

# Debugging Love

# Why do we debug?

- Bugs happen
- Crashes happen
- Code we didn't write, but need to understand
- Code we wrote and need to understand

# Sample project

<https://github.com/itskoBits/ToThePenny>

Symbolic breakpoints

# Let's find the code where

- A transaction is added to the model
- An icon for a category cell is set
- A category is animated while adding a transaction

# Symbolic Breakpoints

- `-[UIViewController presentViewController:animated:completion:]`
- `-[UINavigationController pushViewController:animated:]`
- Printing the first argument of a method - `po $arg3`

# Symbolic Breakpoints(2)

- `-[NSManagedObjectContext save:]`
- `-[UICollectionView dequeueReusableCellWithReuseIdentifier:indexPath:]`
- `tableView:didSelectRowAtIndexPath:`

LLDB



# LLDB

- `po indexPath`
- `next, step, continue` or `n, s, c`
- `expression -l swift --`
- `settings set target.language swift`

# LLDB (2)

- e let \$cell = unsafeBitCast(0x7fdf6c8eea00, to: UICollectionViewCell.self)
- e \$cell.backgroundColor = .red
  - e CATransaction.flush()
- e \$btn.actions(forTarget: \$target, forControlEvents: .touchUpInside)

# Chisel

<https://github.com/facebook/chisel>

# Installing Chisel

```
brew update
```

```
brew install chisel
```

# Chisel

- pvc
- pviews
  - pviews 0x7fdf6c44f8f0
- hide, show, mask, unmask
- alamborder

# Chisel (2)

- pbundlepath
- pdocspath
  - pdocspath -o
- slowanim - works on both simulator and devices!
- pactions

# Chisel (3)

- caflush
- pdata
- and many more! (<https://github.com/facebook/chisel/wiki>)

Thank you!