



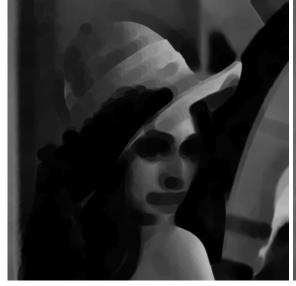
lena_gray.png



dilation disk-10.png lena_gray.png a.png



dilation cross-10.png lena_gray.png a.png



erosion disk-10.png lena_gray.png a.png



erosion cross-10.png lena_gray.png a.png



lena_gray.png



opening disk-10.png lena_gray.png a.png



opening cross-10.png lena_gray.png a.png



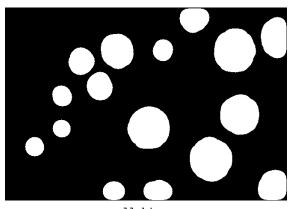
closing disk-10.png lena_gray.png a.png



 ${\tt closing \ cross-10.png \ lena_gray.png \ a.png}$

labeling-color <ims-name> <reg-name> <color-name>

labeling-color cell-bin.png cell-r.png cell-c.png



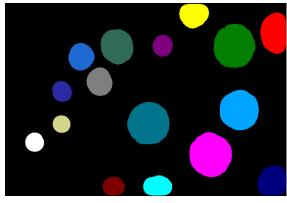
cell-bin.png



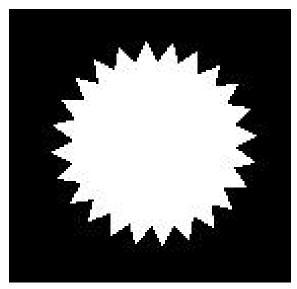
 ${\tt cell-r.png}$



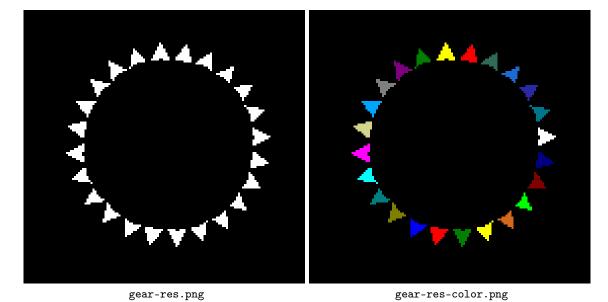
cell-r.png, histogramme équilibré



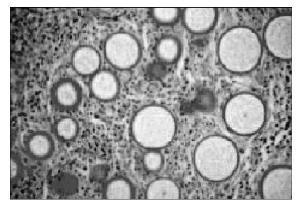
cell-c.png



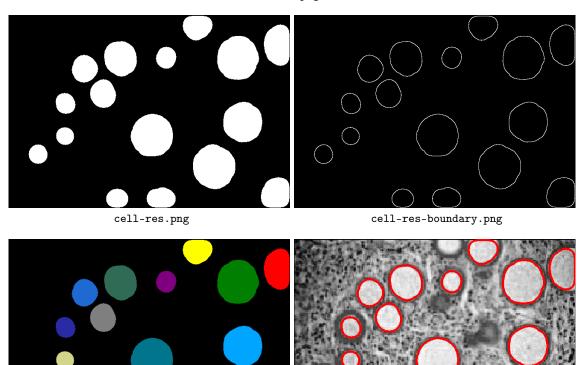
gear.png



extract-cell.sh



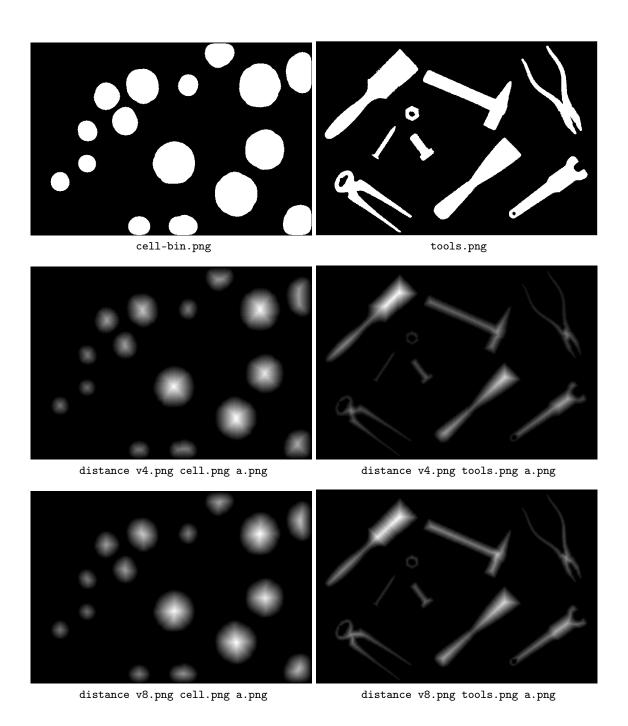
cell.png



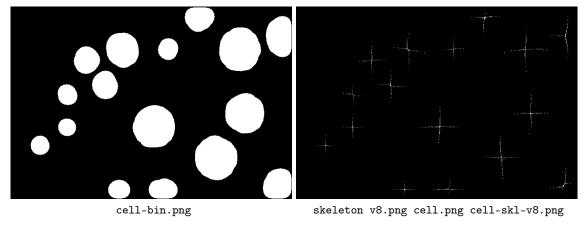
cell-res-color.png

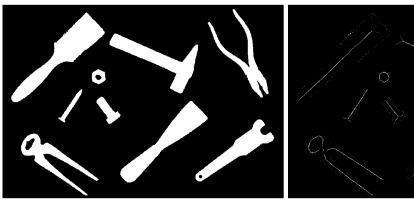
cell-final.png

$$V_4 = \begin{bmatrix} 0 & 1 & 0 \\ 1 & 1 & 1 \\ 0 & 1 & 0 \end{bmatrix} \quad \text{v4.png} \rightarrow \begin{bmatrix} 0 & 255 & 0 \\ 255 & 255 & 255 \\ 0 & 255 & 0 \end{bmatrix} \qquad V_8 = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix} \quad \text{v8.png} \rightarrow \begin{bmatrix} 255 & 255 & 255 \\ 255 & 255 & 255 \\ 255 & 255 & 255 \end{bmatrix}$$



$$V_4 = \begin{bmatrix} 0 & 1 & 0 \\ 1 & 1 & 1 \\ 0 & 1 & 0 \end{bmatrix} \quad \text{v4.png} \ \rightarrow \begin{bmatrix} 0 & 255 & 0 \\ 255 & 255 & 255 \\ 0 & 255 & 0 \end{bmatrix} \qquad V_8 = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix} \quad \text{v8.png} \ \rightarrow \begin{bmatrix} 255 & 255 & 255 \\ 255 & 255 & 255 \\ 255 & 255 & 255 \end{bmatrix}$$





tools.png skeleton v4.png tools.png tools-skl-v4.png