

# How do we upload files

You can obtain the `MultipartRequestWrapper` from the `ServletActionContext` or by utilizing the `fileUpload` interceptor. The `fileUpload` interceptor is preferred.

See the [file upload page](#) for more examples and advanced configuration


## Ask the ServletActionContext

```
MultipartRequestWrapper multipartRequest = ((MultipartRequestWrapper)ServletActionContext.getRequest())
```

The `MultipartRequestWrapper` provides access methods such as `getFiles`, `getFile`, `getContentType`, `hasErrors`, `getErrors`, and so forth, so that you can process the file uploaded.

## Utilize the fileUpload Interceptor

### ★ Preferred

- Ensure that `fileUpload` Interceptor is included in the Action's stack.
  -  *The default stack already includes `fileUpload`.*
- Ensure that the HTML form sets the `enctype` and specifies on or more file type inputs.

```
<form name="myForm" enctype="multipart/form-data">
  <input type="file" name="myDoc" value="Browse ..." />
  <input type="submit" />
</form>
```

- Ensure that the Action provides one or more `fileUpload` mutator methods, with names that correspond to name of the file type input.

```
public void setMyDoc(File myDoc)
public void setMyDocContentType(String contentType)
public void setMyDocFileName(String filename)
```

- The Action may also provide the corresponding accessor methods.

```
public File getMyDoc()
public String getMyDocContentType()
public String getMyDocFileName()
```

## Handling multiple files

When multiple files are uploaded by a form, the files are represented by an array.

Given:

```
<form name="myForm" enctype="multipart/form-data">
  <input type="file" name="myDoc" value="Browse File A ..." />
  <input type="file" name="myDoc" value="Browse File B ..." />
  <input type="file" name="myDoc" value="Browse File C ..." />
  <input type="submit" />
</form>
```

The Action class can define file handling methods that accept an array.

```
public void setMyDoc(File[] myDocs)
public void setMyDocContentType(String[] contentTypes)
public void setMyDocFileName(String[] fileNames)
```

The uploaded files can be handled by iterating through the appropriate array.

## Extra Information

Property	Default
struts.multipart.parser	Commons FileUpload
struts.multipart.saveDir	javax.servlet.context.tempdir as defined by container
struts.multipart.maxSize	Approximately 2M

@see struts.properties

@see org.apache.struts2.dispatcher.FilterDispatcher#doFilter(ServletRequest, ServletResponse, FilterChain)

@see org.apache.struts2.dispatcher.DispatcherUtil#wrapRequest(HttpServletRequest, ServletContext)

@see org.apache.struts2.dispatcher.multipart.MultipartRequestWrapper

@see org.apache.struts2.interceptor.FileUploadInterceptor