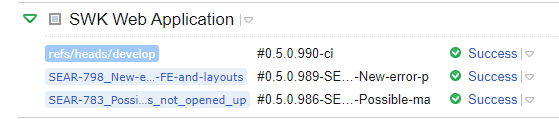
# Git Flow - Releases

Release branches are the

assigned to a build (resulting to a git versioned package). Looking at the screenshot below…



Referring to the develop branch build, we see a version 0.5.0.990-ci; this can be split into [majo].[minor].[patch].[build]-[tag]. To name our release branch, we use the major, minor, and patch, hence our release branch will be named “0.5.0”.

## Starting A Release

1. Navigate to the repo folder in local file system:
   * cd C:\Users\rgavino\source\repos
2. Create project repo folder:
   * mkdir SWK
3. Navigate to project repo folder:
   * cd SWK
4. Clone the repository:
   * git clone https://prsvso.visualstudio.com/SearchWorks/\_git/SearchWorks

NOTE: this creates a folder named after the repository (SearchWorks) cloned

1. Navigate to cloned repository folder:
   * cd SearchWorks
2. Pull down branches from the origin:
   * git checkout develop
   * git checkout master (or main)
3. Initialise GitFlow:
   * git flow init

NOTE: accept defaults

1. Ensure local develop branch is up to date:
   * git checkout develop
   * git pull
2. Create and publish release branch:
   * git flow release start 0.5.0
   * git flow release publish 0.5.0

The Continous Integration/Continuous Delivery platform is configured to monitor release branches. Hence when changes are committed to your release branch, it will trigger a build and deployment process. Release branches can be promoted all the way through to Production.

## Fixing (BugFix) A Release

1. Ensure local release branch is up to date:
   * git checkout release/0.5.0
   * git pull
2. Create and publish a bugfix branch:
   * git checkout -b bugfix/0.5.0-SEAR-999
   * git push -u origin bugfix/0.5.0-SEAR-999
3. Implement bug fix - treat bugfix branch like feature branch:
   * Committing code changes will trigger build and deploy.
   * When bug fix implementations are complete, submit Pull Request to active release branch.

The Continous Integration/Continuous Delivery platform is configured to monitor bugfix branches. Hence when changes are committed to your bugfix branch, it will trigger a build and deployment process. Bugfix branches can be promoted all the way through to Staging.

## Finishing A Release

1. Ensure local develop branch is up to date:
   * git checkout develop
   * git pull
2. Ensure local master branch is up to date:
   * git checkout master
   * git pull
3. Prepare (local) to finish release branch:
   * git checkout release/0.5.0
   * git pull
   * git flow release finish 0.5.0
   * Follow instructions to provide supporting text for:-
     + Merging to develop branch
     + Merging to master branch
     + Release tag
       - press "i" (i for insert)
       - write your merge message
       - press "esc" (escape)
       - write ":wq" (write & quit)
       - then press enter
4. Push merge to Origin:
   * git checkout master
   * git push
   * git checkout develop
   * git push
5. Push tags to Origin:
   * git push origin –tags