



Extending PINATA, a Chrome-based Adaptive User Interface Tool

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Improving Computer Access with PINATA

PINATA (Pointing Interaction Notification and Adaptations) is a Chrome-based plugin designed to assist users who have difficulty using a computer mouse when accessing the Internet by adapting the browser interface.



Figure I: The user triggers a notification when a specified number of slips is detected. The user can then select to activate the adaptation or dismiss the notification.

Development of a New Adaptation

A *slip* is a type of pointing problem that a user can experience that occurs when a user drags the cursor when the intention is to click. A new adaptation that utilizes the keyboard was developed to aid with slips.



Figure II: After pressing the “Adapt my UI” button, the web page adds a green border over any element with a hyperlink. This indicates that the user may press the forward-slash (hotkey) on the keyboard to proceed to the link.

PINATA Notification Manager New Features

Timeout – pauses the recording of data after a long period of user inactivity and resumes once the user is active again

Toggle-recording – a button added to the PINATA user-interface that turns recording on/off at the user’s will to provide data privacy to the user

Reset-per-metric – a button for each metric in the Notification Manager (Figure III) that resets that metric to default values

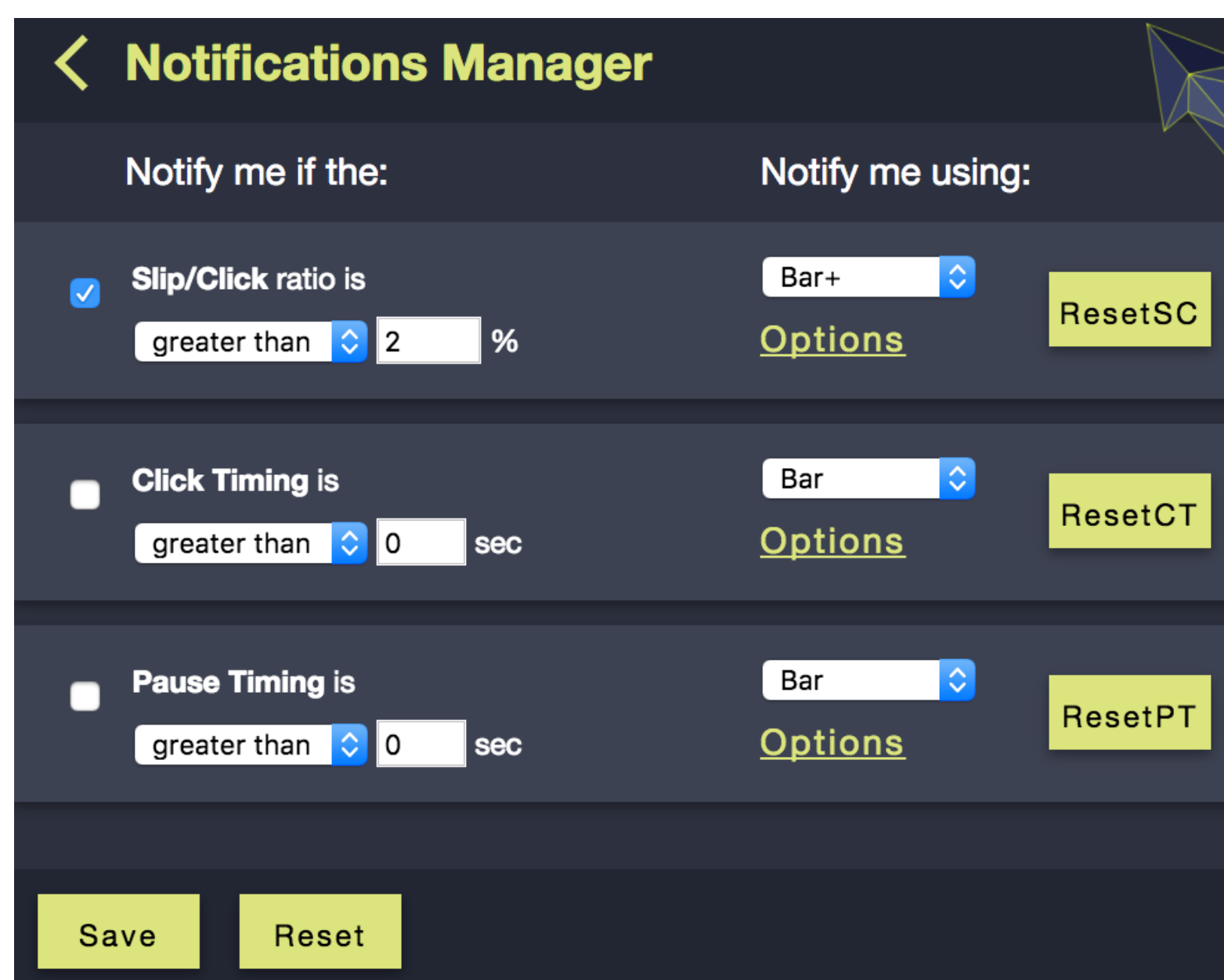


Figure III: PINATA Notification Manager Allows end-users to easily customize notification and adaptation settings.

Future Work

We plan to continue to develop the PINATA notification manager to make it customizable and evaluate this software tool with potential users.

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