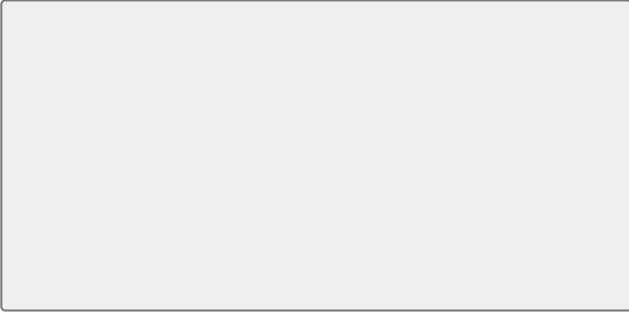# Using Extension with Standard/Custom controllers

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A **controller extension** is any Apex class containing a constructor that takes a single argument of type `ApexPages.StandardController` or `CustomControllerName`, where CustomControllerName is the name of a custom controller you want to extend.

Use controller extensions when:

- Standard Controller :- You want to leverage the built-in functionality of a standard controller but override one or more actions, such as edit, view, save, or delete.
- Custom Controller :- You want to add new actions or you can use a method in a different controller (which helps to eliminate code duplication)

Sample Extension class for Standard Controller

```
public class stdControllerExtension {

    public stdControllerExtension(ApexPages.StandardController sc) {
        // your code
    }

    ...
    // your methods goes here
    ...
}
```

Sample Visualforce page

```
<apex:page standardController="Account" extensions="stdControllerExtension">
```

Sample Extension class for Custom Controller

Lets say your custom controller name is `DemoController` then you can add extension as follows

```
public class controllerExtension {

    public controllerExtension(DemoController dc) {
        // your code
    }

    ...
    // your methods goes here
    ...
}
```

Sample Visualforce page

```
<apex:page controller="DemoController" extensions="controllerExtension">
```