

What are Optionals	+ W	nat a	are	Opti	onals
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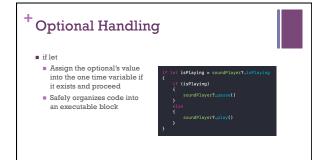
- \blacksquare A wrapper to hold a value that might be valid
- Designed to prevent inappropriate crashing of an
- Builds on Swift's design principle that nil is not a desired value 99% of the time
- All chances for nil must be explicitly handled in code starting at design

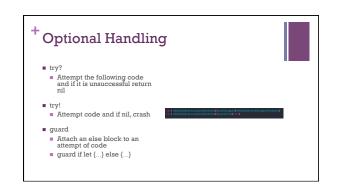
⁺Optional Type



- If you want a variable to be able to hold nil at some point it must be explicitly defined as an Optional Type
- All @IBOutlet instances must be an optional since there is a chance the GUI component may not be inflated when the page has loaded or may not have a value inside it

Poptional Value "? "Using this operator after the value indicates that the value will be "peeked at" and if the variable specified is not nil continue and evaluate the remainder of the statement. If the variable is nil do not execute the statement "! "Using this operator means force unwrap the value, and proceed. If the value is nil the app will crash if not caught





```
public class MediaPageController: UIViewController

(
@IBOutlet weak var imageFrame: UIImageView!
@IBOutlet weak var soundButton: UIButton!
@IBOutlet weak var soundSlider: UISlider!
```

```
Optional Value Example

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