ReVersion VCS

Version control as a service

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# INTRODUCTION

What ReVersion aims to achieve is to deliver an intuitively user-friendly, but also powerful Version Control System (VCS). File versioning is managed by file deltas, exclusively for text files, to keep things manageable. The deltas are the output from a Unix “diff” command. Similarly, retrieving past versions of files is achieved by repeatedly “patching” the latest version of the file with the back-stored diff content. Each documented diff content contains the instructions for how to transform a file from one version to the immediate predecessor. In this way, a chain of diff files can be built to manage file versions while still only storing one file in its entirety.

File merging is orchestrated similarly by performing a 3-way merge between the two merge candidates and a common ancestor. Merges are only performed between the latest versions of two branches belonging to the same repository.