* Height-width-ratio of the character

Given: picture of a character

Out: its height-width-ratio

* Functions for horizontal:

Given: picture of a horizontal

Out: feature vector

**Slope of segments(trend of the horizontal)**



e.g. for this horizontial, the slope would be:

+, -, -, -, 0, 0, +, +, + (起笔向下，提笔向上，行笔平直，落笔向下)

* Functions for dot:

Given: picture of a dot

Out: feature vector

**Height-width-ratio**

**Head-tail-ratio**

To find it: leftmost point rightmost point uppermost point lowest point

Make sure not noise point, surround 3\*3 are all “1”s

* For verticals:

Given: picture of a vertical

Out: feature vector

**Slope of segments(trend of the vertical)**

* For throw-away and press-down:

Given: picture of throw-away and press-down:

Out: feature vector

**Slope of changes in thickness in height**

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