# Research

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| **Question** | **Research** |
| WHERE DO I GET A High level design doc from | ChatGPT: ‘give me a high level design document template for a software project’ |
| How do I use git | Beginner-Friendly Video Tutorials "Git Tutorial for Beginners" by Programming with Mosh: This is a detailed 1-hour video that walks you through Git installation, making commits, working with branches, and more. It’s perfect if you want a solid foundation.  "Git and GitHub for Beginners – Crash Course" by freeCodeCamp: A longer but thorough course that teaches Git and GitHub step-by-step, ideal for complete beginners.  "Learn Git in 15 Minutes" by Colt Steele: A fast-paced overview of the most essential Git commands — perfect for getting started quickly. Short and Visual Explanations "Git Explained in 100 Seconds" by Fireship: A super-short video that explains the core idea behind Git — great for getting the big picture fast.  "Git Tutorial – Learn Git in 1 Hour" by Academind: This balances theory and practice. You’ll learn the “why” behind Git as well as how to use it. Practice and Interactive Learning After watching the videos, try one of these tools to practice what you've learned:  - Git-it: A beginner-friendly interactive tutorial. - GitHub Learning Lab: Guided exercises using real GitHub repositories. Key Concepts to Learn • What version control is and why it matters • Common Git commands: git init, git add, git commit, git push, git pull • How repositories, branches, and merges work • Managing changes and collaborating with others on GitHub or GitLab |
| How to integrate GIt into Cursor IDE | Claude 4: ‘How to integrate GIt into Cursor IDE’ To integrate Git into Cursor IDE, follow these steps. Cursor is built on VS Code and inherits most of its Git functionality.  **Built-in Git Integration**  **Steps:** 1. Install Git from [git-scm.com](https://git-scm.com) 2. Use Cursor’s built-in Git panel (Ctrl+Shift+G or Cmd+Shift+G) 3. Initialize or clone repos using terminal 4. Use GitLens, Git Graph for enhanced insights  **Setup Steps**  1. Install Git (if not already installed):  - Download from [git-scm.com](https://git-scm.com)  - Cursor will automatically detect Git once installed  2. Configure Git (first-time setup):  ```bash  git config --global user.name "Your Name"  git config --global user.email "your.email@example.com"  ```  3. Initialize or clone a repository:  - For new projects: Open terminal in Cursor (Ctrl+`) and run `git init`  - For existing repos: Use `git clone <url>` or open the folder directly  **Key Features Available:** - Visual diff viewer: See changes side-by-side - Staging area: Stage/unstage files with checkboxes - Commit interface: Write commit messages directly in the IDE - Branch management: Create, switch, and merge branches - Conflict resolution: Built-in merge conflict editor - History viewer: See commit history and file changes  **Enhanced Git Extensions:** - GitLens: Advanced Git insights and blame annotations - Git Graph: Visualizes your repo’s Git graph - Git History: Browse and compare Git history  **Terminal Integration:** You can also use Git commands directly in Cursor’s integrated terminal. Most operations can be done visually through the UI, while complex ones can still be done via terminal.  > The integration should work seamlessly once Git is installed. Try some hands-on projects to reinforce your Git workflow. |