Python application for Image analysis and determination of the optimal safety color.

1. User uploads image (minimum picture width 800 pixels).
2. Software rescales image to 800px width (aspect maintained).
3. User drags, drops and rescales up to 8 worker-icons at locations where people are expected to work.
4. Software analyses the parts of the image included in a rectangular of 3x2 worker height around the workers (yellow rectangular below).
5. Best contrasting safety color is determined based on the color found in those areas

Tools to be used: Python, OpenCV

Why this approach: This approach is expected to be more reliable with respect of choosing background areas that matter and regarding those image areas that will rarely need to contrast with the worker. For example, in picture 1 below the white from the clouds and the silver color of the cargo on the trailers will never come as background on a worker during this transportation job.