Using LLDB in iOS

Using Chisel

raywenderlich.com

Chisel

- Install from github

https://github.com/facebook/chisel

```
command script import /path/to/fblldb.py
```

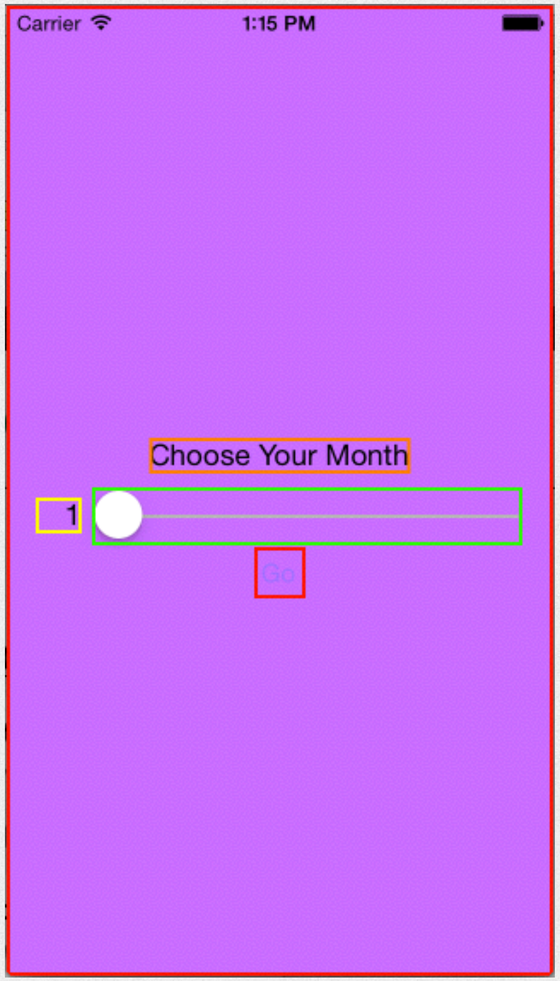
- Install from the command line

```
brew update
```

```
brew install chisel
```

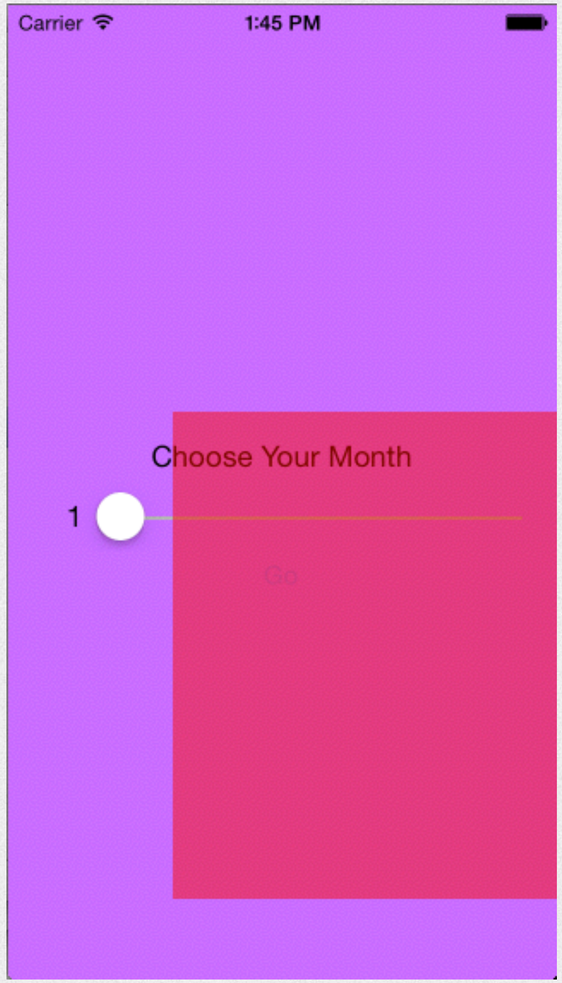
```
command script import /usr/local/Cellar/chisel/1.0.0/libexec/fblldb.py
```

border




```
(lldb) border self.view
(lldb) border self.goButton
(lldb) border --color green self.slider
(lldb) border --color yellow self.sliderLabel
(lldb) border --color orange self.titleLabel
```

mask / unmask




```
(lldb) mask self.misalignedView
```

```
(lldb) unmask self.misalignedView
```

pca

- Print the layer tree from the perspective of the render server

```
(lldb) pca
(layer [320 568 0] [0 0 320 568] [0.5 0.5 0]
  (transform [2 -0 0 0; 0 2 0 0; 0 0 1 0; 0 0 0 1])
  (rasterizationScale 2)
  (sublayers (array
    (layer [160 284 0] [0 0 320 568] [0.5 0.5 0]
      (backgroundColor #000000ff)
      (sublayers (array
        (layer [160 284 0] [0 0 320 568] [0.5 0.5 0]
          (rasterizationScale 2)
          ...
```

presponder

- Prints out the responder starting from a specific responder

```
(lldb) presponder self.view
<UIView: 0x109e08120; frame = (0 0; 320 568); autoresize = RM+BM; layer = <CALayer:
0x109e081e0>>
   | <MainViewController: 0x1093240b0>
   |    | <UIViewControllerWrapperView: 0x109e03b20; frame = (0 0; 320 568);
autoresize = RM+BM; layer = <CALayer: 0x109e02fe0>>
   |    |    | <UINavigationTransitionView: 0x109203b30; frame = (0 0; 320 568);
clipsToBounds = YES; autoresize = W+H; layer = <CALayer: 0x109206940>>
```

vs

- Interactively search for a view by walking the hierarchy.

```
(lldb) vs self.view
Use the following and (q) to quit.
(w) move to superview
(s) move to first subview
(a) move to previous sibling
(d) move to next sibling
(p) print the hierarchy

<UIView: 0x109e08120; frame = (0 0; 320 568); autoresize = RM+BM; layer =
<CALayer: 0x109e081e0>>
```

Misc Commands

- Force Core Animation to flush and repaint the UI

```
(lldb) caflush
```

- Quickly show and hide a view to quickly help visualize where it is.

```
(lldb) flicker self.view
```

Misc Commands

- Show and hide a hide while the app is paused.

```
(lldb) hide self.view
(lldb) show self.view
```

- Print out a class hierarchy of an object.

```
(lldb) pclass rw.service
RWWallpaperService
   | NSObject
```

Demo

- Demonstrate the various Chisel commands using the wallpaper browser app

Challenge Time

```
(lldb) help -a
...
The following is a list of your current user-defined commands:

bmessage    -- Run Python function __FBDebugCommands_bmessage
border      -- Run Python function __FBDisplayCommands_border
caflush     -- Run Python function __FBDisplayCommands_caflush
fa11y       -- Run Python function __FBFindCommands_fa11y
flicker     -- Run Python function __FBFlickerCommands_flicker
fv          -- Run Python function __FBFindCommands_fv
fvc         -- Run Python function __FBFindCommands_fvc
hide        -- Run Python function __FBDisplayCommands_hide
mask        -- Run Python function __FBDisplayCommands_mask
```