

# Git

## Git Component

Available as of Camel 2.16

The **git** component allows you to work with a generic Git repository.

```
<dependency>
  <groupId>org.apache.camel</groupId>
  <artifactId>camel-git</artifactId>
  <version>x.x.x</version>
  <!-- use the same version as your Camel core version -->
</dependency>
```

### URI Format

```
git://localRepositoryPath[?options]
```

### URI Options

The producer allows to do operations on a specific repository.

The consumer allows consuming commits, tags and branches on a specific repository.

Name	Default Value	Type	Context	Description
localPath	null	String	Shared	The path to the local Git repository
remotePath	null	String	Shared	The path to the remote Git repository
remoteName	null	String	Shared	The remote name useful for particular operation like push and pull
operation	null	String	Producer	The operation to perform. Currently supports the following values: <b>clone</b> , <b>init</b> , <b>add</b> , <b>remove</b> , <b>commit</b> , <b>commitAll</b> , <b>createBranch</b> , <b>deleteBranch</b> , <b>createTag</b> , <b>deleteTag</b> , <b>status</b> , <b>log</b> , <b>push</b> , <b>pull</b> , <b>showBranches</b> , <b>cherryPick</b> .
branchName	null	String	Producer	The name of the branch to work on
tagName	null	String	Producer	The tag of the branch to work on
username	null	String	Producer	The username to use in authentication phase to the git repository
password	null	String	Producer	The password to use in authentication phase to the git repository
type	null	String	Consumer	The type of consumer. Currently supports the following values: <b>commit</b> , <b>tag</b> , <b>branch</b>

### Message Headers

Name	Default Value	Type	Context	Description
CamelGitOperation	null	String	Producer	The operation to do on a repository, if not specified as endpoint option
CamelGitFilename	null	String	Producer	The file name in an add operation
CamelGitCommitMessage	null	String	Producer	The commit message related in a commit operation
CamelGitCommitUsername	null	String	Producer	The commit username in a commit operation
CamelGitCommitEmail	null	String	Producer	The commit email in a commit operation
CamelGitCommitId	null	String	Producer	The commit id

### Producer Example

Below is an example route of a producer that add a file test.java to a local repository, commit it with a specific message on master branch and then push it to remote repository.

```
from("direct:start")
    .setHeader(GitConstants.GIT_FILE_NAME, constant("test.java"))
    .to("git:///tmp/testRepo?operation=add")
    .setHeader(GitConstants.GIT_COMMIT_MESSAGE, constant("first commit"))
    .to("git:///tmp/testRepo?operation=commit")
    .to("git:///tmp/testRepo?operation=push&remotePath=https://foo.com/test/test.
git&username=xxx&password=xxx")
```

## Consumer Example

Below is an example route of a consumer that consumes commit:

```
from("git:///tmp/testRepo?type=commit")
    .to(...)
```