

WorkstationJ Script File Description & Syntax

The Single CT Chest Viewer and MultiModality Three Registered CT plugins use script files. These script files are text files written in the *WorkstationJ* script file syntax. A script file provides the specifications for the display of one or more cases by the *WorkstationJ* plugin. The script syntax consists of the keywords: COM, TTL, NOT, VOX, TIF, SKP, NOT, RND, TAG, SET, and PWD. Each of these keywords is delimited from a value specification by a dollar sign character (\$). A dollar sign by itself on a line is used to separate one case specification from another in the script file. Brief descriptions and examples follow.

The **COM** keyword is used to provide a comment/description for the case. The comment is not displayed onscreen during the case presentation, but it is used in the case selection dialogs. A comment is limited to a single line of text and cannot contain line break characters (i.e., no carriage return or line feed characters).

Example: COM\$ case 01

The **TTL** keyword is used to provide the path to a TIFF format image file to be displayed in one of the title cells of the case display. These can be used to provide information such as case number, age of the patient, gender of the patient, etc. The *WorkstationJ* plugins permit a maximum of four title images per case so a case description can contain a maximum of four TTL keywords. The plugins require that either zero or four title slots be specified. The title cells are filled in the order the TTL and NOT keywords are provided in the script file. If you only wish to provide one title image, then you must indicate the other three title slots should be empty by providing the NOT keywords (see below). Thus, you must either have zero TTL and NOT keywords per case, or you must have a sum/total of four TTL and NOT keywords in combination per case.

Example: TTL\$ D:\WJ_Sample\Title TIFF\patients\33M.tif

The **NOT** keyword is used to indicate that a title cell should be empty. Cases can have either zero or four title cells. The title cells are filled in the order the TTL and NOT keywords are provided in the script file. If the script file contains a TTL keyword followed by three NOT keywords, the first title cell filled and the remaining three are empty.

Example: NOT\$

The **VOX** keyword is used to specify the path to a computed tomography (CT) image to be loaded into one of the image cells for the case. The CT image must be in the voxel file format. In the current version, *WorkstationJ* plugins that implement perception studies do not support the DICOM file format. The tomographic images must first be converted from DICOM to voxel format using the Convert DICOM To Voxel plugin. The image cells are filled in the order the VOX, TIF, and SKP files are provided in the script file. The VOX keyword fills three image cells because the axial, sagittal, and coronal views are loaded.

Example: VOX\$ D:\WJ_Sample\Sample Images\practice\CT 215.vox

The **TIF** keyword is used to specify the path to a digital/computed radiography (CR) image to be displayed in one of the image cells for the case. The CR image must be in the TIFF file format. CRs must be converted from DICOM to TIFF format. This can be done by opening the image in *ImageJ* using the **File -> Open** command and using the **File -> Save As** command to save it in TIFF format. It is possible to specify

Example: D:\WJ_Sample\Title TIFF\Numbers\demo.tif

Example: TIF\$ D:\demo\NSCT 53_KNEEAPOBL_1.tif; w=500; l=1000

Example: TIF\$ D:\demo\NSCT 53_KNEELATERAL_2.tif; w=1500; l=500; a=false

Example: TIF\$ D:\demo\NS176_HAND_1.tif; w=2500; l=2000; a=true

The **SKP** keyword is used to indicate that an image cell should be empty. The various WorkstationJ experiment presentation plugins permit different numbers of image cells. For example, the **MultiModality Three Registered CT** plugin permits four title cells and three rows of four image cells (or four rows of four image cells if no title cells are specified). Thus, that plugin permits a total of 12 cells (16 with no title images) to be specified via VOX, TIF, and SKP keywords.

Example: SKP\$

The **RND** keyword is used to specify how the case presentation should be randomized. The tokens that control how the randomization is implemented are described in a separate document (*WorkstationJ Case Randomization Keywords.pdf*). If no RND keyword is specified, the cases are presented in the order of presentation in the script file. Only one RND specification is permitted per case file.

Example: RND\$ fixed=6; blocks=2; prompt=1; runlimit=3

The **TAG** keyword is used to tag a case as being of a particular type. For example, the user could set a **casetype** of 0 for normal cases and a **casetype** of 1 for abnormal cases. This keyword is used in conjunction with the **runlimit** option for the RND keyword.

Example: TAG\$ casetype=0

The **SET** keyword is used to set startup options for the case presentation. Currently, the only option that can be set is the initial window/level preset display for the cases. The **wlpreset** options are bone, lung, and mdst (for mediastinum).

Example: SET\$ wlpreset=lung

The **PWD** keyword is used to specify the password/passkey value that is used to enable the advanced navigation options in the case navigation GUI. If no password is specified, the default password of "0000" is used. If a password of "0" is specified, then no password is needed and the advanced navigation controls are enabled by default.

Example: PWD\$ passcode=1234 (set the password to be "1234")

Example: PWD\$ passcode=abc (set the password to be "abc")

Example: PWD\$ passcode=0 (no password needed, controls unlocked by default)