

CONTROLS

Architecture and API

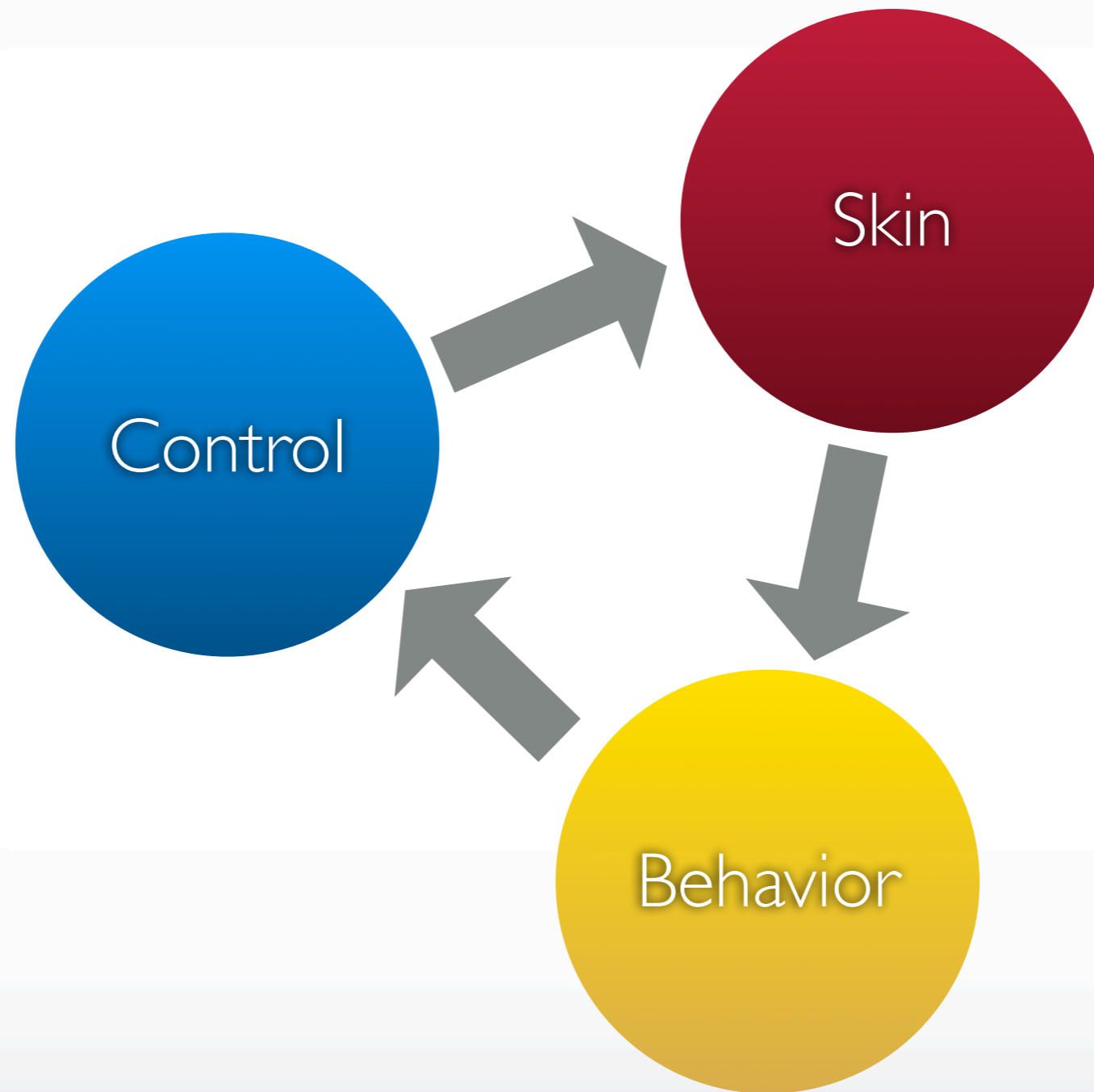
CONTROLS :: OUR GOALS

- Simple
- Useful
- Rich

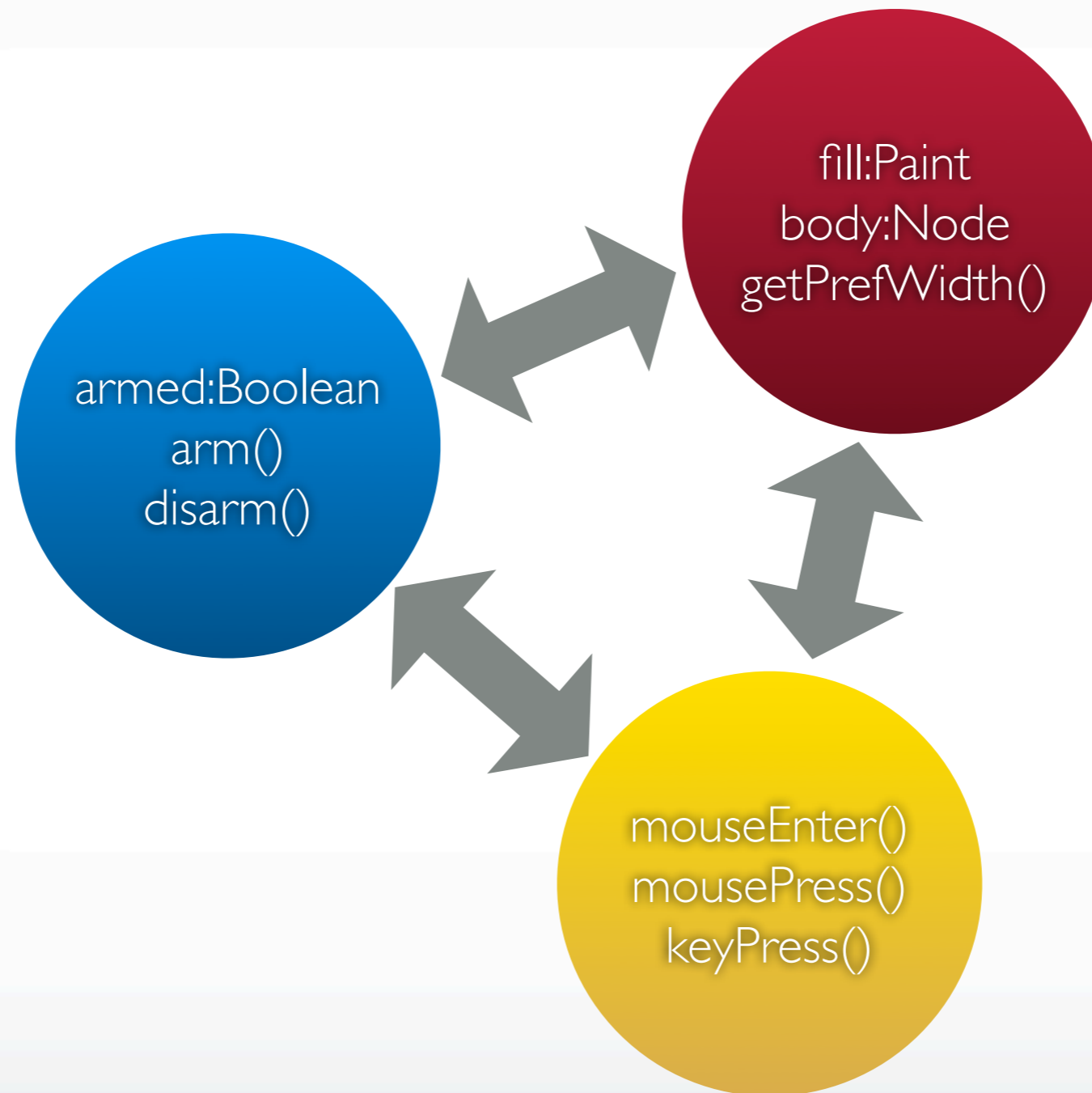
CONTROLS :: OUR GOALS

- Strong 3rd Party Control Market
- Strong 3rd Party Theme Market

CONTROLS :: THE DESIGN



CONTROLS :: AN EXAMPLE



CONTROLS :: THE FAMILY

- Button
- ToggleButton
- RadioButton
- CheckBox
- Slider
- Label
- ScrollBar
- Hyperlink
- ProgressIndicator
- ProgressBar
- TextBox
- ListView

LABELED :: HANDY MIXIN

- single / multiline text
- position text within Labeled bounds
- text overrun rules
- font
- graphic

BUTTON :: LABELED CONTROL

- strong:Boolean
- action:function()
- Example:

```
Button {  
    text: "Cancel"  
    action: function() {  
        println("I've been clicked!");  
    }  
}
```


TOGGLE BUTTON :: LABELED CONTROL

- toggleGroup:ToggleGroup
- selected:Boolean
- radio button is-a toggle button
- Example:

```
def grp = ToggleGroup { }  
ToggleButton {  
  text: "Option"  
  toggleGroup: grp  
}
```

CHECK BOX :: LABELED CONTROL

- selected:Boolean
- defined:Boolean
- allowTriState:Boolean
- Example:

```
CheckBox {  
    text: "Remember me"  
    defined: false  
    allowTriState: true  
}
```

SLIDER

- min / max / value (Number)
- vertical:Boolean
- blockIncrement:Number
- clickToPosition:Boolean
- Example:

```
var s = Slider { max: 500 }  
Rectangle { width: bind s.value }
```

SCROLL BAR

- min / max / value / vertical
- unitIncrement / blockIncrement (Numbers)
- clickToPosition: Boolean
- Example:

```
var clipView = ClipView { }  
ScrollBar {  
    value: bind clipView.clipY with inverse  
    max: bind clipView.maxClipY  
}
```

HYPERLINK :: LABELED CONTROL

- visited:Boolean
- action:function()

PROGRESS INDICATOR :: SPINNY DUDE

- progress: Number
- progress bar is-a progress indicator
- Example:

```
var task = HttpRequest { ... }  
ProgressIndicator { progress: bind task.percentDone }
```

TEXT INPUT CONTROL :: HANDY MIXIN

- text:String
- rawText:String
- promptText:String
- selectOnFocus:Boolean
- editable:Boolean
- columns:Integer
- font:Font

TEXT BOX :: TEXT INPUT CONTROL

- action:function()
- Example:

```
var t:TextBox = TextBox {  
    promptText: "Search"  
    action: function() {  
        startSearch(t.text);  
        t.text = "";  
    }  
}
```


LIST VIEW :: HUGELY SCALABLE

- items:Object[]
- selectedItem:Object
- selectedIndex:Integer
- variable row height (not yet exposed in API)
- Example:

```
ListView {  
    items: [1..50000000]  
}
```