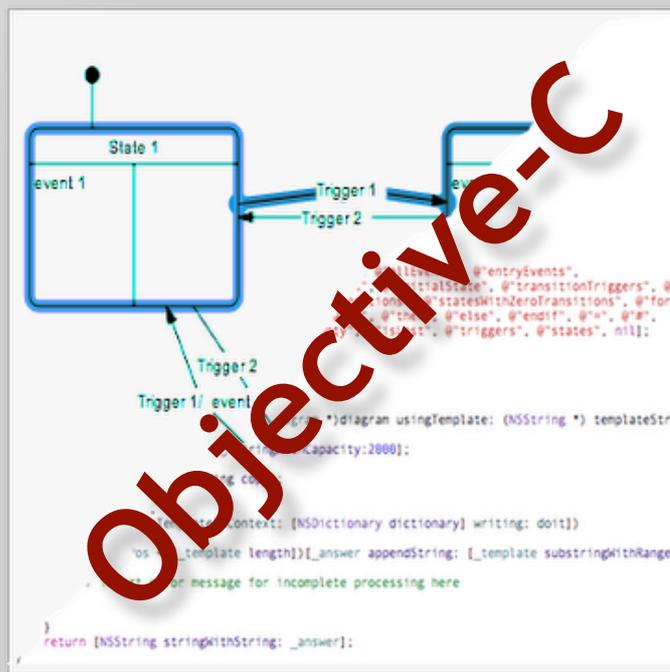
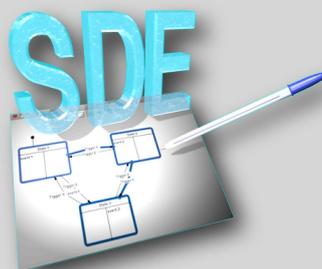


A Template for Objective-C Code Generation



Code Templates for the State Diagram Editor



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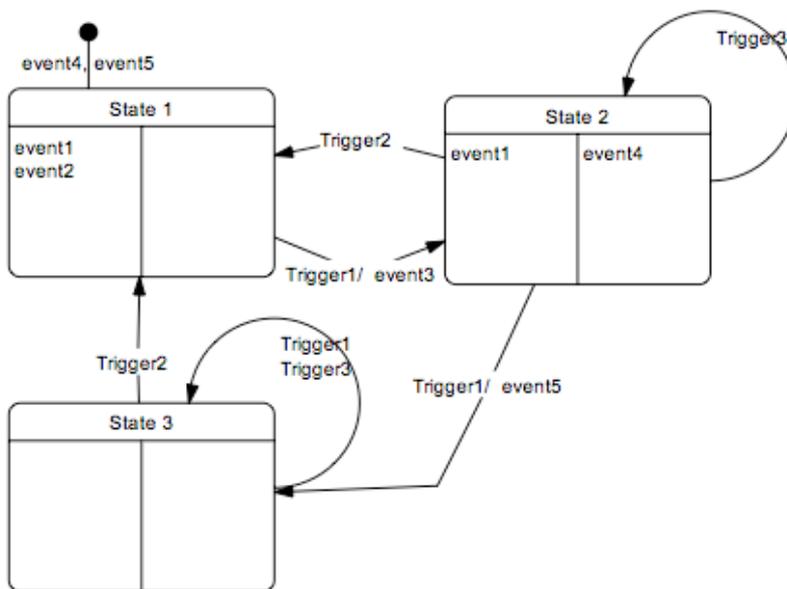
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A Template for Objective-C Code Generation

The template Objective-C.codetemplate is used to generate an Objective-C class which can be used in the responder chain to process actions from UI elements or from nil targeted actions sent to NSApp. Events defined in the diagram are processed as nil-targeted actions too, so interconnecting state diagrams is done simply by using identical names for triggers and events.

In this code template, zero-transitions are treated differently: While a zero-transition causes neither a state change, nor does it trigger an event, it causes the object to answer YES to the respondsToSelector: message. So the trigger will be processed by the diagram and will not be transferred to the next object in the responder chain. Therefore defining zero transitions in a state will block the triggers of these zero transitions from all responders following, while triggers not processed in the actual state will be sent down the responder chain.



The example diagram

States	Trigger1	Trigger2	Trigger3
State 1	State 2	State 1	State 1
State 2	State 3	State 1	State 2
State 3	State 3	State 1	State 3

The table representation of the example diagram. Zero transitions can be identified by the yellow cell background color

Interface Definition generated from the Example Diagram:

```
// Code generated by StateDiagramEditor (c) Copyright 2010 Stefan Sachs www.ssachs.de
// (c) Copyright for template 2009 Stefan Sachs
// generated from diagram demo at 2010-03-12 17:18:00 +0100
#import <Cocoa/Cocoa.h>
@interface demo: NSObject {

```

```

    int _actualState;
    NSResponder * precedingResponder;
}

-(void)initDiagram;
-(void)becomeResponderAfter: (NSResponder *) anotherResponder;
-(void)resignResponder;

-(IBAction) Trigger1: (id)sender;
-(IBAction) Trigger2: (id)sender;
-(IBAction) Trigger3: (id)sender;
@end

enum {
    State1,
    State2,
    State3};

```

Objective-C Code generated from the Example Diagram:

```

// Code generated by StateDiagramEditor (c) Copyright 2010 Stefan Sachs www.ssachs.de
// Free version, not for commercial use
// commercial use of this generated code is illegal
// (c) Copyright for template 2009 Stefan Sachs
// generated from diagram demo at 2010-03-15 08:55:13 +0100
#import "demo.h"

```

```
@implementation demo
```

```

-(void)initDiagram
{
    _actualState = State1;
    [NSApp addAction: NSSelectorFromString(@"event4:") to: nil from: self];
    [NSApp addAction: NSSelectorFromString(@"event5:") to: nil from: self];
    [NSApp addAction: NSSelectorFromString(@"event1:") to: nil from: self];
    [NSApp addAction: NSSelectorFromString(@"event2:") to: nil from: self];
}

-(void)becomeResponderAfter: (NSResponder *) anotherResponder
{
    NSResponder * nRe = [anotherResponder nextResponder];
    [anotherResponder setNextResponder: self];
    [self setNextResponder: nRe];
    precedingResponder = anotherResponder;
}

-(void)resignResponder
{
    [precedingResponder setNextResponder: [self nextResponder]];
}

-(IBAction) Trigger1: (id)sender
{
    switch(_actualState)
    {
        case State1:
            [NSApp addAction: NSSelectorFromString(@"event3:") to: nil from: self];
            [NSApp addAction: NSSelectorFromString(@"event1:") to: nil from: self];
            _actualState = State2;
            break;
        case State2:
            [NSApp addAction: NSSelectorFromString(@"event4:") to: nil from: self];
            [NSApp addAction: NSSelectorFromString(@"event5:") to: nil from: self];
            _actualState = State3;
            break;
        default:
            break;
    }
}

-(IBAction) Trigger2: (id)sender
{
    switch(_actualState)

```

```

{
    case State2:
        [NSApp sendAction: NSSelectorFromString(@"event4:") to: nil from: self];
        [NSApp sendAction: NSSelectorFromString(@"event1:") to: nil from: self];
        [NSApp sendAction: NSSelectorFromString(@"event2:") to: nil from: self];
        _actualState = State1;
        break;
    case State3:
        [NSApp sendAction: NSSelectorFromString(@"event1:") to: nil from: self];
        [NSApp sendAction: NSSelectorFromString(@"event2:") to: nil from: self];
        _actualState = State1;
        break;
    default:
        break;
}
}
-(IBAction) Trigger3: (id)sender
{
    switch(_actualState)
    {
        default:
            break;
    }
}

- (BOOL)respondToSelector:(SEL)aSelector
{
    NSString * sel = NSStringFromSelector(aSelector);
    switch(_actualState)
    {
        case State1:
            return [[NSArray arrayWithObjects: @"Trigger1:", nil] containsObject: sel];
        case State2:
            return [[NSArray arrayWithObjects: @"Trigger1:", @"Trigger2:", @"Trigger3:",
nil] containsObject: sel];
        case State3:
            return [[NSArray arrayWithObjects: @"Trigger2:", @"Trigger1:", @"Trigger3:",
nil] containsObject: sel];
        default:
            return NO;
    }
}

@end

```


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