

SACRA Development Workflow

This document outlines the **standard Git workflow** for all contributors to the SACRA codebase. It ensures the `main` branch remains stable, and collaborative work proceeds smoothly.

Main Branch Protection Policy (to be determined by Kiuchi-san)

- The `main` branch is protected.
- **No direct push is allowed** to `main`.
- All changes must go through **pull requests** and be ****approved** by Kenta Kiuchi before merging.
- Contributors **must update their local `main`** before merging anything.

Standard Git Workflow

Follow the steps below for every new development or bugfix:

1. Clone the Repository (only once)

```
git clone https://github.com/YOUR-ACCOUNT/sacra.git
cd sacra
```

2. Always Start with a Clean, Updated `main`

```
git checkout main
git pull origin main # This step is mandatory before merging
```

Never skip `git pull`. This ensures your `main` is up to date and avoids merge conflicts or overwriting others' changes.

3. Create a New Branch for Your Work

```
git checkout -b your-branch-name
```

Use descriptive names like:

- kota

4. Make Changes and Commit

```
git add .  
git commit -m "Describe your changes clearly"
```

5. Push Your Branch to GitHub

```
git push origin your-branch-name
```

6. Merge Back to main

Case A: No Restrictions

If you prefer local merging:

```
git checkout main  
git pull origin main          # Important!  
git merge your-branch-name  
git push origin main
```

if you prefer pull request:

- Go to the GitHub repo page.
- Click **“Compare & pull request”**.

- Fill in the PR title and description.
- Submit the PR.
- If you have write access, you can click “Merge pull request” immediately without needing approval.

Case B: If restrictions are enabled (e.g., main branch protection):

- Go to the GitHub repo page.
- Click “**Compare & pull request**”.
- Fill in the PR title and description.
- Submit and wait for approval by **@kenta kiuchi**.
- After approval, click “**Merge pull request**”.

7. (Optional) Delete Merged Branch

```
git branch -d your-branch-name      # local
git push origin --delete your-branch-name  # remote
```

Summary

Task	Command
Update main	<code>git checkout main && git pull origin main</code>
Create new branch	<code>git checkout -b my-feature</code>
Merge into main	<code>git checkout main && git merge my-feature</code>
Push to GitHub	<code>git push origin main</code>