Instify a paragraph of words so that it looks aesthetically pleasing Les the spaces between words is as even as possible Badness of a line li: length of the actual text in line i Li: texturieth of line i $\beta_{i} = \begin{cases} \infty & \text{if } l_{i} > l_{i} \\ (l_{i} - l_{i}) & \text{o/} \omega \end{cases}$ divide-the paragraph into lines so-that the total badness of the paragraph is minimized W(i) ← ith word in the paragraph l(i) - length of the ith word Recurrence: for each k, find-the badness when k nords are in the first

Text Justification

Justify (i) badness of-the paragraph starting from W[i+1] b(i,j)-badness q a line that starts with word i and ends with word j $b(i,j) = \begin{cases} b(i,j) = \sum_{k=i}^{j-1} (l(k)+1) + l(j) > L \\ k=i \end{cases}$ $(L-\sum_{k=i}^{j-1} (l(k)+1) + l(j))^{3} = 0/\omega$ $b(i, N) = \begin{cases} \infty & \text{if } \sum (l(k)+1) + l(n) > L \\ k=i & \text{o} \end{cases}$ Justify (i) = min b(i+1, k) + Justify (k) } Justify (n)=0 Justify (o) = badness of the paragraph