Form Validation

Flexibility, Composition, Reusability

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Flexibility, Composition, Reusability

- Should be plug 'n play for existing projects
- Handle various forms and field types
- Individual field validation

Great for composition, removes dependency on other classes

```
@protocol SPXDataValidator <NSObject>
- (BOOL)validateValue:(id)value error:(out NSError * __autoreleasing *)error;
@end
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- Cocoa Conventions

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- Cocoa Conventions
- Error handling is optional

```
aprotocol SPXDataValidator <NSObject>
```

```
- (BOOL)validateValue:(id)value error:(out NSError * __autoreleasing *)error;
@end
```

- Cocoa Conventions
- Error handling is optional
- Value can be any kind of object

Email Validator

```
- (BOOL)validateValue:(id)value error:(out NSError *__autoreleasing *)error
  if ([value respondsToSelector:@selector(length)]) {
    NSRegularExpression *regex = [self regularExpression];
   NSUInteger matchCount = [regex numberOfMatchesInString:value options:0
                                                     range:NSMakeRange(0, [value length])];
    if (!matchCount && error) {
      *error = [NSError errorWithDomain:self.errorDomain
                                   code:self.errorCode
                               userInfo:self.errorInfo];
    return matchCount;
  return NO;
```

What about multiple validators?

Compound Validator

Core Data

NSManagedObject

```
- (BOOL)validateValue:(__autoreleasing id *)value
               forKey:(NSString *)key
                error:(NSError * autoreleasing *)error
  if ([key isEqualToString:@"email"]) {
    SPXEmailDataValidator *validator = [SPXEmailDataValidator new];
    BOOL is Valid = [validator validate:*value error:error];
    return is Valid;
  return YES;
```

What about User Interface Controls?

— UITextField, UITextView, etc...

UITextField (SPXDataValidatorAdditions)

```
@interface UITextField (SPXDataValidatorAdditions)
@property (nonatomic, strong) id <SPXDataValidator> validator;
@end
```

- (void)applyValidator:(id<SPXDataValidator>)validator;

UITextField (SPXDataValidatorAdditions)

```
- (BOOL)validateWithError:(out NSError *__autoreleasing *)error
{
  if (!self.validator) {
    return YES;
  }
  return [self.validator validateValue:self.text error:error];
}
```

Form Validation

```
- (BOOL)isFormReady
 for (UITextField *field in self.fields) {
   if (![field validateWithError:nil]) {
      return NO;
 return YES;
- (void)textFieldDidChange:(UITextField *)textField
 self.signInButton.enabled = [self isFormReady];
```

Get the code?

http://github.com/shaps80/SPXFormValidators

Please submit PRs for useful validators;)

pod 'SPXFormValidators'

http://twitter.com/shaps