Method cheat sheet for class VortexSystem

What it does	Function	Jump to
Calculates the coordinates of the bound vortices of one blade and saves them	_blade_bound_elementwise	https://github.com/JonasMPN/LiftingLine/
to coordinates_blade_bound_elementwise. It does that by purely rotating the		blob/master/src/vortex system.py#L348
given blade structure to the current "blade_rotation".		
Calculates the coordinates of the trailing vortices of one blade and saves them	_blade_trailing_elementwise	https://github.com/JonasMPN/LiftingLine/
to coordinates_blade_trailing_elementwise. It does that by calculating the		blob/master/src/vortex_system.py#L361
first trailing vortex which is fixed to the blade. This vortex is parallel to the		
chord and goes from 1/4 chord to 5/4 chord. After that its helix geometry.		
Combines elementwise coordinates into one numpy array. If the coordinates	_combine_elementwise	https://github.com/JonasMPN/LiftingLine/
do not exist run the input function "if_not_do" (which should then calculate		blob/master/src/vortex_system.py#L434
these coordinates). After that, continue with the combining.		
Rotates combined coordinates. If the coordinates do not exist run the input	_rotate_combined	https://github.com/JonasMPN/LiftingLine/
function "if_not_do" (which should then calculate these coordinates). After		blob/master/src/vortex_system.py#L455
that, continue with the rotating.		
Calculate the induced velocities at "control_point" of a vortex with	_vortex_induction_factor	https://github.com/JonasMPN/LiftingLine/
circulation=1 that spans from "vortex_star"t to "vortex_end".		blob/master/src/vortex_system.py#L485
Build up a matrix that relates the induced velocities at a control point with all	bound_induction_matrices	https://github.com/JonasMPN/LiftingLine/
existing bound vortices. The nested loops are (1. outermost, 3. innermost):		blob/master/src/vortex_system.py#L185
 Bound vortex systems of all blades 		
2. Control points		
3. Bound vortices of the current bound vortex system		
Build up a matrix that relates the induced velocities at a control point with all	trailing_induction_matrices	https://github.com/JonasMPN/LiftingLine/
existing trailing vortices. The nested loops are (1. outermost, 4. innermost):		blob/master/src/vortex_system.py#L217
 Trailing vortex system of all blades 		
2. Control points		
3. Blade elements		
4. Trailing vortices of the current blade element of the current trailing		
vortex system		
All other functions are either for error reporting, setting values of the class,		
plotting the vortex system, or changing the data format of method inputs.		