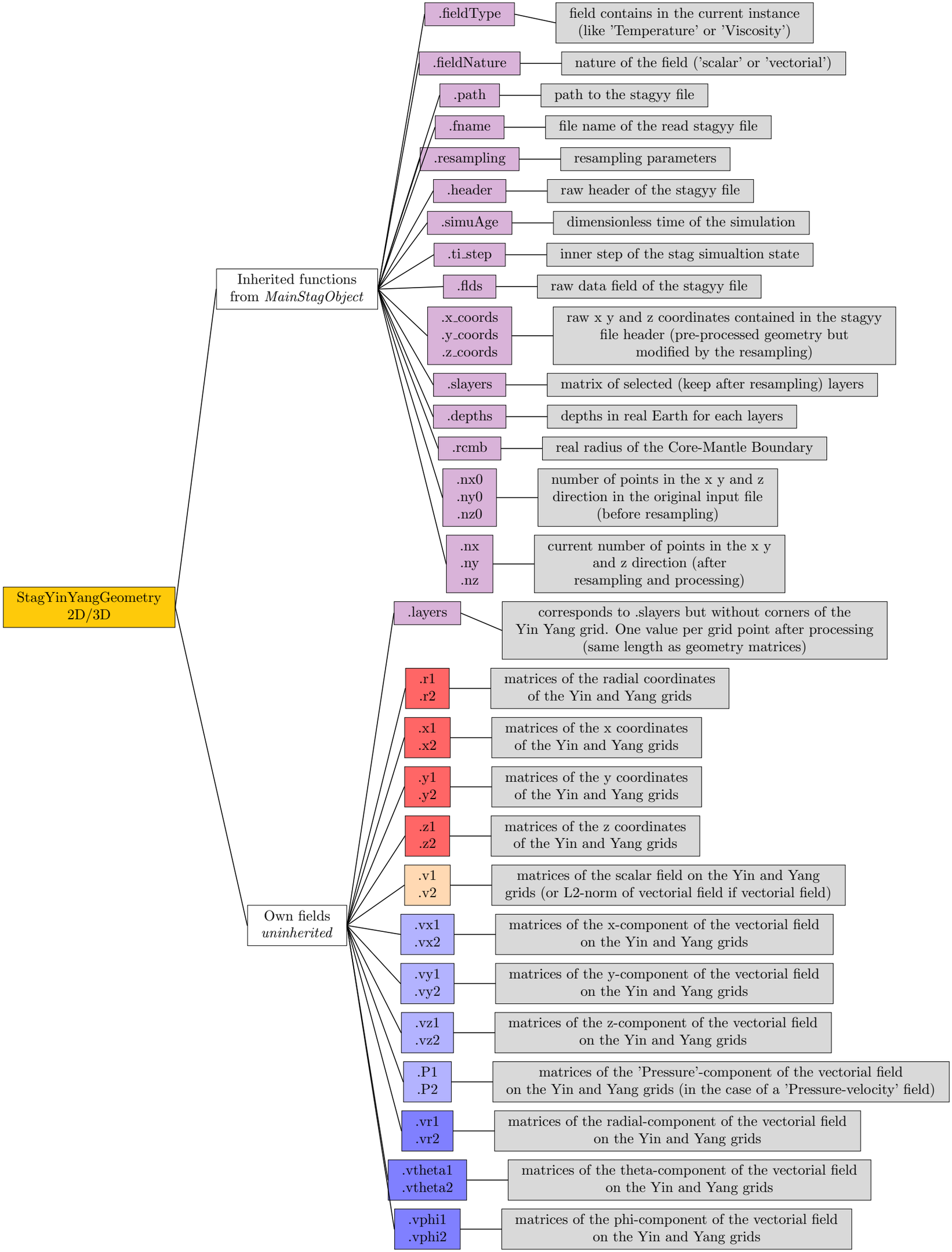
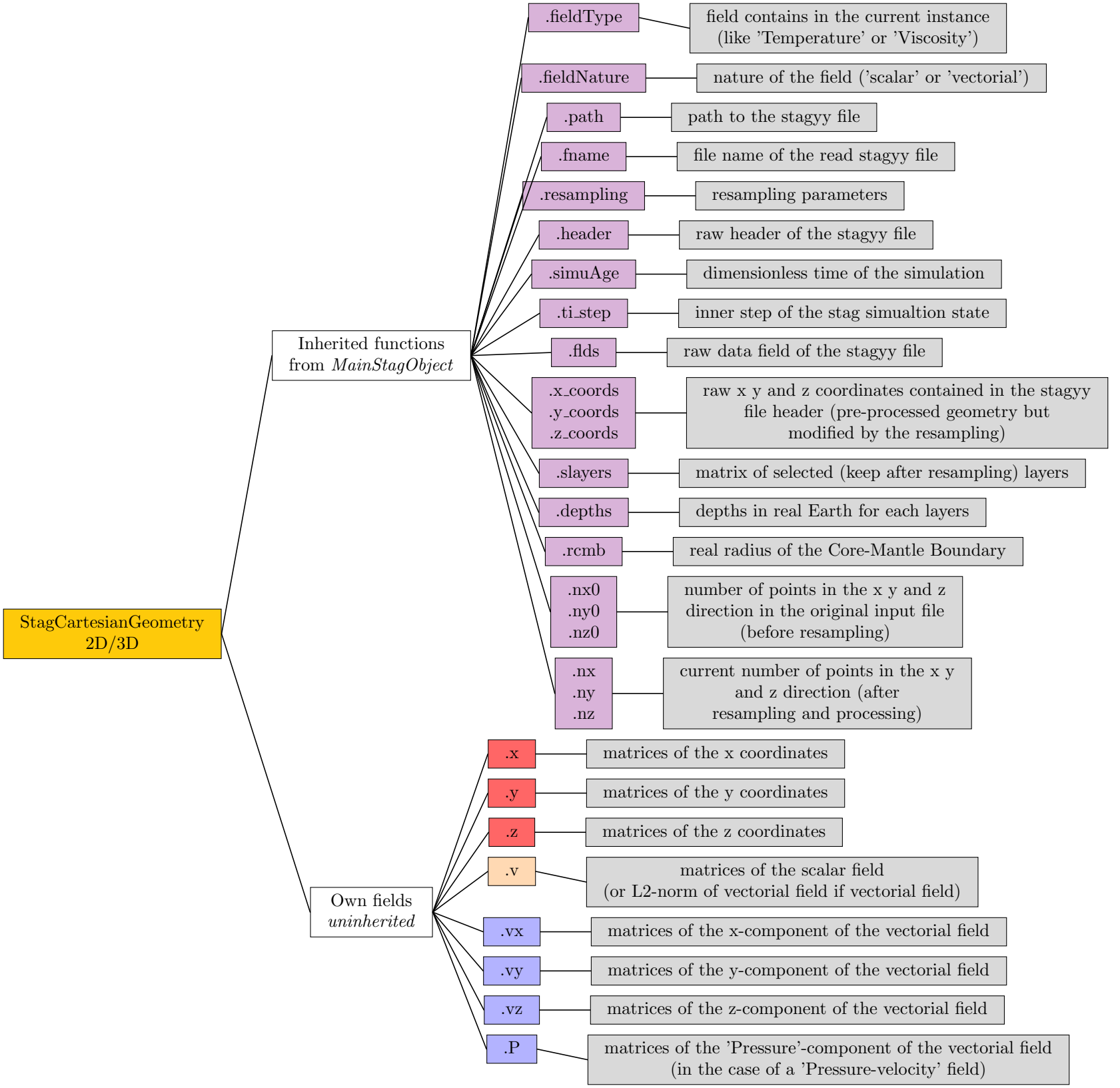
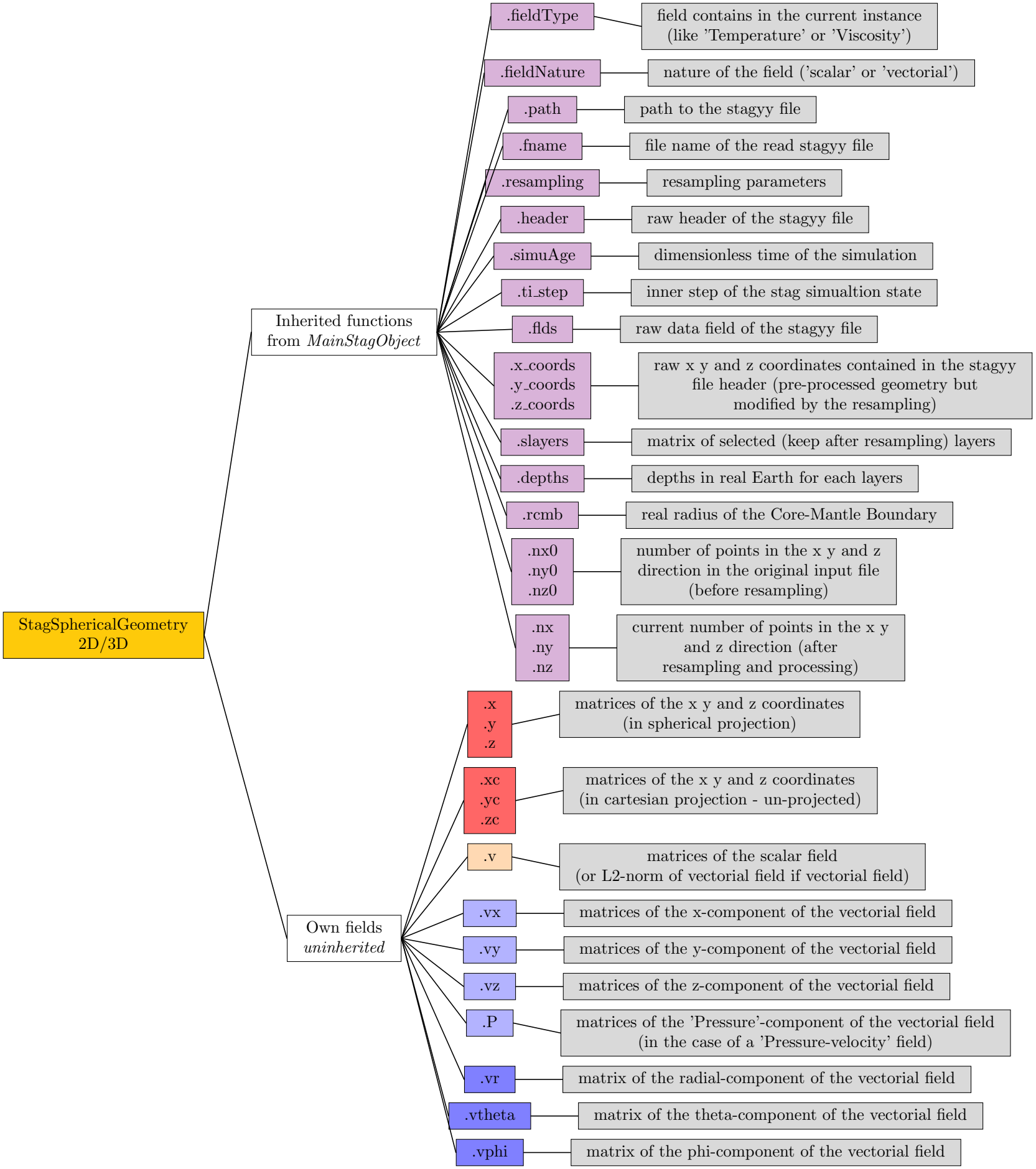

StagYinYangGeometry
2D/3D
Inherited functions
from *MainStagObject*
.fieldType
field contains in the current instance
(like 'Temperature' or 'Viscosity')
.fieldNature
nature of the field ('scalar' or 'vectorial')
.path
path to the stagyy file
.fname
file name of the read stagyy file
.resampling
resampling parameters
.header
raw header of the stagyy file
.simuAge
dimensionless time of the simulation
.ti_step
inner step of the stag simualtion state
.flds
raw data field of the stagyy file
.x_coords
.y_coords
.z_coords
raw x y and z coordinates contained in the stagyy
file header (pre-processed geometry but
modified by the resampling)
.slayers
matrix of selected (keep after resampling) layers
.depths
depths in real Earth for each layers
.rcmb
real radius of the Core-Mantle Boundary
.nx0
.ny0
.nz0
number of points in the x y and z
direction in the original input file
(before resampling)
.nx
.ny
.nz
current number of points in the x y
and z direction (after
resampling and processing)
Own fields
uninherited
.layers
corresponds to .slayers but without corners of the
Yin Yang grid. One value per grid point after processing
(same length as geometry matrices)
.r1
.r2
matrices of the radial coordinates
of the Yin and Yang grids
.x1
.x2
matrices of the x coordinates
of the Yin and Yang grids
.y1
.y2
matrices of the y coordinates
of the Yin and Yang grids
.z1
.z2
matrices of the z coordinates
of the Yin and Yang grids
.v1
.v2
matrices of the scalar field on the Yin and Yang
grids (or L2-norm of vectorial field if vectorial field)
.vx1
.vx2
matrices of the x-component of the vectorial field
on the Yin and Yang grids
.vy1
.vy2
matrices of the y-component of the vectorial field
on the Yin and Yang grids
.vz1
.vz2
matrices of the z-component of the vectorial field
on the Yin and Yang grids
.P1
.P2
matrices of the 'Pressure'-component of the vectorial field
on the Yin and Yang grids (in the case of a 'Pressure-velocity' field)
.vr1
.vr2
matrices of the radial-component of the vectorial field
on the Yin and Yang grids
.vtheta1
.vtheta2
matrices of the theta-component of the vectorial field
on the Yin and Yang grids
.vphi1
.vphi2
matrices of the phi-component of the vectorial field
on the Yin and Yang grids


StagCartesianGeometry
2D/3D
Inherited functions
from *MainStagObject*
.fieldType
field contains in the current instance
(like 'Temperature' or 'Viscosity')
.fieldNature
nature of the field ('scalar' or 'vectorial')
.path
path to the stagyy file
.fname
file name of the read stagyy file
.resampling
resampling parameters
.header
raw header of the stagyy file
.simuAge
dimensionless time of the simulation
.ti_step
inner step of the stag simualtion state
.flds
raw data field of the stagyy file
.x_coords
.y_coords
.z_coords
raw x y and z coordinates contained in the stagyy
file header (pre-processed geometry but
modified by the resampling)
.slayers
matrix of selected (keep after resampling) layers
.depths
depths in real Earth for each layers
.rcmb
real radius of the Core-Mantle Boundary
.nx0
.ny0
.nz0
number of points in the x y and z
direction in the original input file
(before resampling)
.nx
.ny
.nz
current number of points in the x y
and z direction (after
resampling and processing)
Own fields
uninherited
.x
matrices of the x coordinates
.y
matrices of the y coordinates
.z
matrices of the z coordinates
.v
matrices of the scalar field
(or L2-norm of vectorial field if vectorial field)
.vx
matrices of the x-component of the vectorial field
.vy
matrices of the y-component of the vectorial field
.vz
matrices of the z-component of the vectorial field
.P
matrices of the 'Pressure'-component of the vectorial field
(in the case of a 'Pressure-velocity' field)


StagSphericalGeometry
2D/3D
Inherited functions
from *MainStagObject*
.fieldType
field contains in the current instance
(like 'Temperature' or 'Viscosity')
.fieldNature
nature of the field ('scalar' or 'vectorial')
.path
path to the stagyy file
.fname
file name of the read stagyy file
.resampling
resampling parameters
.header
raw header of the stagyy file
.simuAge
dimensionless time of the simulation
.ti_step
inner step of the stag simualtion state
.flds
raw data field of the stagyy file
.x_coords
.y_coords
.z_coords
raw x y and z coordinates contained in the stagyy
file header (pre-processed geometry but
modified by the resampling)
.slayers
matrix of selected (keep after resampling) layers
.depths
depths in real Earth for each layers
.rcmb
real radius of the Core-Mantle Boundary
.nx0
.ny0
.nz0
number of points in the x y and z
direction in the original input file
(before resampling)
.nx
.ny
.nz
current number of points in the x y
and z direction (after
resampling and processing)
Own fields
uninherited
.x
.y
.z
matrices of the x y and z coordinates
(in spherical projection)
.xc
.yc
.zc
matrices of the x y and z coordinates
(in cartesian projection - un-projected)
.v
matrices of the scalar field
(or L2-norm of vectorial field if vectorial field)
.vx
matrices of the x-component of the vectorial field
.vy
matrices of the y-component of the vectorial field
.vz
matrices of the z-component of the vectorial field
.P
matrices of the 'Pressure'-component of the vectorial field
(in the case of a 'Pressure-velocity' field)
.vr
matrix of the radial-component of the vectorial field
.vtheta
matrix of the theta-component of the vectorial field
.vphi
matrix of the phi-component of the vectorial field