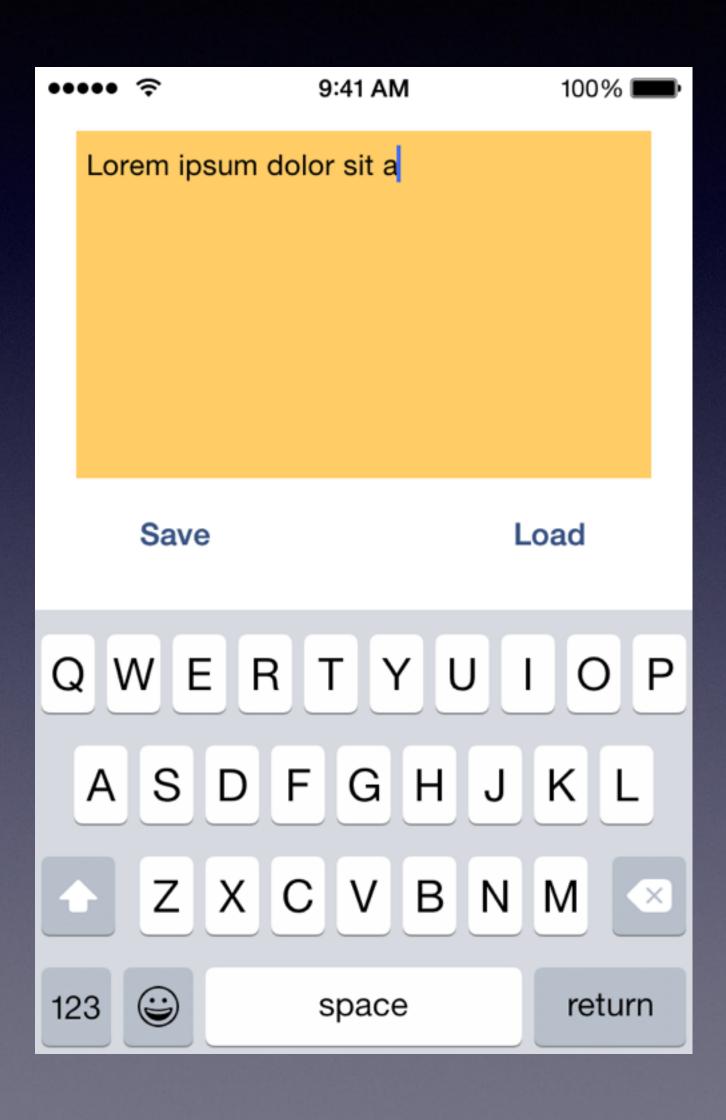
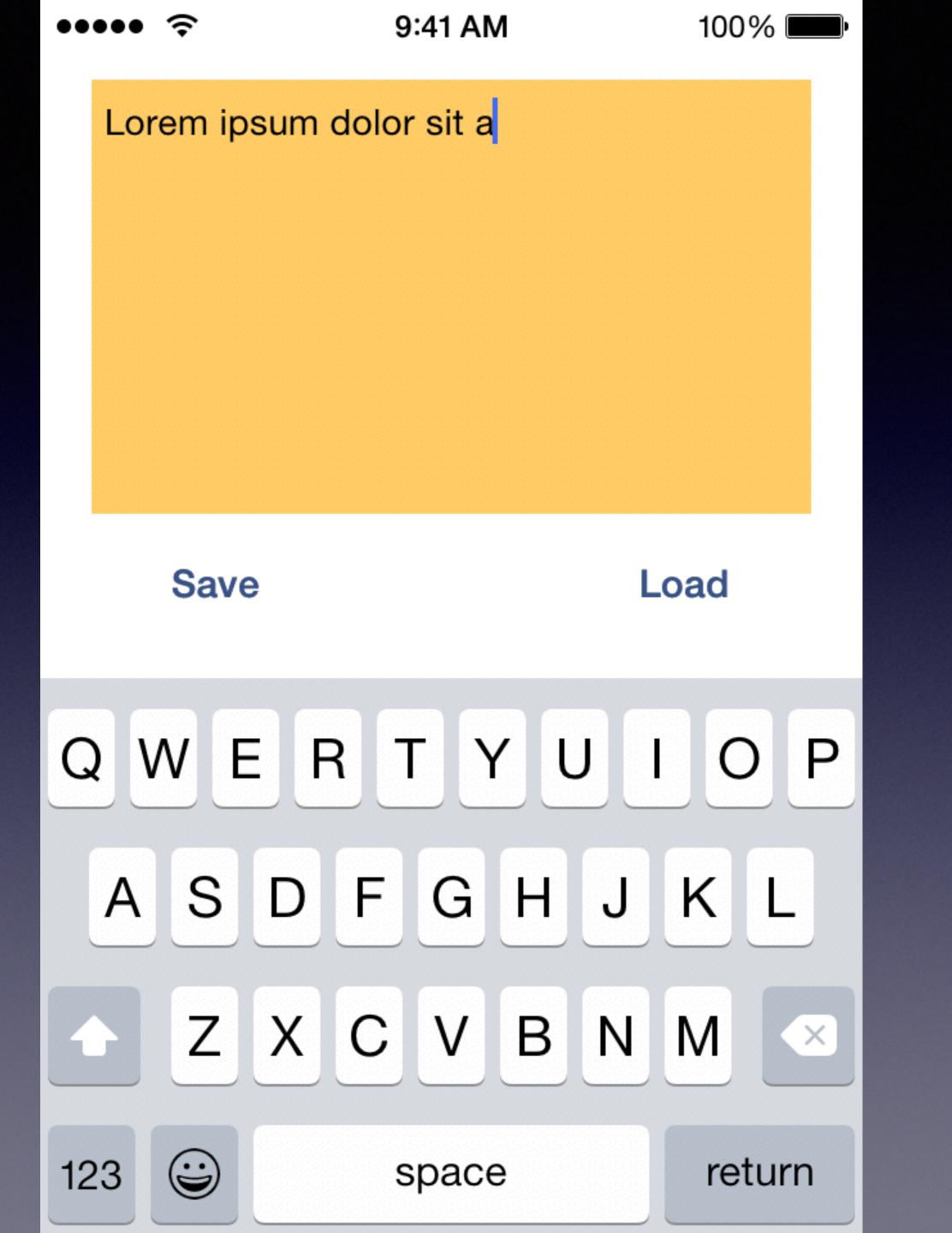
# Flaws in Tutorials, Screencasts, and Samplecode

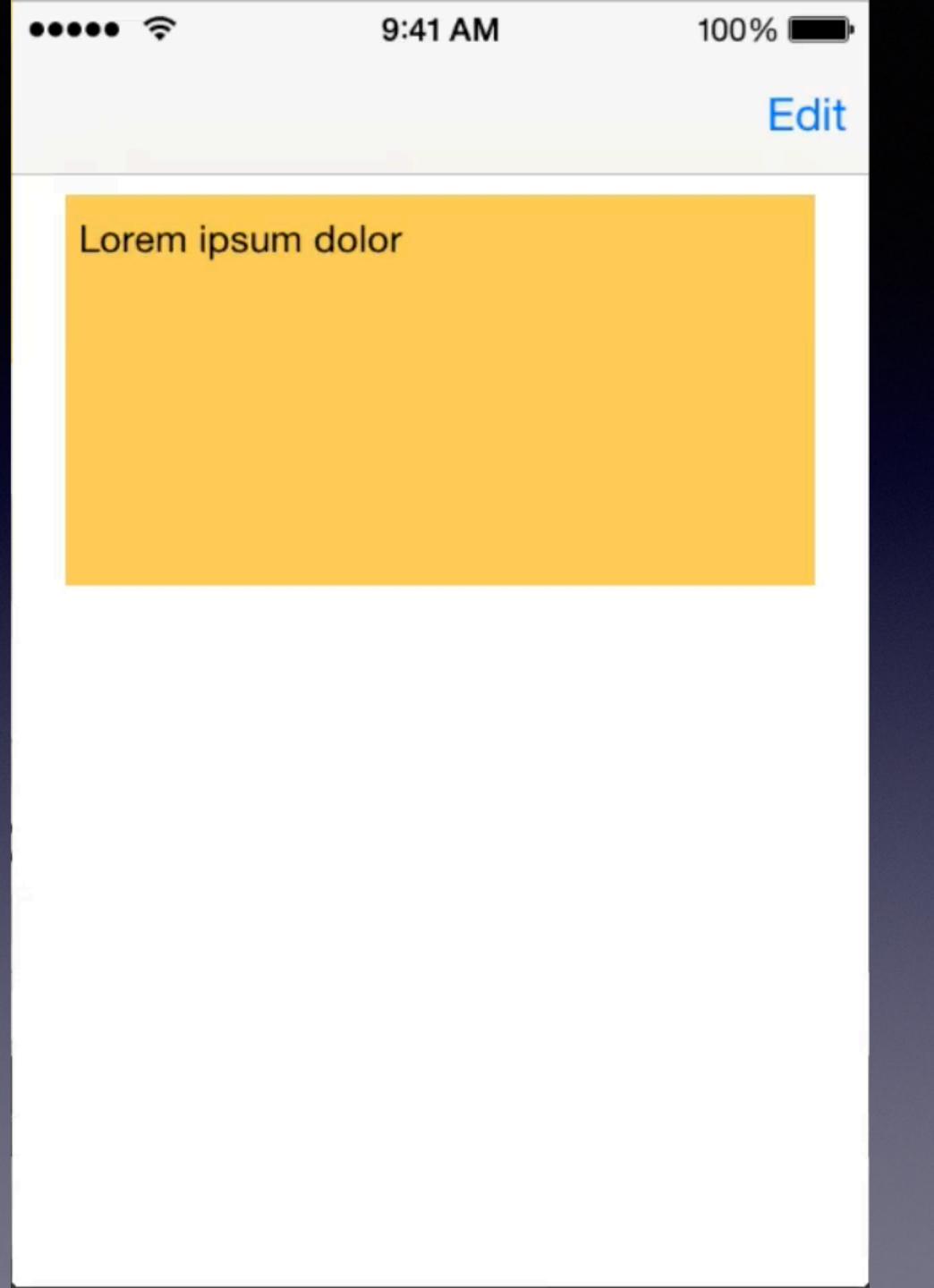
NSConference 7 Blitz Talk Tim Mecking (@sptim)

# Examples

```
-(IBAction)save:(id)sender {
 NSString *path=[NSString stringWithFormat:@"%@/Documents/text.txt",
                  NSHomeDirectory()];
  [self.textView.text writeToFile:path
                       atomically: YES
                         encoding:NSUTF8StringEncoding
                            error:nil];
-(IBAction)load:(id)sender {
 NSString *path=[NSString stringWithFormat:@"%@/Documents/text.txt",
                  NSHomeDirectory()];
  self.textView.text=[NSString stringWithContentsOfFile:path
                                                  encoding:NSUTF8StringEncoding
                                                     error:nil];
```







```
-(void)viewDidLoad {
  [super viewDidLoad];
  self.navigationItem.rightBarButtonItem=self.editButtonItem;
  [self load:self];
-(void)setEditing:(BOOL)editing animated:(BOOL)animated {
  [super setEditing:editing animated:animated];
  if(editing) {
    [self.textView becomeFirstResponder];
  else {
    [self.textView resignFirstResponder];
```

```
-(void)textViewDidBeginEditing:(UITextView *)textView {
   self.editing=YES;
}
-(void)textViewDidChange:(UITextView *)textView {
   self.navigationItem.leftBarButtonItem=self.undoButtonItem;
}
-(void)textViewDidEndEditing:(UITextView *)textView {
   self.editing=N0;
   [self save:self];
}
```

```
-(IBAction)save:(id)sender {
  [self.textView.text writeToFile:self.filePath
                       atomically: YES
                         encoding:NSUTF8StringEncoding
                            error:nil];
  self.navigationItem.leftBarButtonItem=nil;
-(IBAction)load:(id)sender {
  self.textView.text=[NSString stringWithContentsOfFile:self.filePath
                                                encoding:NSUTF8StringEncoding
                                                   error:nil];
  self.navigationItem.leftBarButtonItem=nil;
```

#### II. NSNotificationCenter

#### II. NSNotificationCenter

#### II. NSNotificationCenter

```
-(void)viewDidLoad {
  [super viewDidLoad];
  self.navigationItem.rightBarButtonItem=self.editButtonItem;
  [self load:self];
  NSNotificationCenter* notificationCenter=[NSNotificationCenter defaultCenter];
  [notificationCenter addObserver:self.textView
                         selector:@selector(resignFirstResponder)
                             name:UIApplicationDidEnterBackgroundNotification
                           object:nil];
-(void)dealloc {
  [[NSNotificationCenter defaultCenter] removeObserver:self.textView];
```

```
NSFileManager *manager=[NSFileManager defaultManager];

NSDictionary *mydic;
if((mydic=[manager attributesOfItemAtPath:@"/etc/hosts" error:NULL])==nil){
   NSLog(@"could not get file attributes");
   return 4;
}
else{
   NSLog(@"Size %i bytes", [[mydic objectForKey:NSFileSize]intValue]);
}
```

```
NSFileManager *fileManager=[NSFileManager defaultManager];
NSError *error;
NSDictionary *fileAttributes=[fileManager attributesOfItemAtPath:@"/etc/hosts"
                                                            error:&error];
if(fileAttributes==nil){
  NSLog(@"%@",error.localizedDescription);
  return 4;
else{
  NSLog(@"Size %llu bytes", fileAttributes.fileSize);
```

#### IV. Photo Database / Camera

#### IV. Photo Database / Camera

```
@interface UIImage (Redacted)

// makes a copy at a different size
- (UIImage *)imageByScalingToSize:(CGSize)size;

// applies filter as described in Friday section
- (UIImage *)imageByApplyingFilterNamed:(NSString *)filterName;

@end
```

#### IV. Photo Database / Camera

```
@interface UIImage (Redacted)

// makes a copy at a different size
- (UIImage *)redacted_imageByScalingToSize:(CGSize)size;

// applies filter as described in Friday section
- (UIImage *)redacted_imageByApplyingFilterNamed:(NSString *)filterName;

@end
```

# V. Blurring Images

### V. Blurring Images

```
@interface UIImage (ImageEffects)
- (UIImage *)applyLightEffect;
- (UIImage *)applyExtraLightEffect;
- (UIImage *)applyDarkEffect;
- (UIImage *)applyTintEffectWithColor:(UIColor *)tintColor;
- (UIImage *)applyBlurWithRadius:(CGFloat)blurRadius
                       tintColor:(UIColor *)tintColor
           saturationDeltaFactor:(CGFloat)saturationDeltaFactor
                       maskImage:(UIImage *)maskImage;
@end
```

### V. Blurring Images

```
@interface UIImage (ImageEffects)
- (UIImage *)aapl_applyLightEffect;
- (UIImage *)aapl_applyExtraLightEffect;
- (UIImage *)aapl_applyDarkEffect;
- (UIImage *)aapl_applyTintEffectWithColor:(UIColor *)tintColor;
- (UIImage *)aapl_applyBlurWithRadius:(CGFloat)blurRadius
                            tintColor:(UIColor *)tintColor
                saturationDeltaFactor: (CGFloat) saturationDeltaFactor
                            maskImage:(UIImage *)maskImage;
@end
```

# VI. UICatalog

### VI. UICatalog

```
AppDelegate.h
AppDelegate.m
Constants.h
main.m
Picker/CustomPickerDataSource.h
Picker/CustomPickerDataSource.m
Picker/CustomView.h
Picker/CustomView.m
ViewControllers/AlertsViewController.h
ViewControllers/AlertsViewController.m
ViewControllers/ButtonsViewController.h
ViewControllers/ButtonsViewController.m
ViewControllers/ControlsViewController.h
ViewControllers/ControlsViewController.m
ViewControllers/ImagesViewController.h
ViewControllers/ImagesViewController.m
ViewControllers/MainViewController.h
```

### VI. UICatalog

```
Objective-C/UICatalog/AAPLActivityIndicatorViewController.h
Objective-C/UICatalog/AAPLActivityIndicatorViewController.m
Objective-C/UICatalog/AAPLAlertControllerViewController.h
Objective-C/UICatalog/AAPLAlertControllerViewController.m
Objective-C/UICatalog/AAPLAppDelegate.h
Objective-C/UICatalog/AAPLAppDelegate.m
Objective-C/UICatalog/AAPLButtonViewController.h
Objective-C/UICatalog/AAPLButtonViewController.m
Objective-C/UICatalog/AAPLCustomSearchBarViewController.h
Objective-C/UICatalog/AAPLCustomSearchBarViewController.m
Objective-C/UICatalog/AAPLCustomToolbarViewController.h
Objective-C/UICatalog/AAPLCustomToolbarViewController.m
Objective-C/UICatalog/AAPLDatePickerController.h
Objective-C/UICatalog/AAPLDatePickerController.m
Objective-C/UICatalog/AAPLDefaultSearchBarViewController.h
Objective-C/UICatalog/AAPLDefaultSearchBarViewController.m
Objective-C/UICatalog/AAPLDefaultToolbarViewController.h
```

## VII. Building a Framework

### VII. Building a Framework

```
@interface RWRibbonView : UIView
```

@end

### VII. Building a Framework

```
@interface RWUIRibbonView : UIView
```

@end

### Conclusions

### Things to Avoid

- Undocumented Tricks / Shortcuts
  - Relying on Filesystem Hierarchy (or View Hierarchy)
- Non HIG Compliant UI
- Doubling System Functionality

### Naming Rules & Conventions

- Follow Apple's "Coding Guidelines for Cocoa"
- Always choose verbose & descriptive names
- Prefixing class names is recommended
  - 2 letter prefixes are reserved for Apple Frameworks. Use 3 or more uppercase letters.
- Never omit a prefix in a category method of a class you don't control
  - Use lowercase letters and a underscore as prefix.

### Missing Topics

- Testing
- Discussion on Designated Initializers
- Special Cases in Subclassing
  - Class Clusters
  - Delegates or other classes implementing an interface with optional methods

### Thank you

https://github.com/sptim/flaws