

For this final project Scott Smith and I worked together to get the code right. We used lab10 as guidance to complete this project. Scott reached out to you, professor Quinn via email asking about our proposal. Our goal for the final project was to create a conversion system for dynamic viscosity. We created an edit box for our users to be able to input any value for dynamic viscosity in ($\text{kg/m}^2\text{s}$) from 1 to 99. Once a value is imputed, select one of two radio buttons to select either ($\text{lbm/ft}^2\text{s}$) or ($\text{lbm/ft}^2\text{hr}$). Radio buttons will show what units you want to convert to. This is done just to make sure the correct units are selected. When this is selected, go ahead and select one of the push buttons to convert the imputed value to the desired units. The value will show below the push button.

We chose this project because we both deal with dynamic viscosity a decent amount being engineers. We thought this could be useful in both of our everyday lives as dynamic viscosity occurs in multiple classes for both of us.

Looking forward to the future and being honest I probably won't use GUIs in the future, or at least I'm not planning on it. This is my last coding class of my school career and being a field civil engineer I currently don't see a use for it in my career. Although a good skill to learn, know and very cool to be able to create things, it just isn't for me.

We had some difficulties creating the edit box in our code. We struggled getting it so we could actually type whatever we wanted and matlab would accept the corresponding value, not just a random value. For a while we would type in a value and instead a random value would be accepted. We reached out and received help from Caitlyn, one of the LA's for this course and she helped us tremendously last week. We ran out of time before her hours were up and Scott and I continued to

work on it a little bit more last week. Scott also reached out to Thien who spent some time with Scott helping him with the push button. Like I said before we choose to use lab10 as a template for this and edited it to our desire. To meet the requirements for this project we have an edit box along with 2 radio buttons for our GUIs and 2 call back button functions.

One problem we currently have is when we selected our radio buttons, an error occurs in the command window despite the code running perfectly. This code only shows the user what units they are currently in so this should not be happening.