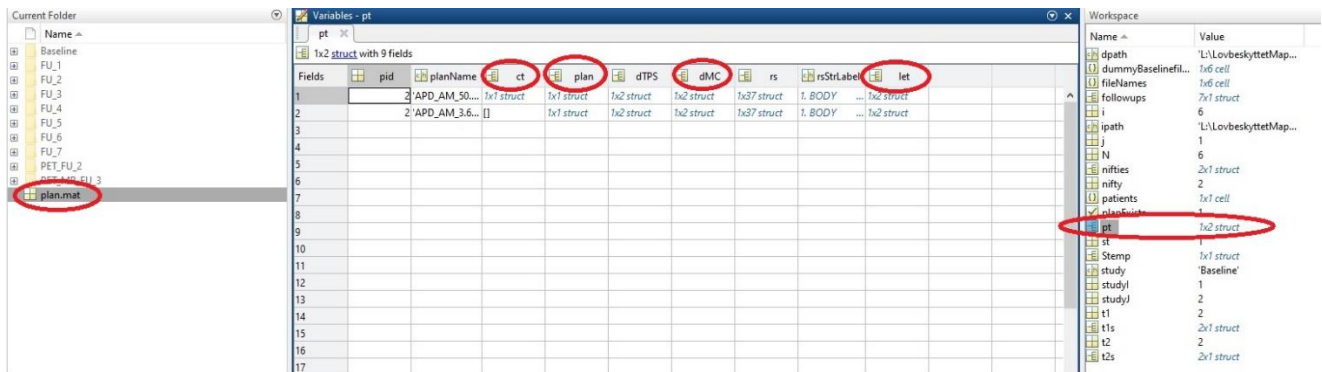


## Pt data structure

One way around the specific plan.mat file we used in our study, is to create a matlab data array with your own data with the following substructures:



Variables - pt(1).ct	
pt(1).ct	
Field	Value
X	512x512x280 double
pos	[-250 -250 -182.7500]
dx	[0.9766 0.9766 1.2500]
x0	[-250.4883 -250.4883 -183.3750]
xn	[249.5115 249.5115 166.6250]
n	[512;512;280]

Where the "ct" contains:

Here, the code will need the "X", "pos", "dx", "x0", "xn" and "n" variable. They describe:

-the CT scan (X)

-the position (pos), the dimensions of each voxel (dx)

-the origin-voxel ( $x0 = pos - dx/2$ )

-Distance to center of CT volume ( $xn = (n-1)*dx/2$ )

-and the number of voxels (n), respectively.