

AspectJ Notes for soen6441

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In order to extract some information on possible join points I did the following.

```
before() : within(Book) {  
    System.out.println("Something happened inside Book | " + thisJoinPoint);  
}
```

Gives us some of the following output

```
Something happened inside of book | staticinitialization(cc.domain.Book.<clinit>)  
Something happened inside of book | preinitialization(cc.domain.Book(String, String, String,  
Something happened inside of book | set(String cc.domain.Book.author)  
Something happened inside of book | execution(cc.domain.Book(String, String, String, String,  
Something happened inside of book | initialization(cc.domain.Book(String, String, String, St
```

Basic examples

This is the class we will be messing with:

```
package dom;  
  
public class Pet  
{  
    /** Make some pet noise */  
    public void noise(){  
        System.out.println( "WARGABL GABL");  
    }  
  
    /** Pets do not talk... But they do with aspects. */  
    public String talk(){  
        return "WOOF WOOF WOOF.";  
    }  
}
```

This is the driver we are using:

```
package dom;

import java.io.PrintStream;

public class Test
{
    private static PrintStream p = System.out;
    public static void main(String[] args){
        Pet pet = new Pet();
        pet.noise();
        p.println(pet.talk());
    }
}

package aspects;

import java.io.PrintStream;

import dom.*;

public aspect TestAspect {
    private static PrintStream p = System.out;
    before() : call(void Pet.noise()) {p.println("Pet.noise called");};
    after() : execution(void Pet.noise()) {p.println("Pet.noise executed");};
    String around() : call(String Pet.talk()) {
        return "HELLO THERE FINE FELLOW.";
    }
}
```