

# Bitbucket & Sourcetree

Version Control in Westpac

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# Environment Setup

1. [Access to Bitbucket](#)
2. [Install Sourcetree client](#)
3. [Set up SSH key](#)
4. Create a repository for your team
5. Create a Jira board for your project



# Intro to Git

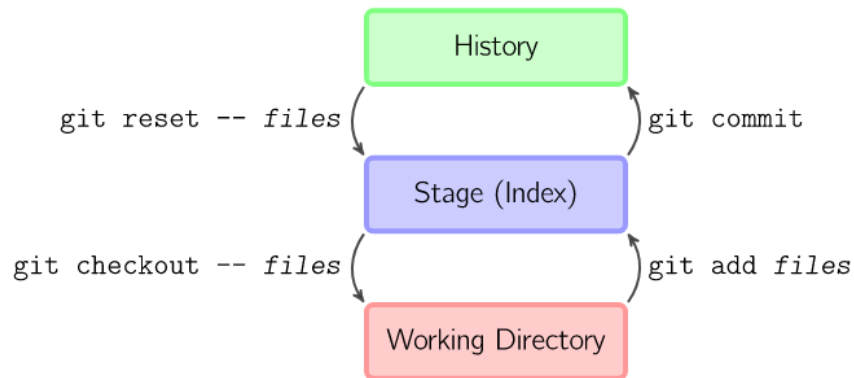
## Basic Concept

Working Directory (*What you see in your editor*)

Staging area (Index)

Local Repository

Remote Repository (Bitbucket etc)



# Intro to Git

Sourcetree Interface

Bookmark Windows: Switch between projects, repositories

Toolbar: basic operations

Sidebar: file status, search bar

Viewing histories & diffs

# Intro to Git

Bitbucket Interface

Repositories

Branches

Pull Requests

Issues

Account Setting

Manage Repositories (Repo permission, Branch permission)

# Basic Operations

How to save and publish your changes

Stage files (= git add): save files to staging area/Index

Commit (= git commit): save changes to your local repo

- Integration with Jira
- How to write meaningful commit message?

Push: Publish your local changes to remote repo

Pull: Apply the latest changes from remote repo to your local repo

# Basic Operations

Undo Changes

## **git checkout**

Set HEAD to the specific commit state and create a “detached HEAD” mode

## **git revert**

create new commit message and revert the previous state

## **git reset**

remove the previous commit at all

## **undo unsaved changes**

discard hunk

# Basic Operations

rewrite histories

Change the last commit message

- `git commit -amend`

Combine multiple commit messages into one

- `git squash`
- `interactive rebase`



# Collaboration

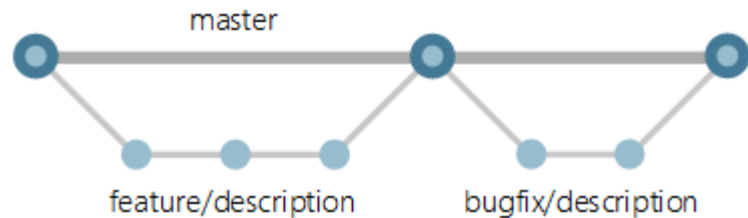
Feature branch workflow

What is Feature Branch Workflow?

How to create branch

Branch naming convention

- master
- dev
- feature/XXX
- hotfix/XXX
- release/X.X



# Collaboration

## Merge & Pull Request

“pull requests” are a mechanism for a developer to notify team members that they have completed a feature.

Create Pull Request in Bitbucket

How to resolve Merge Conflict?

# Reference

1. [Make a pull request](#)
2. [Sourcetree get started](#)
3. [Bitbucket Interface](#)
4. [How to undo things in Git?](#)