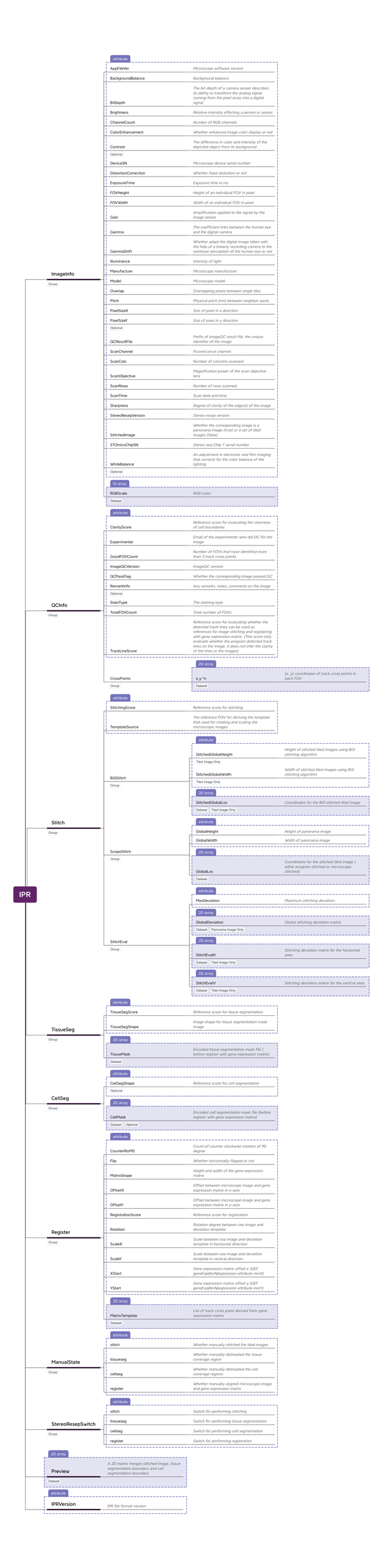
IPR
ImageInfo
Group
attribute
AppFileVer
Microscope software version
BackgroundBalance
Background balance
BitDepth
The bit-depth of a camera sensor describes its ability to transform the analog signal coming from the pixel array into a digital signal
Brightness
Relative intensity affecting a person or sensor
ChannelCount
Number of RGB channels
ColorEnhancement
Whether enhanced image color display or not
Contrast
The difference in color and intensity of the depicted object from its background
Optional
DeviceSN
Microscope device serial number
DistortionCorrection
Whether fixed distortion or not
ExposureTime
Exposure time in ms
FOVHeight
Height of an individual FOV in pixel
FOVWidth
Width of an individual FOV in pixel
Gain
Amplification applied to the signal by the image sensor
Gamma
The coefficient links between the human eye and the digital camera
GammaShift
Whether adapt the digital image taken with the help of a linearly recording camera to the nonlinear perception of the human eye or not
Illuminance
Intensity of light
Manufacture
Microscope manufacture
Model
Microscope model
Overlap
Overlapping pixels between single tiles
Pitch
Physical pitch (nm) between neighbor spots
PixelSizeX
Size of pixel in x direction
PixelSizeY
Size of pixel in y direction
Optional
QCResultFile
Prefix of imageQC result file, the unique identifier of the image
ScanChannel
Fluorescence channel
ScanCols
Number of columns scanned
ScanObjective
Magnification power of the scan objective lens
ScanRows
Number of rows scanned
ScanTime
Scan date and time
Sharpness
Degree of clarity of the edge(s) of the image
StereoResepVersion
Stereo-resep version
StitchedImage
Whether the corresponding image is a panorama image (true) or a set of tiled images (false)
STOmicsChipSN
Stereo-seq Chip T serial number
WhiteBalance
An adjustment in electronic and film imaging that corrects for the color balance of the lighting
Optional
1D array
RGBScale
RGB color
Dataset
QCInfo
Group
attribute
ClarityScore
Reference score for evaluating the clearness of cell boundaries
Experimenter
Email of the experimenter who did QC for the image
GoodFOVCount
Number of FOVs that have identified more than 5 track cross points
ImageQCVersion
ImageQC version
QCPassFlag
Whether the corresponding image passed QC
RemarkInfo
Any remarks, notes, comments on the image
Optional
StainType
The staining type
TotalFOVCount
Total number of FOVs
TrackLineScore
Reference score for evaluating whether the detected track lines can be used as references for image stitching and registering with gene expression matrix. (This score only evaluate whether the program detected track lines on the image, it does not infer the clarity of the lines or the images)
CrossPoints
Group
2D array
x,y *n
(x, y) coordinates of track cross points in each FOV
Dataset
Stitch
Group
attribute
StitchingScore
Reference score for stitching
TemplateSource
The reference FOV for deriving the template that used for rotating and scaling the microscopic images
BGIStitch
Group
attribute
StitchedGlobalHeight
Height of stitched tiled images using BGI stitching algorithm
Tiled Image Only
StitchedGlobalWidth
Width of stitched tiled images using BGI stitching algorithm
Tiled Image Only
2D array
StitchedGlobalLoc
Coordinates for the BGI stitched tiled image
Dataset
Tiled Image Only
ScopeStitch
Group
attribute
GlobalHeight
Height of panorama image
GlobalWidth
Width of panorama image
2D array
GlobalLoc
Coordinates for the stitched tiled image (either program stitched or microscope stitched)
Dataset
StitchEval
Group
attribute
MaxDeviation
Maximum stitching deviation
2D array
GlobalDeviation
Global stitching deviation matrix
Dataset
Panorama Image Only
2D array
StitchEvalH
Stitching deviation matrix for the horizontal axes
Dataset
Tiled Image Only
2D array
StitchEvalV
Stitching deviation matrix for the vertical axes
Dataset
Tiled Image Only
TissueSeg
Group
attribute
TissueSegScore
Reference score for tissue segmentation
TissueSegShape
Image shape for tissue segmentation mask image
2D array
TissueMask
Encoded tissue segmentation mask file (before register with gene expression matrix)
Dataset
CellSeg
Group
attribute
CellSegShape
Reference score for cell segmentation
Optional
2D array
CellMask
Encoded cell segmentation mask file (before register with gene expression matrix)
Dataset
Optional
Register
Group
attribute
CounterRot90
Count of counter clockwise rotation of 90 degree
Flip
Whether horizontally flipped or not
MatrixShape
Height and width of the gene expression matrix
OffsetX
Offset between microscope image and gene expression matrix in x-axis
OffsetY
Offset between microscope image and gene expression matrix in y-axis
RegistrationScore
Reference score for registration
Rotation
Rotation degree between raw image and deviation template
ScaleX
Scale between raw image and deviation template in horizontal direction
ScaleY
Scale between raw image and deviation template in vertical direction
XStart
Gene expression matrix offset x (GEF geneExpBinN(expression attribute minX)
YStart
Gene expression matrix offset y (GEF geneExpBinN(expression attribute minY)
2D array
MatrixTemplate
List of track cross point derived from gene expression matrix
Dataset
ManualState
Group
attribute
stitch
Whether manually stitched the tiled images
tissueseg
Whether manually delineated the tissue coverage region
cellseg
Whether manually delineated the cell coverage regions
register
Whether manually aligned microscope image and gene expression matrix
StereoResepSwitch
Group
attribute
stitch
Switch for performing stitching
tissueseg
Switch for performing tissue segmentation
cellseg
Switch for performing cell segmentation
register
Switch for performing registration
2D array
Preview
A 2D matrix merges stitched image, tissue segmentation boundary and cell segmentation boundary
Dataset
attribute
IPRVersion
IPR file format version