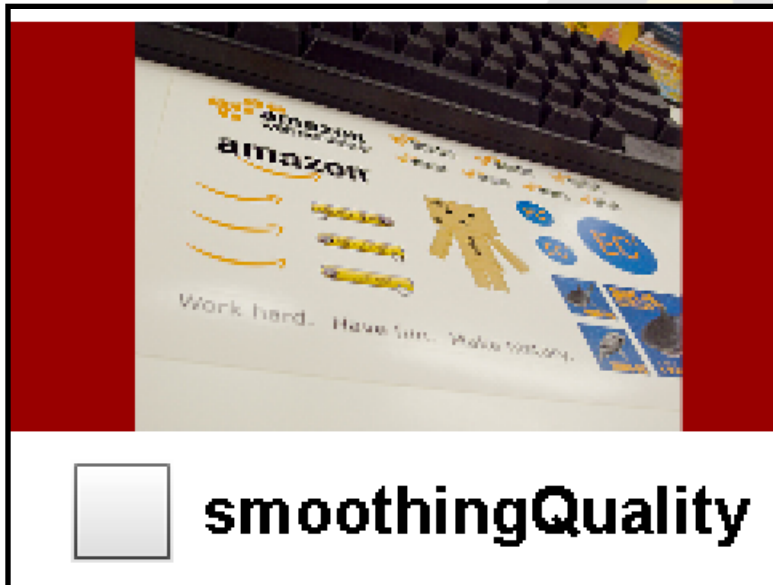


smoothingQuality

Image

- `smoothingQuality` property

smooth property must be true



default



high

DataGrid

DataGrid SkinState

- normal
- disabled

DataGrid SkinPart

- columnHeaderBar

Name	View	Style	Type
Adobe Arabic	Adobe Arabic	regular	device
Adobe Caslon Pro	Adobe Caslon Pro	regular	device
Adobe Caslon Pro Bold	Adobe Caslon Pro Bold	regular	device
Adobe Fan Heiti Std B	Adobe Fan Heiti Std B	regular	device
Adobe Fangsong Std B	Adobe Fangsong Std B	regular	device

DataGrid SkinPart

- grid

Name	View	Style	Type
Adobe Arabic	Adobe Arabic	regular	device
Adobe Caslon Pro	Adobe Caslon Pro	regular	device
Adobe Caslon Pro Bold	Adobe Caslon Pro Bold	regular	device
Adobe Fan Heiti Std B	Adobe Fan Heiti Std B	regular	device
Adobe Fangsong Std B	Adobe Fangsong Std B	regular	device

DataGrid SkinPart

- scroller

Name	View	Style	Type
Adobe Arabic	Adobe Arabic	regular	device
Adobe Caslon Pro	Adobe Caslon Pro	regular	device
Adobe Caslon Pro Bold	Adobe Caslon Pro Bold	regular	device
Adobe Fan Heiti Std B	Adobe Fan Heiti Std B	regular	device
Adobe Fangsong Std B	Adobe Fangsong Std B	regular	device

DataGrid SkinPart

- alternatingRowColorsBackground
(alternatingRowColors != null)

Name	View	Style	Type
Adobe Arabic	Adobe Arabic	regular	device
Adobe Caslon Pro	Adobe Caslon Pro	regular	device
Adobe Caslon Pro Bold	Adobe Caslon Pro Bold	regular	device
Adobe Fan Heiti Std B	Adobe Fan Heiti Std B	regular	device
Adobe Fangsong Std B	Adobe Fangsong Std B	regular	device

Grid property

- caretIndicator
- selectionIndicator
- columnSeparator
- rowSeparator
- hoverIndicator

Grid property

- caretIndicator

Adobe Arabic	Adobe Arabic	regular	device
Adobe Caslon Pro	Adobe Caslon Pro	regular	device
Adobe Caslon Pro Bold	Adobe Caslon Pro Bold	regular	device
Adobe Fan Heiti Std B	Adobe Fan Heiti Std B	regular	device
Adobe Fangsong Std B	Adobe Fangsong Std B	regular	device

Grid property

- selectionIndicator

Adobe Arabic	Adobe Arabic	regular	device
Adobe Caslon Pro	Adobe Caslon Pro	regular	device
Adobe Caslon Pro Bold	Adobe Caslon Pro Bold	regular	device
Adobe Fan Heiti Std B	Adobe Fan Heiti Std B	regular	device
Adobe Fangsong Std B	Adobe Fangsong Std B	regular	device

Grid property

- columnSeparator

Adobe Arabic	Adobe Arabic	regular	device
Adobe Caslon Pro	Adobe Caslon Pro	regular	device
Adobe Caslon Pro Bold	Adobe Caslon Pro Bold	regular	device
Adobe Fan Heiti Std B	Adobe Fan Heiti Std B	regular	device
Adobe Fangsong Std B	Adobe Fangsong Std B	regular	device

Grid property

- rowSeparator

Adobe Arabic	Adobe Arabic	regular	device
Adobe Caslon Pro	Adobe Caslon Pro	regular	device
Adobe Caslon Pro Bold	Adobe Caslon Pro Bold	regular	device
Adobe Fan Heiti Std B	Adobe Fan Heiti Std B	regular	device
Adobe Fangsong Std B	Adobe Fangsong Std B	regular	device

Grid property

- hoverIndicator

Adobe Arabic	Adobe Arabic	regular	device
Adobe Caslon Pro	Adobe Caslon Pro	regular	device
Adobe Caslon Pro Bold	Adobe Caslon Pro Bold	regular	device
Adobe Fan Heiti Std B	Adobe Fan Heiti Std B	regular	device
Adobe Fangsong Std B	Adobe Fangsong Std B	regular	device

selectionMode property

- none
- singleRow
- singleCell
- multipleRows
- multipleCells

selectionMode property

- none

none	singleRow	singleCell	multipleRows	multipleCells
Name	View	Style	Type	
Adobe Arabic	Adobe Arabic	regular	device	
Adobe Caslon Pro	Adobe Caslon Pro	regular	device	
Adobe Caslon Pro Bold	Adobe Caslon Pro Bold	regular	device	
Adobe Fan Heiti Std B	Adobe Fan Heiti Std B	regular	device	
Adobe Fangsong Std B	Adobe Fangsong Std B	regular	device	

selectionMode property

- singleRow

none	singleRow	singleCell	multipleRows	multipleCells
Name	View	Style	Type	
Adobe Arabic	Adobe Arabic	regular	device	
Adobe Caslon Pro	Adobe Caslon Pro	regular	device	
Adobe Caslon Pro Bold	Adobe Caslon Pro Bold	regular	device	
Adobe Fan Heiti Std B	Adobe Fan Heiti Std B	regular	device	
Adobe Fangsong Std B	Adobe Fangsong Std B	regular	device	

selectionMode property

- singleCell

none	singleRow	singleCell	multipleRows	multipleCells
Name	View	Style	Type	
Adobe Arabic	Adobe Arabic	regular	device	
Adobe Caslon Pro	Adobe Caslon Pro	regular	device	
Adobe Caslon Pro Bold	Adobe Caslon Pro Bold	regular	device	
Adobe Fan Heiti Std B	Adobe Fan Heiti Std B	regular	device	
Adobe Fangsong Std B	Adobe Fangsong Std B	regular	device	

selectionMode property

- multipleRows

none	singleRow	singleCell	multipleRows	multipleCells
Name	View	Style	Type	
Adobe Arabic	Adobe Arabic	regular	device	
Adobe Caslon Pro	Adobe Caslon Pro	regular	device	
Adobe Caslon Pro Bold	Adobe Caslon Pro Bold	regular	device	
Adobe Fan Heiti Std B	Adobe Fan Heiti Std B	regular	device	
Adobe Fangsong Std B	Adobe Fangsong Std B	regular	device	

selectionMode property

- multipleCells

none	singleRow	singleCell	multipleRows	multipleCells
Name	View	Style	Type	
Adobe Arabic	Adobe Arabic	regular	device	
Adobe Caslon Pro	Adobe Caslon Pro	regular	device	
Adobe Caslon Pro Bold	Adobe Caslon Pro Bold	regular	device	
Adobe Fan Heiti Std B	Adobe Fan Heiti Std B	regular	device	
Adobe Fangsong Std B	Adobe Fangsong Std B	regular	device	

DataGrid Event

- GridEvent
- GridSelectionEvent
- GridCaretEvent

GridEvent type

- GRID_MOUSE_DOWN
- GRID_MOUSE_DRAG
- GRID_MOUSE_UP
- GRID_CLICK
- GRID_DOUBLE_CLICK
- GRID_ROLL_OVER
- GRID_ROLL_OUT
- SEPARATOR_MOUSE_DRAG
- SEPARATOR_CLICK
- SEPARATOR_MOUSE_DOWN
- SEPARATOR_MOUSE_UP
- SEPARATOR_ROLL_OUT
- SEPARATOR_ROLL_OVER

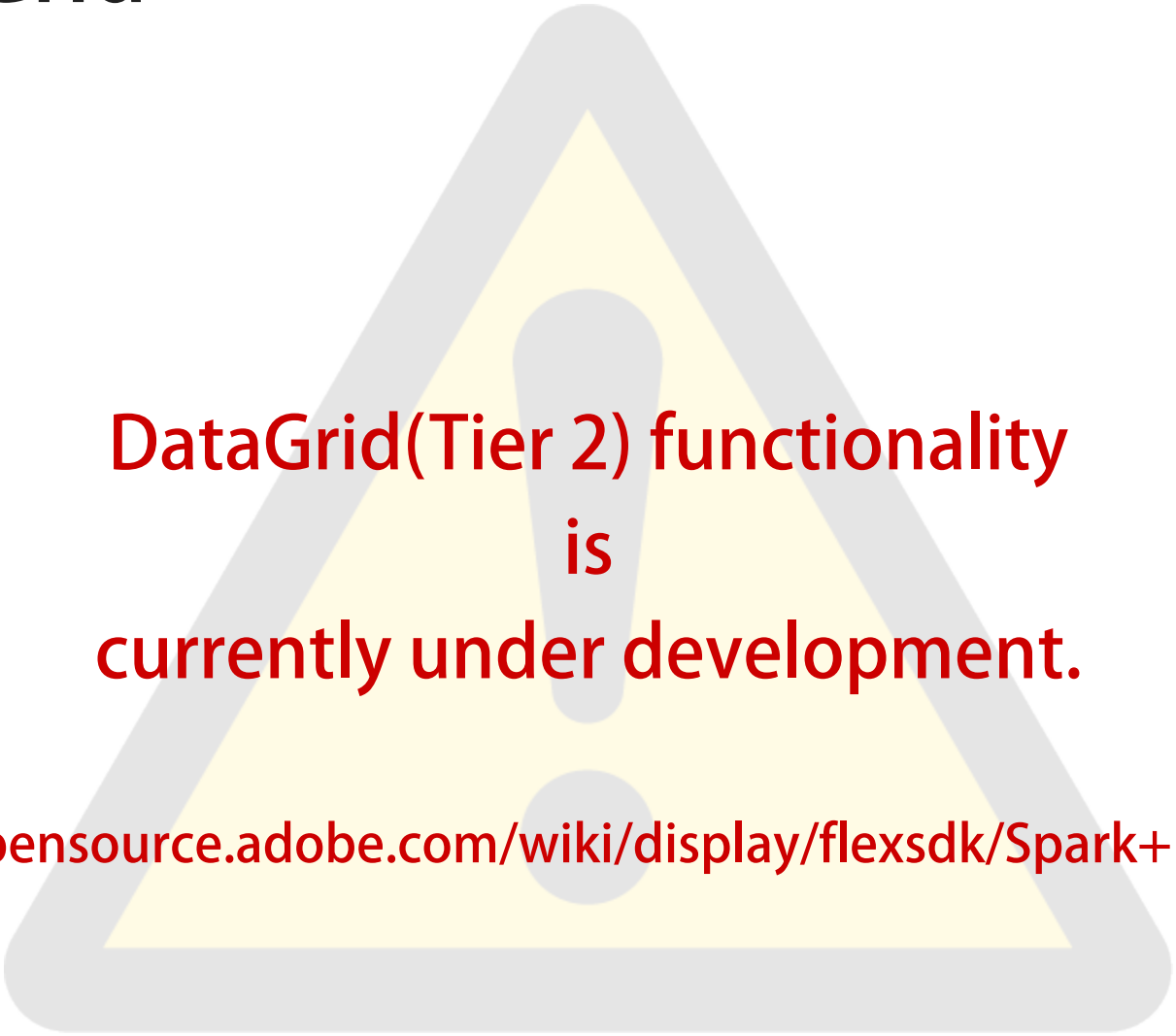
GridSelectionEvent type

- SELECTION_CHANGE
- SELECTION_CHANGING

GridCaretEvent type

- CARET_CHANGE

DataGrid

A large, light gray warning sign with a yellow triangle and a black exclamation mark in the center. The text is overlaid on the sign.

**DataGrid(Tier 2) functionality
is
currently under development.**

<http://opensource.adobe.com/wiki/display/flexsdk/Spark+DataGrid>

Other

Other new future

- Video and text enhancements in "Hero"
 - OSMF and "Hero"
 - TLF and "Hero"
- RSL Improvements
- "Hero" Mobile Components

See

- ADC

Introducing Adobe Flex SDK "Hero"

http://www.adobe.com/jp/joc/devnet/flex/articles/introducing_flexsdk_hero.html



The screenshot shows the Adobe Developer Connection website. At the top, there's a navigation bar with 'ADOBE DEVELOPER CONNECTION' and a search bar. Below the navigation bar, there's a breadcrumb trail: 'ホーム / Developer Connection / Flexデベロッパーセンター /'. The main content area features a profile picture of Deepa Subramaniam, a woman with dark hair and a black jacket. To the right of the photo is the title 'Flex SDK 「Hero」のご紹介'. Below the title is a sub-header 'はじめに'. The main text describes the Flex SDK 'Hero' as a significant milestone, mentioning its integration with Flash Builder 'Burrito' and Flash Catalyst 'Panini'. A bulleted list at the bottom highlights the goal of enabling application development for mobile and multi-screen environments using Flex.

Adobe.com ニュースレター | RSS | 日本(変更)

ADOBE DEVELOPER CONNECTION

製品 テクノロジ

デベロッパーリソース

ホーム / Developer Connection / Flexデベロッパーセンター /



Deepa Subramaniam
<http://www.iamdeepa.com/blog>

Flex SDK 「Hero」のご紹介

はじめに

Flexは次期バージョン(コードネーム:Hero)で大きな飛躍を遂げることが予想されます。Flex SDK「Hero」プレビュー版は新たに魅力的なコンポーネントや機能が多数追加され、Flash Builder「Burrito」とFlash Catalyst「Panini」の連携にも対応します。このFlexバージョンでは次の3つの重要な目標が設定されています。

- モバイル向けおよびマルチスクリーン向けのアプリケーション開発に、デベロッパーがFlexを使用できるようにすること

Q&A