GitHub for Research Collaboration

An introduction to using GitHub for research project management
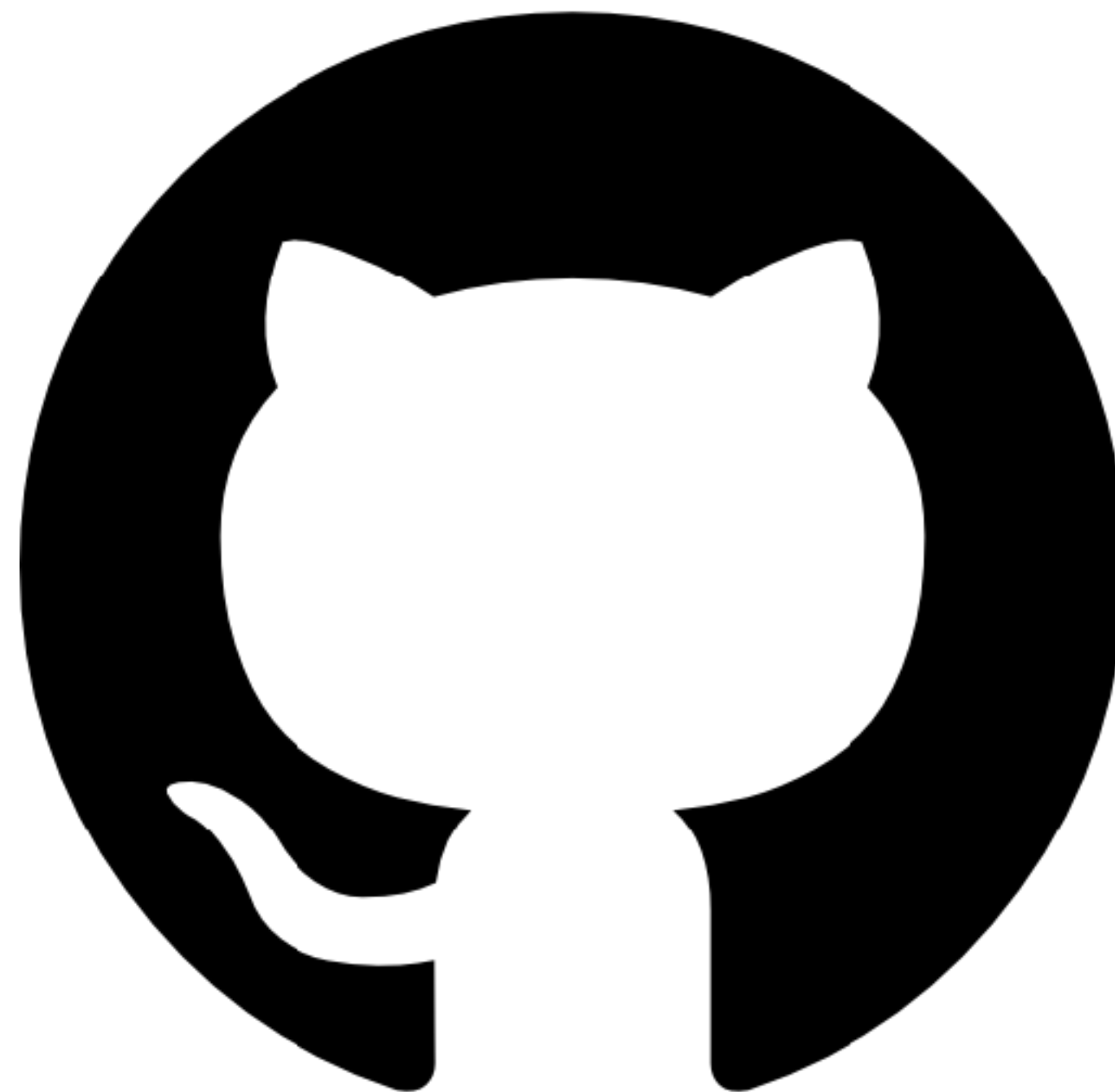
This GitHub training…

IS

For research project management

IS NOT

For collaborative software development

Why use GitHub for project management?

Many of the same needs in collaborative software development as there are in general research collaboration

| Project management needs	GitHub feature
Single location for all things relating to a project	GitHub repository
Set and assign project tasks	GitHub issues
Manage multiple projects	GitHub projects
Communicate asynchronously	GitHub issue replies
Stay on top of project timelines	GitHub Milestones
Ideally all of these on one platform	GitHub can do all of these things!

21st Century Weather on GitHub

https://github.com/21centuryweather

Let's try it out on GitHub!

https://github.com/21centuryweather
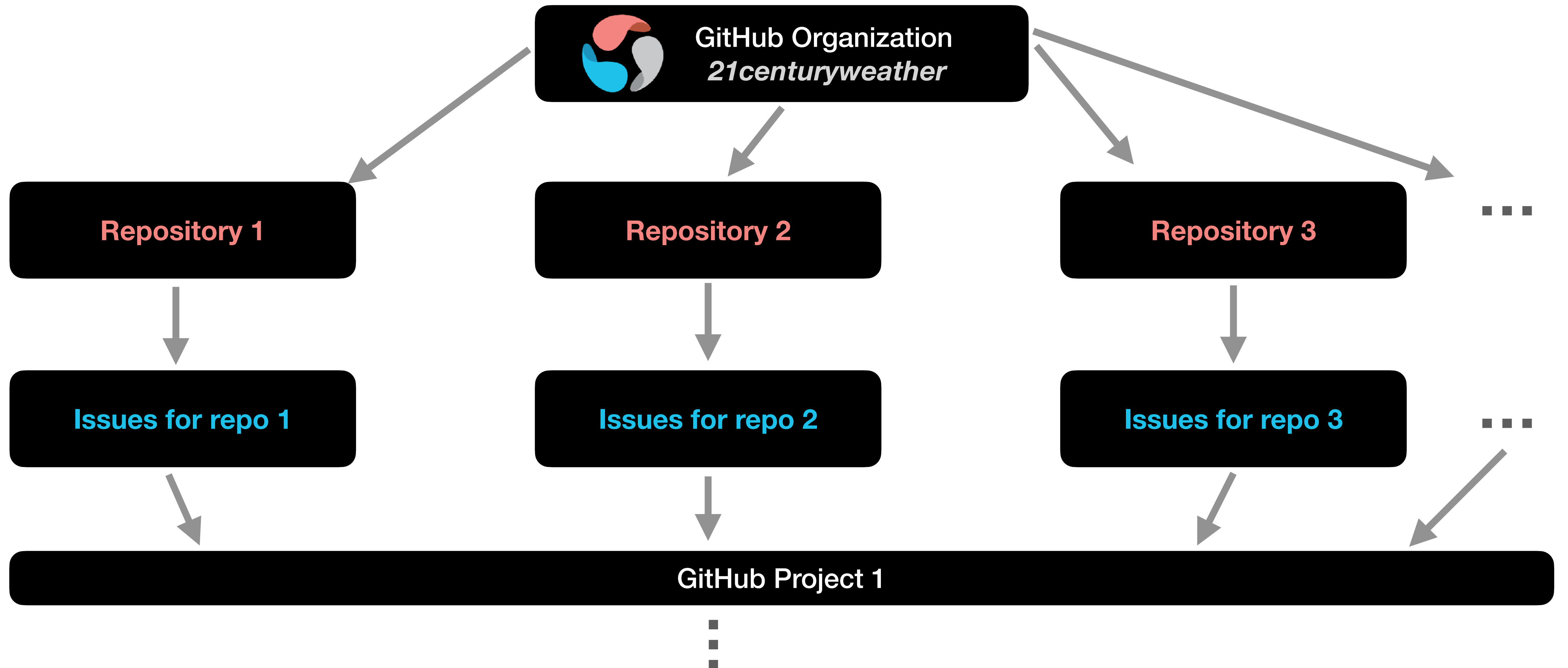
Further resources

- Scientific Collaboration and Project Management in GitHub (Medium article by Ryan Abernathey)
  - https://rabernat.medium.com/scientific-collaboration-and-project-management-in-github-d74f2255ae5f
- Attaching files in GitHub
  - https://docs.github.com/en/get-started/writing-on-github/working-with-advanced-formatting/attaching-files
- Markdown syntax in GitHub
  - https://docs.github.com/en/get-started/writing-on-github/getting-started-with-writing-and-formatting-on-github/basic-writing-and-formatting-syntax
- Setting repository roles in a GitHub organization
  - https://docs.github.com/en/organizations/managing-user-access-to-your-organizations-repositories/managing-repository-roles/repository-roles-for-an-organization
- Managing teams and people with access to your repository
  - https://docs.github.com/en/repositories/managing-your-repositorys-settings-and-features/managing-repository-settings/managing-teams-and-people-with-access-to-your-repository
- Adding outside collaborators to repositories in your organization
  - https://docs.github.com/en/organizations/managing-user-access-to-your-organizations-repositories/managing-outside-collaborators/adding-outside-collaborators-to-repositories-in-your-organization