## GitHub Repositories Structure

Based on the current best practise online documents for the git distributed revision control and source code management system.

**One conceptual group per repository.**

Dividing it up correctly beforehand is much better.

Repositories sometimes get used to store things that they should not, simply because they were there. Avoid doing so.

**Read access control is at the repo level**

If someone has access to a repository, they have access to the entire repo, all branches, all history, everything. If you need to compartmentalize read access, separate the compartments into different repositories.

**Separate repositories for files that might be needed by multiple projects**

[ Common Reusable Components]

This promotes sharing and code reuse, and is highly recommended.  
  
**Separate repositories for large binary files**

[ Large Binary ]

Git doesn't handle large binary files ideally yet and large repositories can be slow. If you must commit them, separating them out into their own repository can make things more efficient.

**Separate repositories for code snippets/samples**

[ Code Snippets and Samples ]

### References;

<http://scottchacon.com/2011/08/31/github-flow.html>   
<http://git-scm.com/book>   
<http://sethrobertson.github.io/GitBestPractices/>

**A suggested Github structure for Novartis OTC**

Novartis OTC

     [ Brand aaa ]

          [Common]

          [Region xxx]

               [Sensible folder names]

          [Region yyy]

                [Sensible folder names]

          ...

     [ Brand bbb ]

          [Common]

          [Region xxx]

               ...

          [Region yyy]

               ...

          ...

     [ Brand ... ]

     [ Large Binary {Brand aaa} ]   only required is the project may have large binary files

     [ Large Binary {Brand ddd} ]   only required is the project may have large binary files

     [ Common Reusable Components .NET ]

          [Sensible folder names]

     [ Common Reusable Components Java ]

          [Sensible folder names]

     [ Code Snippets and Samples .NET ]

          [Sensible folder names]

     [ Code Snippets and Samples Java ]

          [Sensible folder names]