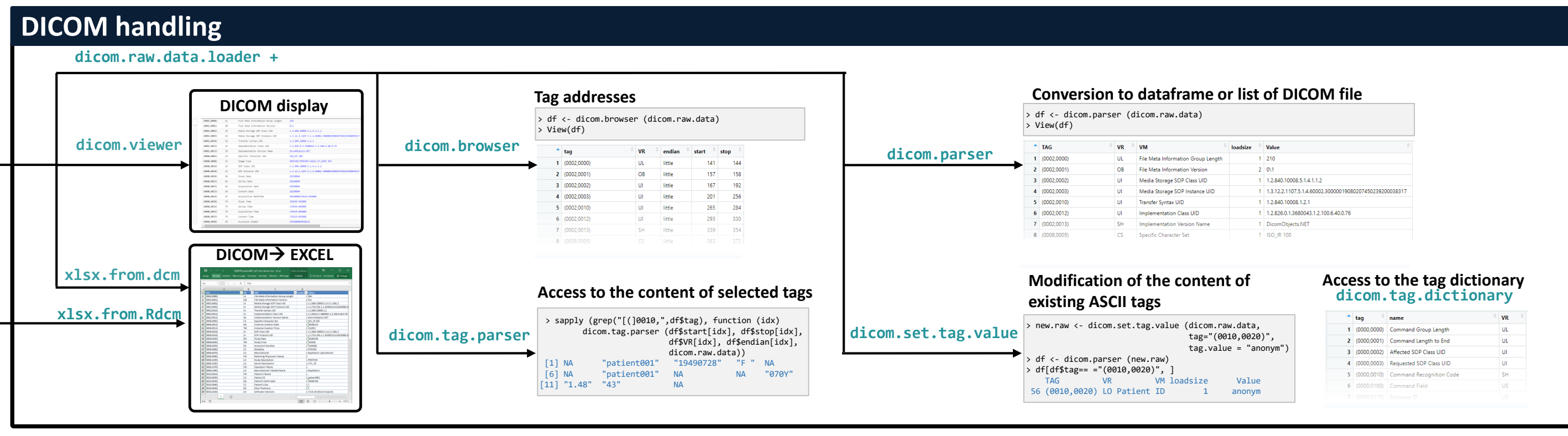
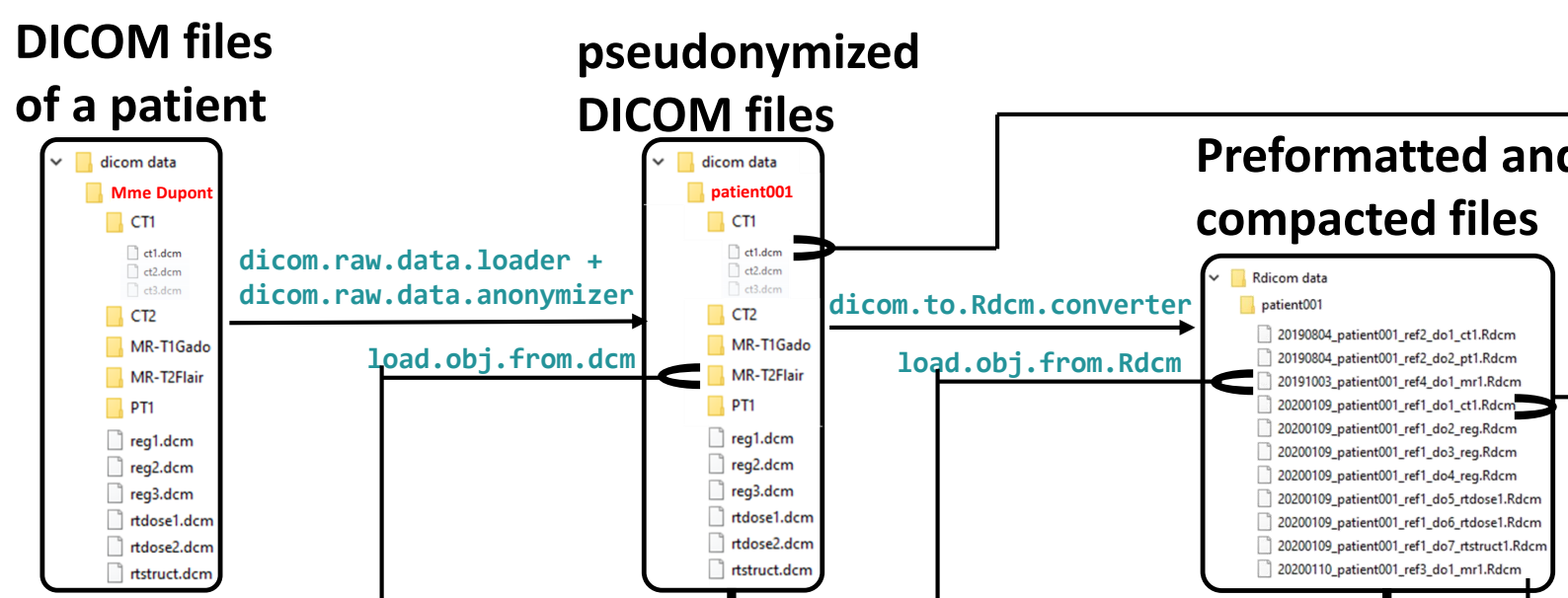


Main functions



Patient Oriented View

pat	list [10]	List of length 10
patient	list [1 x 3] (S3: data.frame)	A data.frame with 1 row and 3 columns
pat.pseudo	character [1]	'patient001'
description	list [11 x 9] (S3: data.frame)	A data.frame with 11 rows and 9 columns
description.by.reg	list [1]	List of length 1
T.MAT	list [3] (S3: t.mat)	List of length 3
ct	list [2]	List of length 2
20200109_patient001...	list [29] (S3: volume)	List of length 29
20190804_patient001...	list [29] (S3: volume)	List of length 29
20200110_patient001...	list [29] (S3: volume)	List of length 29
20191003_patient001...	list [29] (S3: volume)	List of length 29
pt	list [1]	List of length 1
20190804_patient001...	list [29] (S3: volume)	List of length 29
rtdose	list [2]	List of length 2
20200109_patient001...	list [31] (S3: volume)	List of length 31
20200109_patient001...	list [31] (S3: volume)	List of length 31
rtstruct	list [1]	List of length 1
20200109_patient001...	list [23] (S3: struct)	List of length 23

load.obj.data → Objects links Representation (display.obj.links)

load.T.MAT → T.MAT

Geometric tools

Volume increase or decrease
Around a Roi: nesting.roi
In a cube: nesting.cube
Margin addition: add.margin

Resampling
vol.regrid

Volume creation
vol.copy
vol.create

Collecting data
From plane: get.plane
From line: get.line
From points: get.value.from.xyz, get.value.from.ij

Volume data
get.volume.from.bin
get.volume.from.roi

Space coordinates
Moving from one space to another: espadon index \$vol3D.data[index]
get.ijk.from.index → get.ijk.from.xyz
get.xyz.from.index → get.value.from.xyz

Frame of reference
Extreme points: get.extreme.pt
vol.in.new.ref, struct.innew.ref, mesh.in.new.ref
ref.add, ref.remove, ref.srcdest.add, ref.cutplane.add

Histograms

Differential histogram
histo.from.roi + display.dv_dx or bin.from.roi + histo.from.bin + display.dv_dx

Cumulative histogram
histo.DVH + display.DVH

2D histogram
histo.2D + display.2D.histo

3D Representation

display.3D.contour
bin.from.roi, mesh.from.bin, display.3D.mesh
Saving in *.obj: obj.from.mesh

display.3D.stack
display.3D.sections

2D Representation

Plane (cut planes FoR): display.kplane
Transverse, frontal et sagittal view, for any FoR: display.plane
display.legend
display.palette
pal.RVV

Binary processing

Binary mask generation: bin.from.roi
Volume selection from mask: vol.from.bin

Filters on binary volumes: bin.erosion, bin.dilation, bin.closing, bin.opening, bin.clustering

Operations on binary volumes: bin.intersection, bin.sum, bin.substraction, bin.inversion, bin.intersection

From imaging volume: bin.from.vol

Binary Volume Clustering: bin.from.vol + struct.from.bin, bin.from.vol + mesh.from.bin

Roi generation, Mesh generation

Radiotherapy indices

rt.indices.from.roi
rt.indices.from.bin

Dosimetry : D.min, D.max, D.mean, STD, D.x%

Volume : volume, area, V.xGy

Conformity Indices

Homogeneity Indices

Gradient Index