

Source files

```
@AuthenticatorSubject
@ModelEntity
public class MySubject {

    ...

    @RequiresAuthentication
    void foo(){
        ...
    }

    ...
}
```

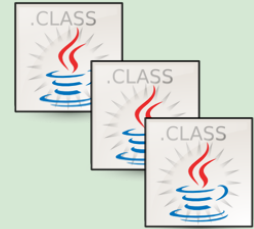
```
public class Main{
    public void main(String[] args){
        ...
        mySubject.foo();
        ...
    }
}
```

```
@Authenticator
@ModelEntity
public class MyAuthenticator {

    ...
}
```

compilation

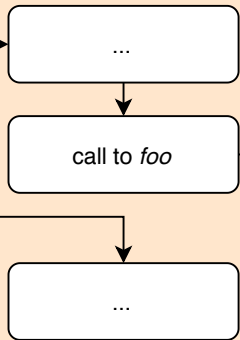
Java bytecode



execution

Runtime

Userland



Java Virtual Machine



PAMELA

AuthenticatorPatternDefinition

isMethodInvolvedInPattern
returns true

ProxyMethodHandler

Dispatch the call to the
AuthenticatorPatternInstance

execute the *foo* method

Dispatch the call to the
AuthenticatorPatternInstance

Dispatch the return value to the
caller

AuthenticatorPatternInstance

call to *processMethodBeforeInvoke*

call to
checkContractBeforeInvoke()

call to *performAuthentication()*

call to *processMethodAfterInvoke*

call to
checkContractAfterInvoke()