GETTING STARTED WITH GIT

– A step-by-step guide –

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1. Sign Up for GitHub

1. **Visit GitHub:**
   Go to github.com.
2. **Create an Account:**
   - Click on **"Sign up"**.
   - Fill in your desired **username**, **email address**, and **password**.
   - Follow the on-screen instructions (like verifying your email) and choose the **free plan**.
3. **Confirm Your Account:**
   Check your email for a confirmation link and click it to verify your account.

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2. Download and Install Git

1. **Visit Git's Website:**
   Go to git-scm.com.
2. **Download Git:**
   - Click the **"Download"** button.
   - The website will automatically suggest the right version for your operating system (Windows or Mac).
3. **Install Git:**
   - Run the downloaded installer.
   - Accept the default options during installation (these settings work well for most users).
4. **Configure Git (Optional but Recommended):**
   Open your terminal (or Command Prompt on Windows) and run these commands (replace with your details):

   ```
   git config --global user.name "Your Name"
   git config --global user.email your-email@example.com
   ```

Explanation: These commands configure Git to attach your personal identity to every commit you make. Essentially, you're setting your name and email as the author information for all your commits. This helps in tracking changes, attributing work, and connecting your commits to your GitHub account. The `--global` flag ensures these settings apply to all repositories on your computer.

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3. Integrate Git with Visual Studio Code

1. **Install Visual Studio Code:**
   If you haven't already, download and install VS Code from code.visualstudio.com.
2. **Open VS Code and Verify Git Integration:**
   - Launch VS Code.
   - Open the integrated terminal by pressing **Ctrl+`** (backtick) or via **View > Terminal**.
   - Type `git --version` and press Enter to confirm Git is installed and recognized by VS Code.
3. **Using Git in VS Code:**
   - Click on the **Source Control** icon (usually looks like a branch) in the sidebar.
   - If you open a folder that is not yet a Git repository, you'll see an option to **"Initialize Repository"**—click it to set up a new Git repository.
   - You can now make changes to your files and use the Source Control panel to stage changes, commit them, and push to GitHub.
4. **Optional – Install GitLens Extension:**
   For an enhanced Git experience in VS Code, consider installing the GitLens extension, which provides advanced Git features and insights.

By following these steps, you'll have your GitHub account set up, Git installed on your computer, and integrated with Visual Studio Code for a seamless version control experience in your front-end web projects.