

Git CLI or GitHub Desktop

Which interface is more efficient and faster?

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Abstract

From the 1970s, Command Line System (CLI) enables users to input commands for executing computers tasks. As technology progressed, graphical user interfaces (GUI) like Xerox Alto (Xerox - 1973) and the first Macintosh (Apple - 1984) became the mainstream choice. GUIs are the primary interface for most users because of the user-friendly experience, relegating CLI only to experienced users.

This research is an attempt to evaluate whether using Git with CLI is more efficient and faster compared to its counterpart, GitHub Desktop. In order to analyze the differences between the effectiveness of using one or the other, a survey was conducted among IT student. Along with a short experiment.

The results show that using the CLI instead of using the GUI for executing basic Git commands is faster and more efficient. After getting to know the CLI commands the average pace of executing them increased significantly, showing how using the CLI can be more effective overtime. Moreover, some people who had never used the CLI before, showed interest in using it for personal usage.

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1 Introduction

The purpose of this chapter is to provide the research question and the importance of it, along with context about the topic. Furthermore, this chapter will point out potential external factors that may influence the evaluation of the hypothesis.

1.1 Context and Background

1.2 Research questions and Hypothesis

The aim of the research is to prove that using the CLI for Git related tasks is more superior when comes down to efficiency and speed compared to the GitHub Desktop . Therefore our research question is : "Which interface is more efficient and faster between them?"

We hypothesis that using CLI instead of GitHub Desktop has much more benefits in terms of

2 Methodology

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3 Results

4 Discussion