**Creates GUI Component**

\_\_init\_\_

* Initialize component and store app\_state
* Declares all the GUI component variables
* Calls **create\_components**
* Calls **setup\_layout**

create\_widgets

* Initializes all of the GUI component variables
* Adds bindings to required GUI components
* Adds the styling arguments to GUI components

setup\_layout

* Creates a row and column configuration for the GUI
* Adds all of the GUI components to itself

**Data Handling**

load\_data

* Calls **file\_ops.load\_csv\_file**
* Returns if no data was loaded
* Sets df status variables
* Calls **main.create\_blank\_fig**
* Calls **main.update\_data\_info**
* Shows a success message indicating data was loaded

clean\_data

* Shows an error message if the df has not been loaded
* Gets the df
* Converts int64 columns to float columns for PCA compatibility
* Stips whitespace and converts df column names to lower case
* Gets the user selected BBCH from app\_state
* Drops the user selected columns
* Drops non numeric columns and columns with no data
* Gets the user selected choice for dealing with missing data from app\_state
* Applies the user filter/interpolation to the df
* Updates the df and df variables in app\_state
* Calls **main.create\_blank\_fig**
* Calls **main.update\_data\_info**
* Shows a success message indicating the data has been cleaned