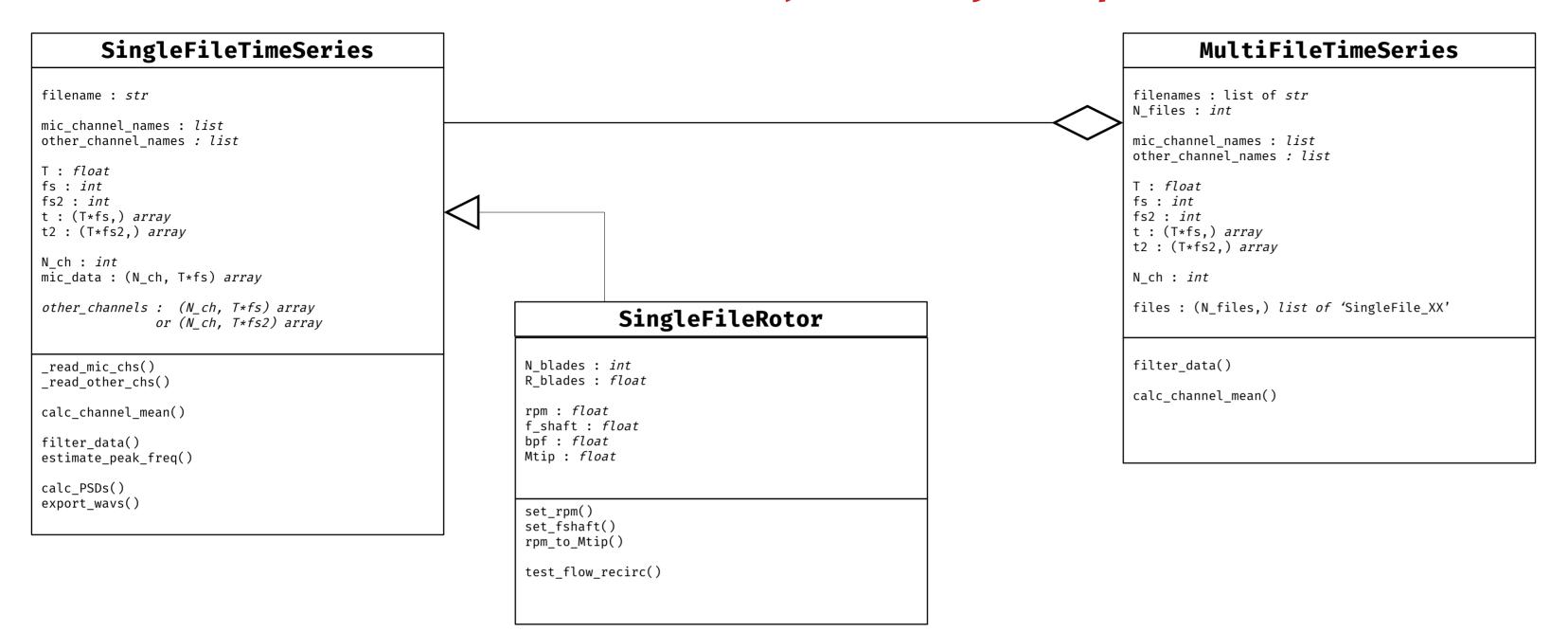
salford_mic_arc Class Diagram

Red: functionality not implemented



MultiFilePSD SingleFilePSD filenames : *list* N_files : *int* filename : str Ndft : int N ch : int Noverlap : int Noverlap : *int* window : str window : str psd : (N_ch, Ndft//2+1) array psd: (N_files,) list of 'SingleFilePSD' df : float N_ch : int fs : *int* df : float Ndft : *int* fs : int freq : (Ndft//2+1,) array freq : (Ndft//2+1,) array psd_broadband : (N_ch, Ndft//2+1) array broadband_SPL : (N_files, N_ch) array overall_SPL : (N_files, N_ch) array peak_indices : (N_ch, N_peaks) array peak_lims : (N_ch, N_peaks, 2) array peak_indices : (N_files, N_ch, N_peaks) array overall_SPL : (N_ch,) array peak_lims : (N_files, N_ch, N_peaks, 2) array broadband_SPL : (N_ch,) array tonal_SPL : (N_files, N_ch,) array peaks_SPL : (N_ch, N_peaks) array tonal_SPL : (N_ch,) array calc_PSDs() calc_broadband_PSD() calc_overall_SPL() calc_broadband_SPL() calc_overall_SPL() calc_broadband_SPL() find_peaks() find_peaks() calc_peaks_SPL() _find_peak_lims() calc_tonal_SPL() calc_tonal_SPL() SPL_to_polar() _calc_peaks_SPL()

References on UML / Class Diagrams:

https://www.visual-paradigm.com/g
uide/uml-unified-modelinglanguage/uml-class-diagramtutorial/

https://www.tutorialspoint.com/
uml/uml_class_diagram.htm

TO DO:

- class for rotating machineryN_blades, f_shaft, BPF
 - recirculation_test

class_name

attribute1 : attr1_type
attribute2 : attr2_type

method1()
method2()

root namespace

P_REF : float
DEFAULT_NDFT : int
DEFAULT_NOVERLAP : int
DEFAULT_WINDOW : str

_calc_spectral_centroid()
calc_ac_power()

salford_mic_arc Class Diagram	
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