$\begin{array}{c} \texttt{scipy.io.loadmat} \\ \texttt{matplotlib} \\ \texttt{imshow} \\ matrix_heatmap.pngYoungSCMatrixHeatmap} \\ matrix_heatmap.pngAdultSCMatrixHeatmap} \\ matrix_heatmap.pngOldSCMatrixHeatmap} \\ \texttt{networkx} \\ \texttt{community} \\ graph.pngYoungSCGraphwithCommunities} \\ graph.pngAdultSCGraphwithCommunities} \\ graph.pngOldSCGraphwithCommunities \\ graph.pngOldSCGraphwithCommunities \\ \end{array}$