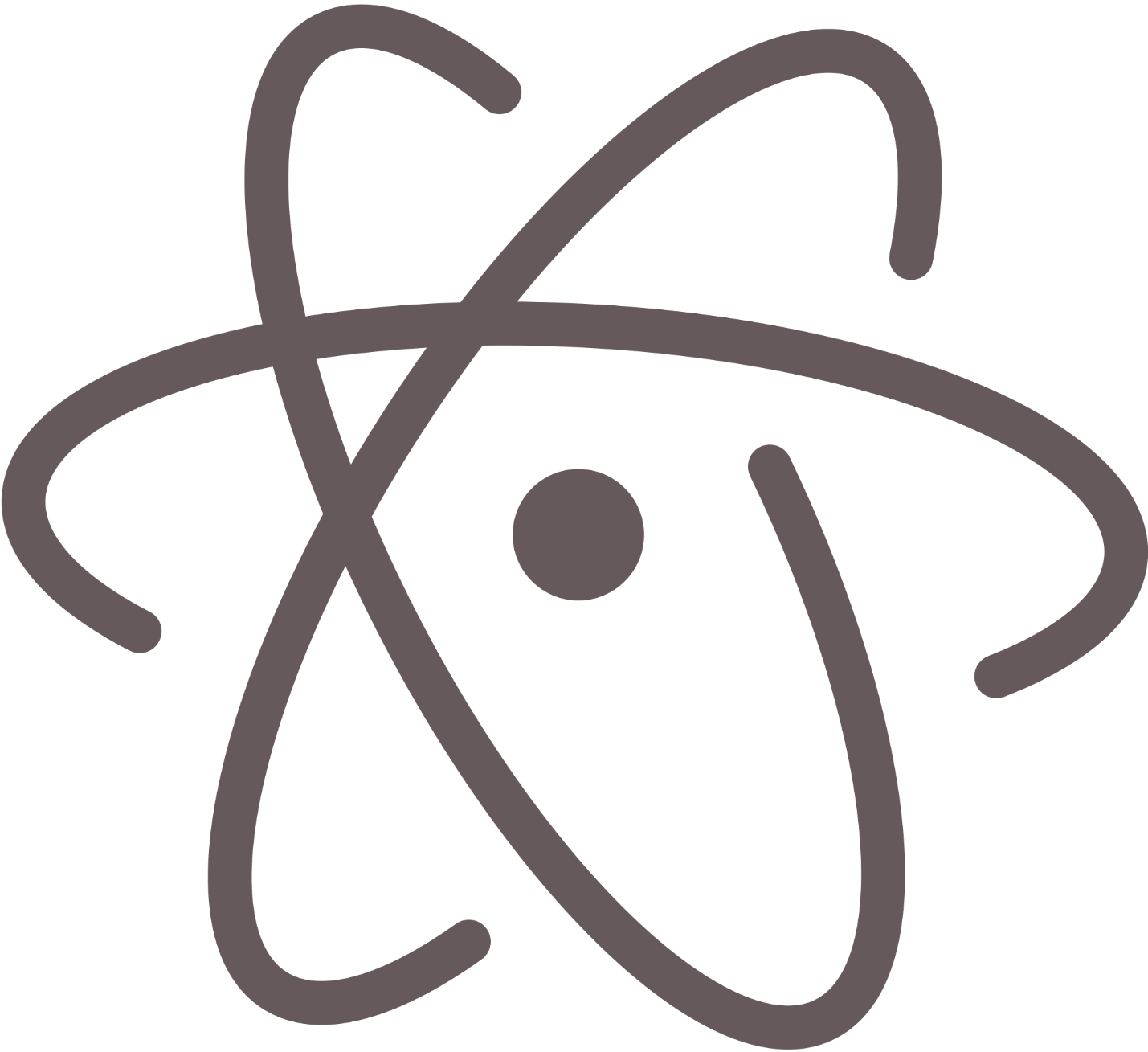
Atom and Teletype As An Alternative For Team Programming

Cameron Stark

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**Section 1: Overview**

With the creation and popularization of the internet, the development team is no longer in a single location or office, which has prompted the creation of tools to allow the capability to view and visually share information to a team of people in real time. The two types of team sharing that will be discussed in this report are desktop sharing and peer to peer communication. The main difference between these two forms of team sharing is the security of private information and how the sharing is done. Example of desktop sharing are TeamViewer and Microsoft Remote Desktop, where both of these are similar to Skype in a way where the participants can choose to display their desktop for others to see or even give access to someone to control the other persons desktop. The peer to peer examples are Teletype for Atom, Visual Studio Live Share and Google Docs which are all examples of a peer to peer sharing where a document or code file can be edited real time by multiple people without a persons desktop and data being visible and directly reachable.

**Section 2: Desktop Sharing**

The concept of Desktop Sharing began when desktops and servers became more complex and often decentralized from the company’s office, such as the Cloud, which is a service of constantly running servers. The leading software for sharing/controlling desktops is TeamViewer which works on all major platforms and mobile devices and was founded by a German company. The other major application that will be discussed is Microsoft remote desktop.

**Section 2.1: Teamviewer**

TeamViewer works by installing the application on the device you want to access and the device you are controlling from. This allows the user to control who access the device my controlling connection profiles by adding them to a list or controlling via an access code.

**Section 2.2: Microsoft Remote Desktop**

Microsoft Remote Desktop by installing it on the device you want to control then connect via the external ip address and access is granted by knowing the ip address or knowing the login on the other device.

**Section 2.3: Skype**

The last one to be discussed is Skype which does not give access to other users but does allow other users to watch someone else controlling their device similar to that of a webcam.

**Section 2.4: Privacy/Security Concerns**

All of these have privacy and security concerns, however TeamViewer and Remote Desktop give access to a computer. Whereas Skype is just visually looking at a computer. The privacy concerns revolve around seeing the entirety of a user’s desktop, files and programs. With the remote control applications of another persons desktop the user has access to everything on the other persons device and has CRUD capabilities which means Create, Read, Update and Delete to all on the machine. Another downside is that these options are all one at a time, which works for presentations but not for team development projects

**Section 3: Atom and Teletype**

Developed by Github, the Atom IDE text editor, is an advanced and light weight editor that allows for numerous languages to be efficiently typed and coded with itellisense which is the ability for the software to suggest/auto complete with code suggestions.

Teletype is an Atom package that allows for peer to peer typing and coding, which allows for teams to work on the same project or even file in real time with other members of their team and see the changes made to a file in real time.