Webgrafía

<https://fsl.fmrib.ox.ac.uk/fsl/fslwiki/FslInstallation/ShellSetup>

<https://www.youtube.com/watch?v=VVYHFQedAXA>

<https://fsl.fmrib.ox.ac.uk/fsl/fslwiki/FslInstallation>

<https://github.com/PixarAnimationStudios/USD/issues/1372>

Previo a la instalación de fsl, tengo que instalar en macOS XQuarz.

<https://fsl.fmrib.ox.ac.uk/fsl/fslwiki/FslInstallation/ShellSetup>

Como utilizo macOS 11, mi Shell no utiliza ni bash ni crsh, sino que utiliza zsh. De modo que, para ejecutar fsl (y fsleyes) he tenido que hacer un setup de los ficheros .zprofile con la configuración que tendría .bash\_profile.

<https://scriptingosx.com/2019/06/moving-to-zsh-part-2-configuration-files/>

Ejemplos de fsleyes render explicados: <https://neuroimaging-core-docs.readthedocs.io/en/latest/pages/image_processing_tips.html>

Las segmentaciones se llaman “labels” en fsleyes (o es una máscara?). Se puede mostrar solo el contorno del label. <https://users.fmrib.ox.ac.uk/~paulmc/fsleyes/userdoc/latest/overlays.html>

Guía de instalación de ANTs: <https://github.com/ANTsX/ANTs/wiki/Compiling-ANTs-on-Linux-and-Mac-OS>

ANTs Wiki: <https://github.com/ANTsX/ANTs/wiki>

Página principal de ANTs: <http://stnava.github.io/ANTs/>

Instalar cmake (para instalar ANTs): <https://stackoverflow.com/questions/52531492/cmake-command-not-found-on-macos>

Vídeo ANTs: <https://www.youtube.com/watch?v=-bUNW1Xha0Q>

WarpMultiTransform Python: <https://nipype.readthedocs.io/en/0.12.1/interfaces/generated/nipype.interfaces.ants.resampling.html>

Warping images using warps generated from other packages: <https://mrtrix.readthedocs.io/en/0.3.15/tutorials/warping_images_with_warps_from_other_packages.html>

Warp Ubuntu: <http://manpages.ubuntu.com/manpages/trusty/man1/WarpImageMultiTransform.1.html>

Cortar imágenes con Python:

<https://www.youtube.com/watch?v=ne_WaIby6yc>

<https://note.nkmk.me/en/python-pillow-image-crop-trimming/>

<https://www.geeksforgeeks.org/python-pil-image-crop-method/>

<https://www.askpython.com/python/examples/crop-an-image-in-python>

<https://stackoverflow.com/questions/36492263/why-am-i-getting-tile-cannot-extend-outside-image-error-when-trying-to-split-ima>

Eliminar márgenes:

<http://jsfiddle.net/SVdrq/>

<https://www.w3schools.com/css/css_howto.asp>

<https://stackoverflow.com/questions/30208335/removing-body-margin-in-css>

<https://stackoverflow.com/questions/31759125/image-no-margin-inside-a-div/31759172>

Ocupar la mayor parte de la hoja:

<https://www.geeksforgeeks.org/python-pil-image-crop-method/>

<https://developer.mozilla.org/es/docs/Web/CSS/object-fit>

Imágenes NIFTI:

<http://oa.upm.es/56310/1/TFG_ROBERTO_GARRIDO_GARCIA.pdf>

Librería Matlab para cargar niftis: <https://es.mathworks.com/matlabcentral/fileexchange/8797-tools-for-nifti-and-analyze-image>

*10. load\_untouch\_nii.m: Load N-Dimensional NIfTI file (where N can be from 3 to 7) or ANALYZE file (where N can be from 3 to 4), but do not apply any changes that are indicated in the header. WARNING: Do not use "view\_nii.m" to view the structure that is loaded by "load\_untouch\_nii.m".*

Calcular el volumen de la lesión con Matlab

<https://es.mathworks.com/matlabcentral/answers/357272-how-to-calculate-the-volume-of-the-segmented-tumour-or-roi>

<https://es.mathworks.com/matlabcentral/answers/272323-how-to-calculate-sum-of-black-pixel-in-binary-image>

<https://es.mathworks.com/matlabcentral/answers/84201-counting-voxels-in-a-binary-mask>

Calcular coordenadas del centroide:  
<https://es.mathworks.com/help/images/ref/regionprops.html#buoixjn-1-BW>

<https://stackoverflow.com/questions/31940226/detecting-the-geometry-of-irregular-regions-in-an-image-in-matlab>

Datos OMS:  
<https://www.who.int/mental_health/neurology/neurological_disorders_report_web.pdf?ua=1>

Gráficos con Python:

pip install pandas

pip install matplotlib

sudo pip3.8 install openpyxl  
Para csv: <https://stackoverflow.com/questions/62374618/how-to-plot-a-graph-from-csv-in-python>

<https://www.youtube.com/watch?v=7VHvxOHNf_M>

vídeo scatterplot: <https://www.youtube.com/watch?v=zZZ_RCwp49g>

<https://swcarpentry.github.io/python-novice-gapminder/09-plotting/>

scatterplot: <https://medium.com/python-pandemonium/data-visualization-in-python-scatter-plots-in-matplotlib-da90ac4c99f9>

scatterplots chulos: <https://jakevdp.github.io/PythonDataScienceHandbook/04.02-simple-scatter-plots.html>

no handles with labels error: <https://stackoverflow.com/questions/59346731/no-handles-with-labels-found-to-put-in-legend>

<https://stackoverflow.com/questions/62374618/how-to-plot-a-graph-from-csv-in-python>

Documentación oficial matlib: <https://matplotlib.org/3.2.2/gallery/misc/plotfile_demo_sgskip.html>

Python plotting tutorial video: https://www.youtube.com/watch?v=0P7QnIQDBJY

Generar números aleatorios en Excel:

<https://www.estadisticaparatodos.es/taller/aleatorios/alea_num_excel.html>

Ordenar valores de csv en Python (añadiendo librería numpy):

<https://stackoverflow.com/questions/47309918/wrong-order-in-matplotlib-pyplot-scatter-plot-axis>

Marcas en los ejes de plot en matplotlib:

<https://interactivechaos.com/es/manual/tutorial-de-matplotlib/marcas-de-ejes>

Salto de página en HTML:

<https://www.w3schools.com/cssref/pr_print_pageba.asp>

<https://help.moreapp.com/es/support/solutions/articles/13000032909-cómo-agregar-un-salto-de-página-a-tu-informe-pdf-moreapp>

Dividir el html en secciones para el css:

<https://www.mclibre.org/consultar/htmlcss/html/html-secciones.html>

Estilos para el texto css:

<https://edu.gcfglobal.org/en/basic-css/text-styling-in-css/1/>

<https://www.w3schools.com/css/css_font.asp>

Transformar con pandas % a float:

<https://www.codegrepper.com/code-examples/python/convert+string+percentage+to+float+pandas>

Transformar con pandas de string a float:  
<https://eduzen.com.ar/en/post/python-pandas-convert-string-decimal-to-float-como/>

<https://datatofish.com/integer-to-float-dataframe/>

<https://www.kite.com/python/answers/how-to-convert-a-pandas-dataframe-column-of-strings-to-floats-in-python>

Leer csv con numpy:

<https://dev.to/marcelgeo/problems-by-reading-csv-file-with-numpy-python-library-1804>

<https://stackoverflow.com/questions/3518778/how-do-i-read-csv-data-into-a-record-array-in-numpy>

<https://www.kite.com/python/answers/how-to-plot-data-from-a-csv-file-in-python>

Pandas plotting:

<https://www.kite.com/python/answers/how-to-plot-data-from-a-csv-file-in-python>

<https://www.dataindependent.com/pandas/pandas-scatter-plot/>

Scatterplot en seaborn:

<https://seaborn.pydata.org/generated/seaborn.scatterplot.html>

Tipos de gráficos con matplotlib:

Continuos variable plots: <https://www.analyseup.com/python-data-science-reference/seaborn-continuous-variables.html>

<https://www.machinelearningplus.com/plots/top-50-matplotlib-visualizations-the-master-plots-python/>

Resaltar un punto concreto en scatter plot: <https://stackoverflow.com/questions/38512485/highlight-specific-points-in-matplotlib-scatterplot>

<https://stackoverflow.com/questions/41489543/using-matplotlib-how-to-highlight-one-point-in-the-final-plot>

<https://cmdlinetips.com/2019/11/how-to-highlight-data-points-with-colors-and-text-in-python/>

Usar dataframes diferentes en un mismo plot: <https://stackoverflow.com/questions/59766933/plots-different-columns-of-different-dataframe-in-one-plot-as-scatter-plot>

Dibujar una línea dentro de scatter: <https://stackoverflow.com/questions/12981696/how-to-draw-line-inside-a-scatter-plot>

Set\_context de seaborn: <https://seaborn.pydata.org/generated/seaborn.set_context.html>

Combinar columnas concretas de excel con pandas:

<https://www.geeksforgeeks.org/how-to-merge-two-csv-files-by-specific-column-using-pandas-in-python/>

<https://www.youtube.com/watch?v=dcQs8k9WGbY>

sns.pointplot:

<https://seaborn.pydata.org/generated/seaborn.pointplot.html>

Dibujar una línea en scatterplot:

<https://stackoverflow.com/questions/24988448/how-to-draw-vertical-lines-on-a-given-plot-in-matplotlib>