

To Do Functionality

(Functionality for features not yet completed, that will be passed on to Devs)

Inserting Hyperlink into text:

When I want to add a hyperlink to my slide, I must first be inside a text box. To add a hyperlink, I type **some hotkey** then type in the URL I wish to turn into a hyperlink.

- Entering any whitespace character ends the hyperlink and inserts the whitespace after it
- Deleting one part of a hyperlink deletes the entire link
- Note: To add hyperlink, you must be in textbox, and you also must be in typing mode (meaning the cursor is active and when you type a key it appears in the text box)

Example use case: Britney is in the middle of writing a paragraph on her slide, explaining why she is the king of pop, not Michael. She starts typing the sentence “And if you don’t want to take my word for it, check out my website at “, then she presses **some hotkey** and then types “www.facebook.com”, she then press the spacebar and then finishes her sentences “trust me, it’s definitely not a waste of time.”

Inserting Images/GIFs (same procedure)

I should be able to insert an image/GIF from my computer by pressing a button or **some hotkey**. After pressing this hotkey, a window should pop up, allowing me to select the .gif, .png, or .jpeg file I want to insert. Alternatively, I can click “cancel” to not insert anything.

When doing this, the image/GIF should replace the image area on the current slide template. If the slide template does not have an image area, a window should pop up asking if I want to convert the slide to that template.

If I click “Yes”, the slide should convert and insert my image.

If I click “No”, the slide should not change and the image should not be inserted.

Basic Functionality

Launching

When I launch the app, it should open up a new slide deck of one slide. This slide should have a larger “**Title Text**” at the top and some smaller “body text” below.

Adding Slides

I should be able to click a button or press **some hotkey** to add a new slide. Doing either will pop up a window asking me what type of slide I would like to add, its title, and where it should be added (At the beginning of the deck, at the end, or some index in the middle).

Indexing starts at 1.

If the index is the same as a slide, the new slide should be put after the slide. If the index is smaller than the number of slides (<1), then the slide should be put at the start of the deck. If the index is larger than the number of slides, it should be placed at the end of the slide deck.

Removing Slides

I should be able to remove the current slide I am on with the click of a button or by pressing **some hotkey**. After deleting the slide, the app should automatically load the slide below it or, if there is none, the slide above it.

I should not be able to delete a slide if it is the only one in the deck.

Reordering Slides

I should be able to change the position of the current slide in the slide deck with the click of a button or by pressing **some hotkey**. Doing either will pop up a window asking what index I want the slide at. The same rules for indexes that apply for **Adding Slides** applies here.

Editing Text

I should be able to edit the text in a textbox by clicking on it and typing. Text should also automatically wrap according to the bounds of the box. All text in a box should have the same font and size.

Slide Templates

The following slide templates exist:

1. **Title:** A title field and a text field, positioned like in most programs for the first slide.
2. **Text:** A slide with a title and text field.
3. **Image:** A slide with a title and image field.
4. **Image+Text:** A slide with a title, text, and image field. The image is located to the right of the text field.
5. **C Code:** A slide with a title and C code field.
6. **FORTRAN Code:** A slide with a title and FORTRAN 77 code field.

Slide elements have the following defaults:

- **Title Field:** The title of the slide
- **Text Field:** "Click me to edit text!"
- **Image:** A ~~pekingese~~ A blue heron eating a fish
- **C Code:** ```printf("Hello, world!");```
- **Fortran Code:** ```write (*,*) 'Hello, world!'```

Intermediate Functionality

Saving

When I press **some hotkey** or a button, I should be prompted to save my slide deck somewhere. A window will pop up, allowing me to specify a name and save location. I should be able to click “Save” to save and “Cancel” to abort the save.

Loading

When I press **some hotkey** or a button, I should be prompted to open a slide deck. A window will pop up, allowing me to select a file on my computer with the extension .slidedeck. I should be able to click “Load” to load the selected file or “Cancel” to abort the save. If there is no valid file selected when “Load” is clicked. The warning “Invalid file selected” should appear with the option to click “Okay” to be sent back to the file select window.

Inserting Images

I should be able to insert an image from my computer by pressing a button or **some hotkey**. When doing this, the image should replace the image area on the current slide template. If the slide template does not have an image area, a window should pop up asking if I want to convert the slide to that template.

If I click “Yes”, the slide should convert and insert my image.

If I click “No”, the slide should not change and the image should not be inserted.

Converting Templates

I should be able to convert one type of template to another. If the conversion is lossy (the template I am converting to does not have an element the original has; ex. Image+Text->Text), a window should pop up warning me “The slide you are converting to does not have all the elements of the original slide. This can result in loss of data. Are you sure you want to convert?”.

If I click “Yes”, the slide should convert, copying the values from the old elements to the new elements.

If I click “No”, the slide should not change.

Advanced Functionality

Formatting Text

When I am editing the contents of a textbox, I should be able to click a button or press **some hotkey** to change the font and size. When doing this, a window that has my font options and an area to put in a font size (as an integer) in. The font should only change after I click “Apply” in the window.

LaTeX

I should be able to type a LaTeX equation into any text field and have it automatically display.

Syntax Highlighting

There should be two types of code boxes: FORTRAN and C. When typing in these boxes, my code should be automatically highlighted.

Automatic Image Resizing

The image will automatically resize while maintaining its aspect ratio to fit in the image area.