Testing

# Video demonstrating testing

I have made a video demonstrating the application’s capabilities:

# UI Testing

The simplest component of the project was the UI component of the IDE. Its primary functionalities that require testing include all file access functionality and the custom control component, in the form of the EditorTextBox class; the other functionalities, for example the correct buttons being appropriately enabled, don’t have enough failure cases to be worth considering. Of the potential failure points in the UI, for the file access functionality every possibility can be exhausted by regular use; I demonstrate the majority of these possibilities in the video, but every aspect of file use is addressed by the app. This includes:

* Creating a new file or opening one, including appropriately titling the editor instance “Untitled” or the file name
* Saving files, which also includes specifying a save location for new files (still titled “Untitled”)
  + Specifying the save location failing, so not saving and not updating the saved status
* Saving files as, which involves specifying a save location regardless of if the file is new
* Saving all files, which just repeats the saving files process until trying to save a new file fails when specifying a location fails