```
#import "Foo.h"
                                               #include <objc/runtime.h>
                                               void dynamicMethodIMP(id self, SEL _cmd) {
                                                  NSLog(@" >> dynamicMethodIMP");
                                               @implementation Foo
                                               -(void)Bar
                                                  NSLog(@" >> Bar() in Foo");
                                               + (BOOL)resolveInstanceMethod:(SEL)name
                                                  NSLog(@" >> Instance resolving %@", NSStringFromSelector(name));
                            动态方法解析
                                                  if (name == @selector(MissMethod)) {
                                                     class_addMethod([self class], name, (IMP)dynamicMethodIMP, "v@:");
                                                    return YES;
                                                  return [super resolveInstanceMethod:name];
                                               + (BOOL)resolveClassMethod:(SEL)name
                                                  NSLog(@" >> Class resolving %@", NSStringFromSelector(name));
                                                  return [super resolveClassMethod:name];
                                               @end
                                           - (id)forwardingTargetForSelector:(SEL)aSelector{
                                              NSLog(@"%s",__func__);
                                              return [super forwardingTargetForSelector:aSelector];
                                           – (NSMethodSignature *)methodSignatureForSelector:(SEL)aSelector{
                                              NSLog(@"%s",__func__);
                                              if (aSelector == @selector(run)) {
                                                 // forwardingTargetForSelector 没有实现 就只能方法签名了
                                                 Method method = class_getInstanceMethod(object_getClass(self), @selector(readBook));
                            消息转发
                                                 const char *type = method_getTypeEncoding(method);
                                                 return [NSMethodSignature signatureWithObjCTypes:"v@:@"];
                                              return [super methodSignatureForSelector:aSelector];
                                           – (void)forwardInvocation:(NSInvocation *)anInvocation{
                                              NSLog(@"%s",__func__);
                                                                                                                       .m 需手动实现set和get方法
                                                                                                                       #import "UIControl+RYButton.h"
                                                                                                                       #import <objc/runtime.h>
                                                                                                                       static const char * RY_CLICKKEY = "ry_clickkey";
                                                                                                                       @implementation UIControl (RYButton)
                                                          #import <UIKit/UIKit.h>
                                                                                                                       – (void)setRy_time:(NSTimeInterval)ry_time{
Runtime 示例代码
                                                          @interface UlControl (RYButton)
                                                                                                                         objc_setAssociatedObject(self, RY_CLICKKEY, @(ry_time),
                                                          // 声明一个时间间隔
                                                                                                                       OBJC_ASSOCIATION_RETAIN_NONATOMIC);
                             添加属性(分类, 关联方法)
                                                          @property (assign,nonatomic)NSTimeInterval ry_time;
                                                          @end
                                                                                                                       - (NSTimeInterval)ry_time{
                                                                                                                         return [objc_getAssociatedObject(self, RY_CLICKKEY) doubleValue];
                                                                                                                       @end
                                                          UIButton * button = [UIButton buttonWithType:UIButtonTypeCustom];
                                                                                                                                    移除关联:objc_removeAssociatedObjects(self)
                                                         button.ry_time = 1.0f;
                                               Person *p = [[Person alloc]init];
                                               [p performSelector:@selector(eat:)withObject:@"log"]
                                               +(BOOL)resolveInstanceMethod:(SEL)sel
                                                  if (sel == @selector(eat:)) {
                                                     class_addMethod(self, sel, (IMP)aaaa , "v@:@");
                                                    return YES;
                            动态添加方法
                                                  return [super resolveInstanceMethod:sel];
                                               void aaaa(id self ,SEL _cmd,id Num)
                                                  // 实现内容
                                                  NSLog(@"%@的%@方法动态实现了,参数
                                               为%@",self,NSStringFromSelector(_cmd),Num);
                                           将UllmageView的
                                           initWithImage:方法换成一个自
                                           定义的方法.
                                           #import "UllmageView+category.h"
                                           #import <objc/runtime.h>
                                            + (void)initialize{
                                              Method m1 = class_getInstanceMethod([UllmageView class],
                                           @selector(initWithImage:));
                                              Method m2 = class_getInstanceMethod([UIImageView class],
                            交换方法
                                           @selector(initWithResizableImage:));
                                              method_exchangeImplementations(m1, m2);
                                           - (instancetype)initWithResizableImage:(Ullmage *)image {
                                              NSLog(@"新方法");
                                              return [[UllmageView alloc]init];
                                           @end
                                           1遍历代码:
                                           unsigned int count = 0;
                                              lvar *ivars = class_copylvarList([UIPageControl class], &count);
                                              for (int i = 0; i < count; i++) {
                                                 lvar ivar = ivars[i];
                                                 //获取所有属性
                                                 const char *property = ivar_getName(ivar);
                                                 NSLog(@"%@",[[NSString alloc]initWithCString:property
                             遍历属性
                                           encoding:NSUTF8StringEncoding]);
                                           2 利用KVC给私有属性赋值setValue:forKey:
                                           [self.pageControl setValue:[Ullmage imageNamed:@"compose_keyboard_dot_normal"]
                                           forKey:@"_pageImage"];
                                              [self.pageControl setValue:[Ullmage imageNamed:@"compose_keyboard_dot_selected"]
```

forKey:@"_currentPageImage"];

(v1#nxb)