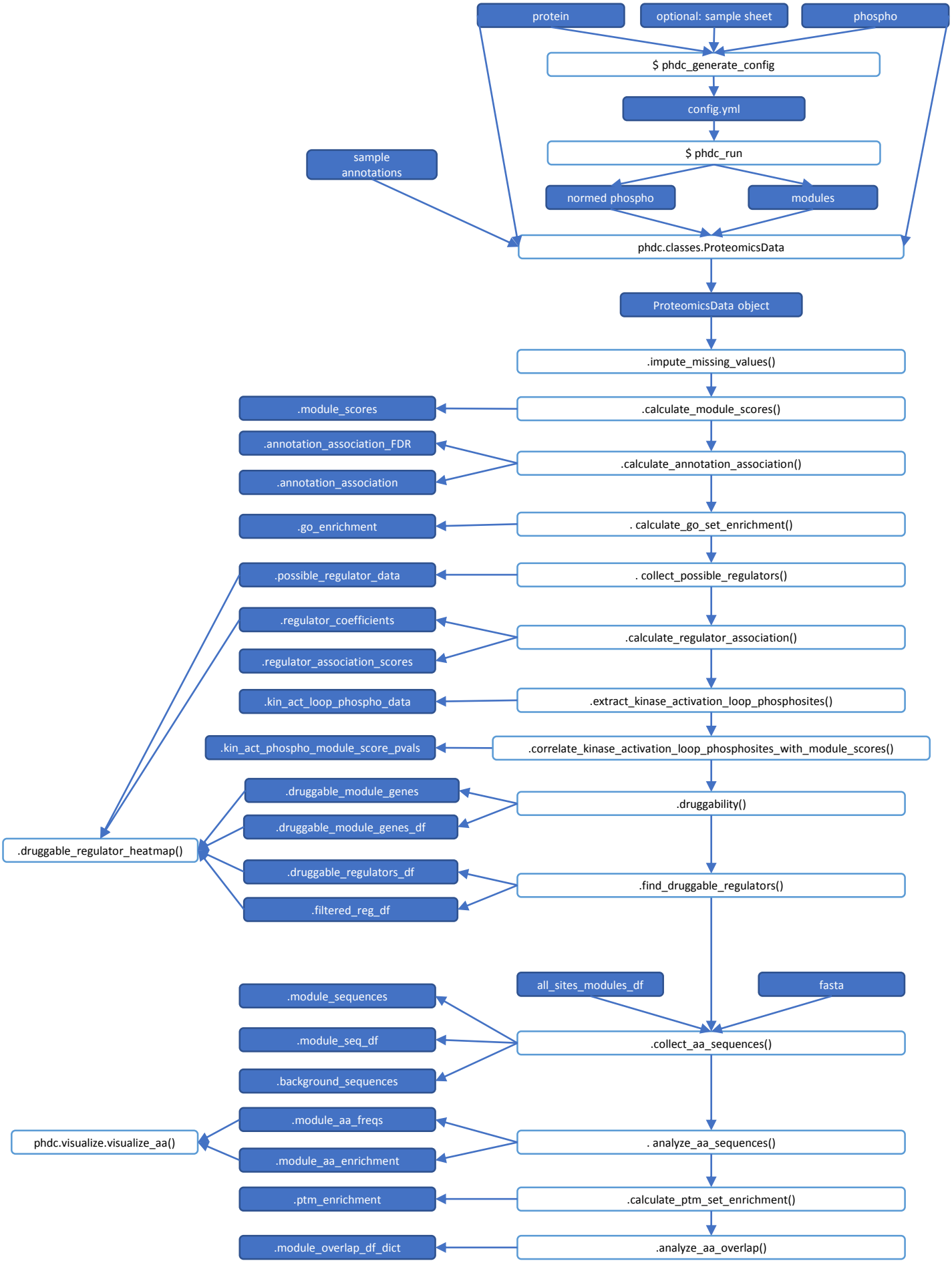
protein
optional: sample sheet
phospho
$ phdc_generate_config
config.yml
$ phdc_run
sample annotations
normed phospho
modules
phdc.classes.ProteomicsData
ProteomicsData object
.impute_missing_values()
.module_scores
.calculate_module_scores()
.annotation_association_FDR
.calculate_annotation_association()
.annotation_association
.go_enrichment
. calculate_go_set_enrichment()
.possible_regulator_data
. collect_possible_regulators()
.regulator_coefficients
.calculate_regulator_association()
.regulator_association_scores
.kin_act_loop_phospho_data
.extract_kinase_activation_loop_phosphosites()
.kin_act_phospho_module_score_pvals
.correlate_kinase_activation_loop_phosphosites_with_module_scores()
.druggable_module_genes
.druggability()
.druggable_module_genes_df
.druggable_regulator_heatmap()
.druggable_regulators_df
.find_druggable_regulators()
.filtered_reg_df
all_sites_modules_df
fasta
.module_sequences
.module_seq_df
.collect_aa_sequences()
.background_sequences
.module_aa_freqs
phdc.visualize.visualize_aa()
. analyze_aa_sequences()
.module_aa_enrichment
.ptm_enrichment
.calculate_ptm_set_enrichment()
.module_overlap_df_dict
.analyze_aa_overlap()