

User Guide

Team Code Blue

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1 Introduction

Welcome to this document, which will contain information for the installation, use, and becoming familiar with the software Project Code Blue we have released.

2 Pre-requisites

To run this software, you must run it on a device with Windows 10 version 21H2 (October 11th release) or greater, the device must have a dedicated Graphics Processing Unit (GPU) of the Nvidia Family, with a designation greater then the 10 series (At time of writing, 10xx, 16xx 20xx 30xx 40xx cards suffice.) additionally time for processing of the impressed models and utilization of GPU will depend on each model of GPU you install on your device, as will the proper drivers downloaded from Nvidia be required. Google chrome, and the ability to install an extension is required to run this service.

3 Installation

Download the package from the website. After obtaining please unzip the files, then navigate to the newly created folder. Please run the included .exe to deploy the server component of the service. After you have run and reach this screen the desktop application should begin. You should be greeted with a view similar to the one depicted in figure 2. However, the 'state' of the pause/play button (Item A) should be in the pause state. Now close the desktop application. Before you begin generating recommendations please run the included html link in the folder, directing you to our extension deployed on the google store here: [PUBLISHED LINK HERE]. Due to privacy policy from google we were unable to publish our application to google store, therefore an alternative way to install chrome extension in to your device is to go download the package from the website and unzip the file. Then go to chrome extension manage page and click on unload package and make sure it directs to the folder and now you have chrome extension installed in your device.

4 Basic Use

In the most basic use, the service will automatically detect and download basic text information from web-pages you browse, 5 minutes after the local application receives your first web-page, it will begin impressing your web-pages into the local machine learning model. After adequate time to run the model a cached recommendation service will complete, with another set of cached recommendations taking place either on demand from the web extension by clicking the recommend button in figure 1 or after a short period of time when new data arrives at the local application. Shortly after a request for recommendations is done, and the model has processed your recommendations, you will receive in the browsers window your requested recommendation, ranked from most favorable to least. You may also turn off data collection by enabling/disabling the switch in figure 1.



Figure 1: Current chrome extension user interface recommendation output

In the case you launch the desktop application without the chrome extension active, or the chrome extension has not seen new web-pages yet, the desktop application will not generate any new impressions and will sit idly, waiting for recommendation requests. If you wish to then update the desktop application with new websites you have visited since it has been opened, simply restart the desktop application.

5 Advanced Features

5.1 Desktop Application

The desktop application also comes with metrics and features. To view the current process of impressions and content recommendation, please refer to Item C in figure 2. To view real-time metrics of GPU usage by the desktop application's process refer to Item D in figure 2. In the case you would like to start/stop the desktop application, please refer to the button highlighted by Item A in figure 2. Furthermore, features related to limiting GPU usage can be seen by opening the settings menu located on Item B in figure 2.

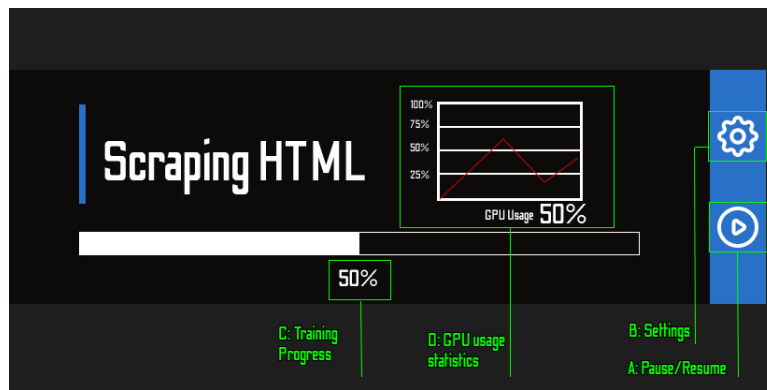


Figure 2: Desktop application user interface elements

5.2 Chrome Extension

The Chrome Extension brings zero difficulties when it comes to using it. It brings a switch where you can on/off the collection of the current website you are using to guarantee the privacy for users. It also comes with two buttons: "recommend" and "show latest". When recommend button is triggered it will start computing your data behind the scene and give the result below the recommend button. The show latest button brings up the most recent recommendation list while the server is running. To get a better understanding please follow 1.

6 Uninstalling and Removal

6.1 Desktop Application

To uninstall the desktop application, simply remove the entire directory of the TCB application while it is not running.

6.2 Extension

To uninstall the chrome extension, go to manage extension and click on remove.

7 Userguide Update Link

If this version you received with the application appears to be out of date you can obtain the most recent version of the user guide please consult the project website here:

<https://teamcodeblue.github.io/docs/UG.pdf>

or simply press the Help and Tips button located on the extension.

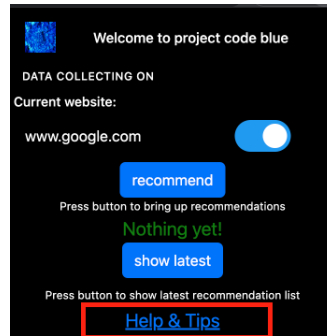


Figure 3: Location of the Help and Tips button on the Extension

8 About Us & Contact Us

The source code for this project can be reached at <https://github.com/teamcodeblue/projectblue> For further comments about the software design

8.1 User Guide Philosophy

We decided to go with a pdf user guide separated out from the actual application itself since it allows for an easily updatable format nondependent on the application. We decided not to go with an in-application tutorial/guide for issues such as the application failing to load or being out of date and being impossible to access. Additionally, since the application is either on desktop or contained with the extension window, searing up terms or errors would be easier with a control - f search versus manually scanning through the options.

The pdf user guide allows a compartmentalization of the information away from the application itself, however attaching a link to the current version of the application itself hosted on our website would mean that it is still reachable with the extension in case you misplace/forget where you extracted the pdf too, and allows the user to easily access it still.