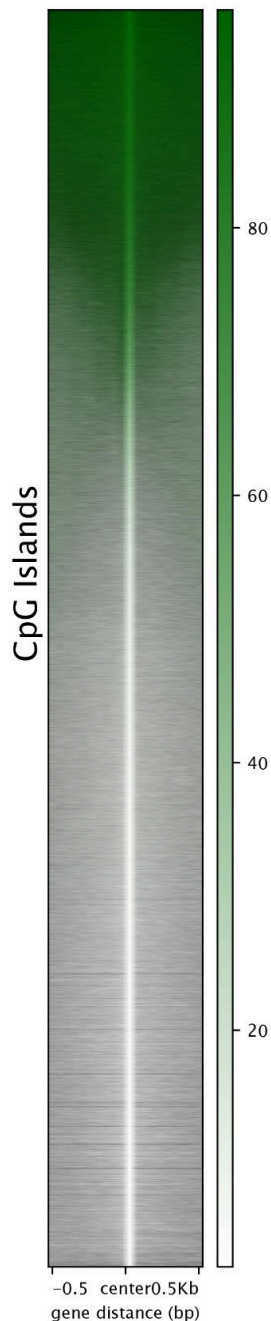


Figure 3. Heatmap of CpG Island Methylation Levels



A heatmap showing the distribution of DNA methylation surrounding a single CpG island which is similar across the entire genome. The x-axis of the heatmap represents a genomic region with a CpG island at the center and 500 base pairs on each side. Each row of the heatmap represents a different region of the DNA where a CpG island was identified and the color is representative of methylation levels at each base pair. Darker colors indicate higher levels of methylation in that region.

(Note to grader: This figure is showing methylation signals for CpG islands/5mC. On our final figure we will use 6mA as that is the marker we are interested in, we are waiting on data.)