



Introduction

Timenaut is a **time-tracking software** that monitors computer activity for you. **Automated tracking** shows where procrastination is occurring, this can help users **achieve more** by bringing out the flaws in their time management. The application is an ongoing project created by Karl Martin Teras and Rimante Valancauskaite.

Data Visualisation

To understand where procrastination occurs - Timenaut provides **two views for data visualisation**. Daily activities are displayed in columns that each represent 10 minutes and are **color coded** based on users activities at that timeframe. Both graphs are displayed in Figure 1. Usage data from longer period is displayed using line graphs. There are 3 buttons that display activity of previous week, month or over all time. The user also has an option to select a custom timeframe.

Purpose

Time tracking is **essential in time management** and therefore important for students. Big companies like Toggl have made time tracking popular, but they only offer manual approach which doesn't really pin point procrastination and flaws in time management. **Automatic time tracking** helps users notice activities that are usually ignored. Justification for creating a new software instead of using existing solutions is that most auto time tracking software are either expensive, show irrelevant data that doesn't really give good overview or are free in exchange to users data.

Further Development

The goal of this project is to create a **consumer friendly software** that can compete with existing solutions. In order to achieve that, we would have to re-design our user interface and implement auto categorisation.

We'd like to implement those features by the end of **summer 2020** and hopefully get it out to the public even sooner.

Technical Overview

Timenaut is built with **Electron**, which handles the updates and distribution. The core of the application is written in **Typescript**. UI is handled by **Vue.js**. And all data is stored locally using **SQLite**. The software supports **Windows, MacOS** and **Linux** operating systems. Activity tracking is done using operating systems own API, where Timenaut gets information about which process and window is in focus pane.

Activities

Current software version does not support auto categorisation among activities, therefore users have to label them themselves. As shown in Figure 2, Timenaut shows all processes that can be given an overall label or there is even an option for labeling each window. This view also gives a bit more in-depth **overview for data-oriented users**.

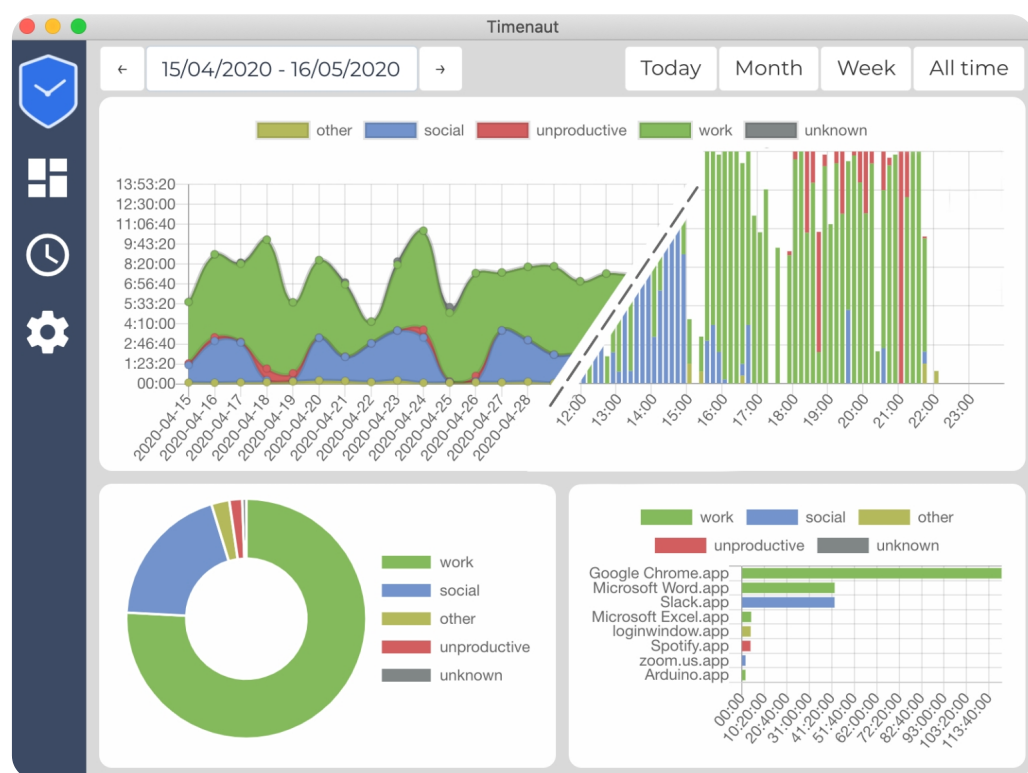


Figure 1: Timeline view

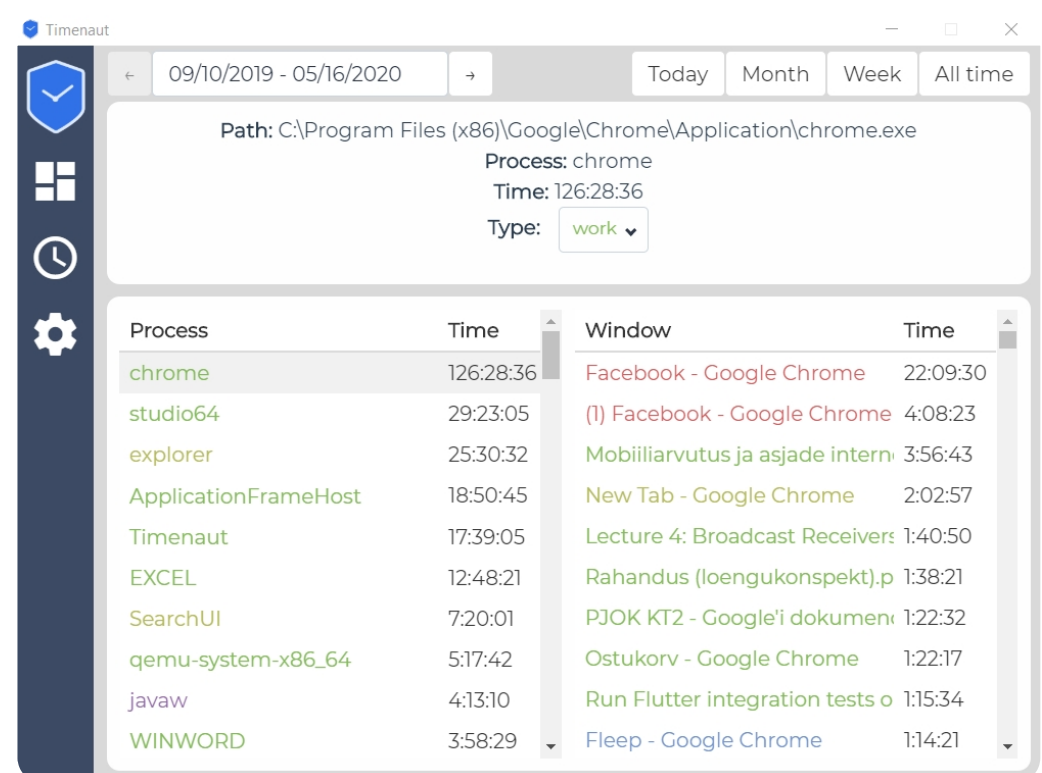


Figure 2: Process view