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| Objective 1 [15%] | /10 |
| **Load RadCTTACEomics\_DDDD CT and segmentation**  ✅Both images are loaded with PyDicom, and their corresponding headers have been studied.  ✅The slices of the CT image contain only a single acquisition.  ✅The segmentation image is resliced according to the dicom headers.   * The four regions of interest appear on a segmentation (i.e. label image). | |
| **Rotating MIP**  ✅At least one Maximum Intensity Projection has been created.  ✅The image and the regions are both clearly identifiable: colormaps have been correctly used, alpha fusion is used.  ✅An interactive animation with at least 16 projections has been showed. | |

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| Objective 2 [15%] | /10 |
| **Segmentation**   * The centroid and bounding box have been calculated. * A segmentation algorithm has been implemented, and it uses either the centroid or the bounding box. * The segmentation algorithm works in volumetric 3D images, rather than on single slices. * The segmentation algorithm extracts the tumoral region up to its borders. | |
| **Assessment**   * Both the CT image and automatically segmented mask have been visualized together. * Both the provided and automatically segmented masks have been visualized together, and can be easily compared. * Numerical values have been implemented to measure the correctness of the automatic segmentation. | |

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| Objective 3 [15%] | /10 |
| **Image coregistration**   * A rigid motion has been implemented. * The initial parameters are adequate. * A loss function has been implemented. * An optimizer has been successfully used to find the optimal parameters of a rigid motion. * The correctness of the coregistration has been verified with visualizations. | |
| **Mask and assessment**   * The mask has been transformed into the input space. * The inverse transformation has been explicitly found. * Both the input CT image and the transformed liver mask have been visualized together. * Numerical values have been implemented to measure the correctness of the coregistration process. | |

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| Submission [20%] | /10 |
| **Document**   * Written expression is correct and accurate. * Covers all the objectives. * Shows figures of images/ROIs when necessary. * Includes discussions on why certain approaches were preferred over others. * Includes a relevant discussion of the findings and shortcomings of the project. | |
| **Code**   * Is publicly accessible * It contains a Readme and is easy to follow | |