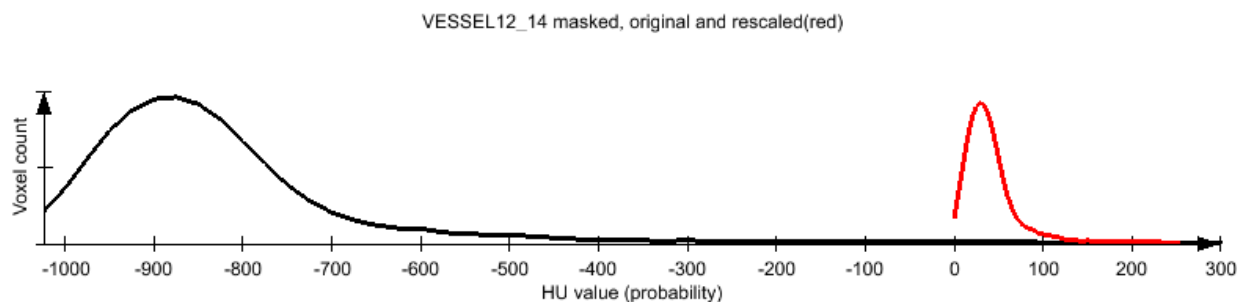


Hu vesselsegmentation

This submission for the VESSEL12 challenge was included as a testing method by challenge organizer Sjoerd Kerkstra. It consists of the original scans, masked using the masks provided with the scans and then rescaled to have values between 0 and 255.

A linear rescaling was used, mapping $[-1024, 200]$ in the original scan to $[0, 255]$ in the rescaled image. An example of the rescaling in a vessel12 scan can be found seen in the image below. Here the black line depicts the distribution of HU values in the original masked image. The red line depicts the distribution after rescaling.

This method will show the success of just using HU values as a predictor of vessel probability. It is expected that it will perform reasonably at finding vessels, as most bright structures in the lungs are vessels. It should have bad performance on any bright non-vessel structures such as airway walls, nodules and any dense abnormality.



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