PostScript Hints

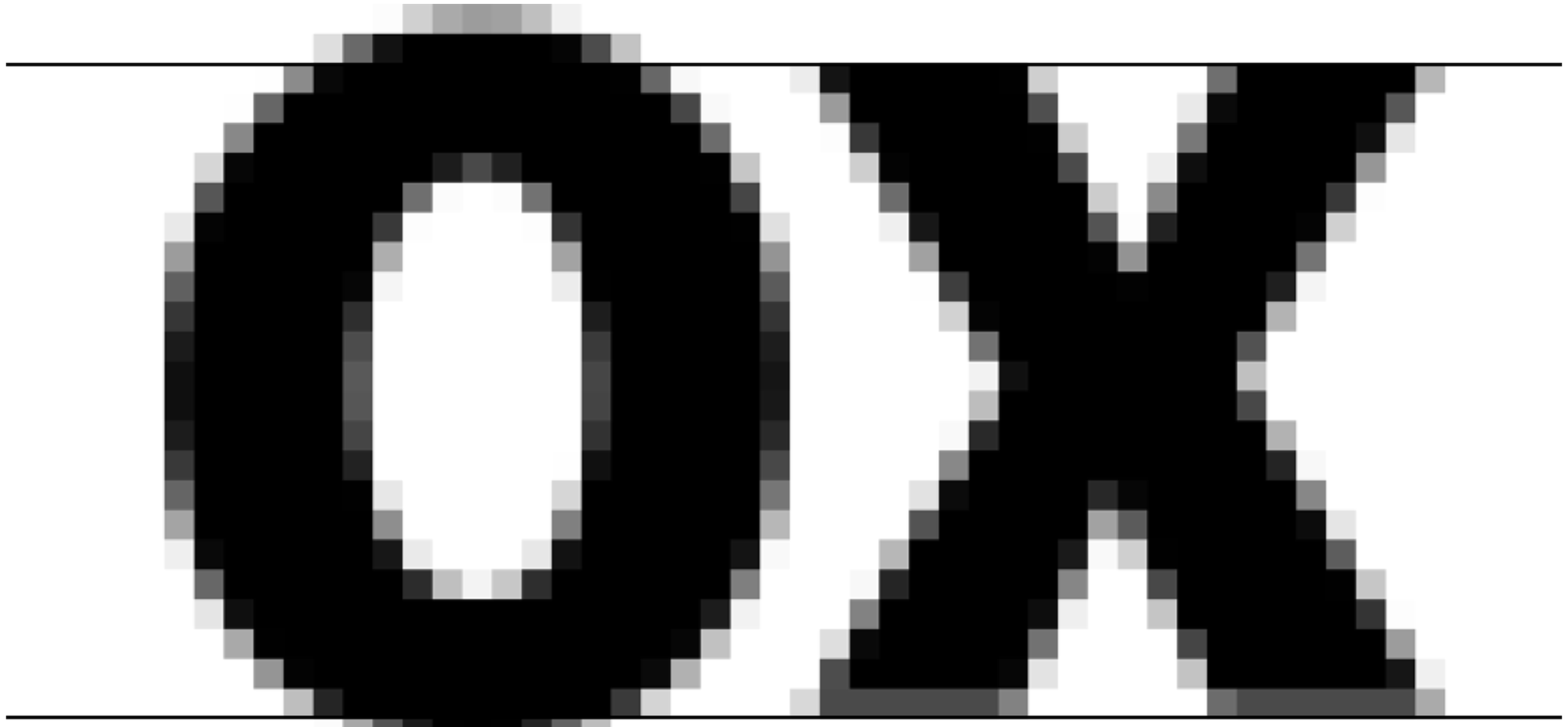
Miguel Sousa

Adobe

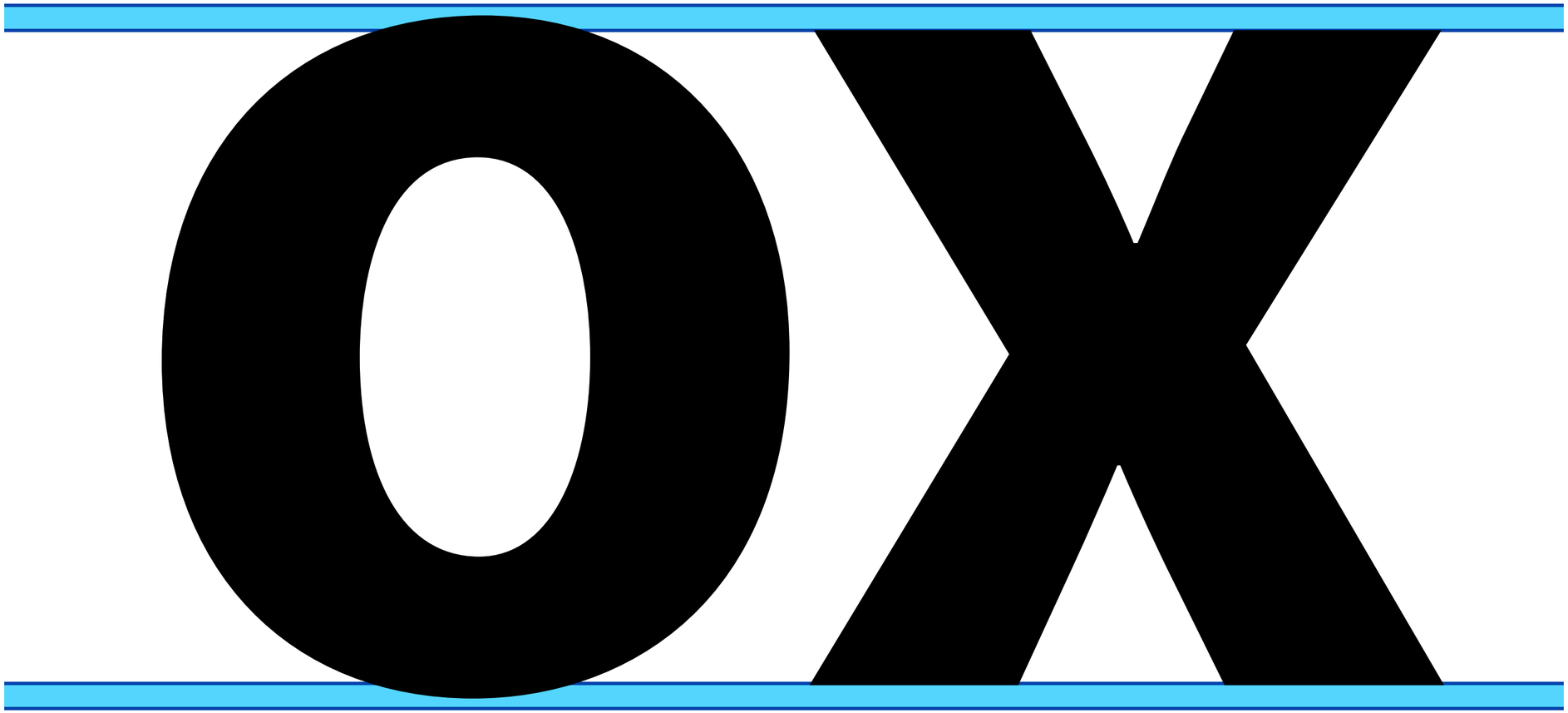
OX

Adobe

Adobe



Adobe



Adobe

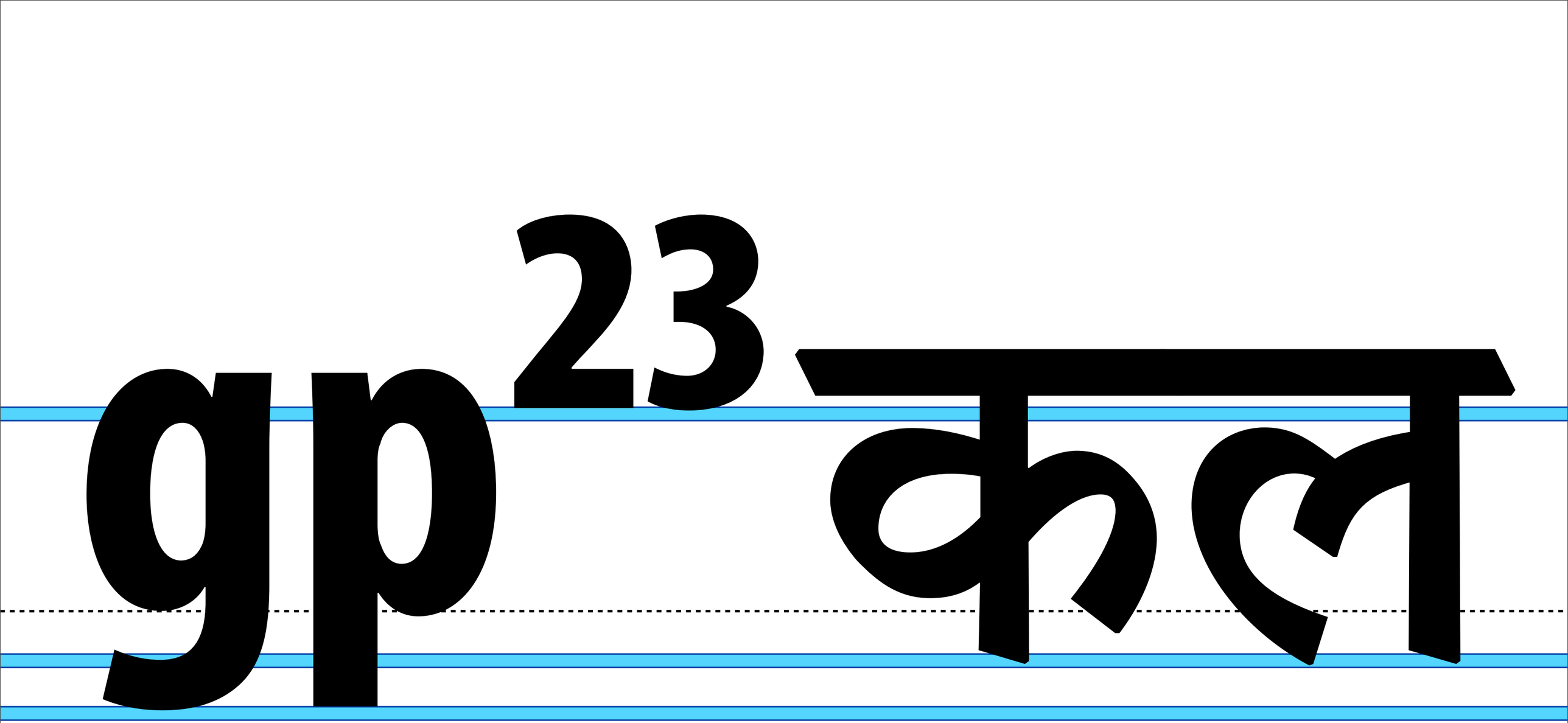
0x0A15b

BlueValues

Adobe

gp^{23} कल

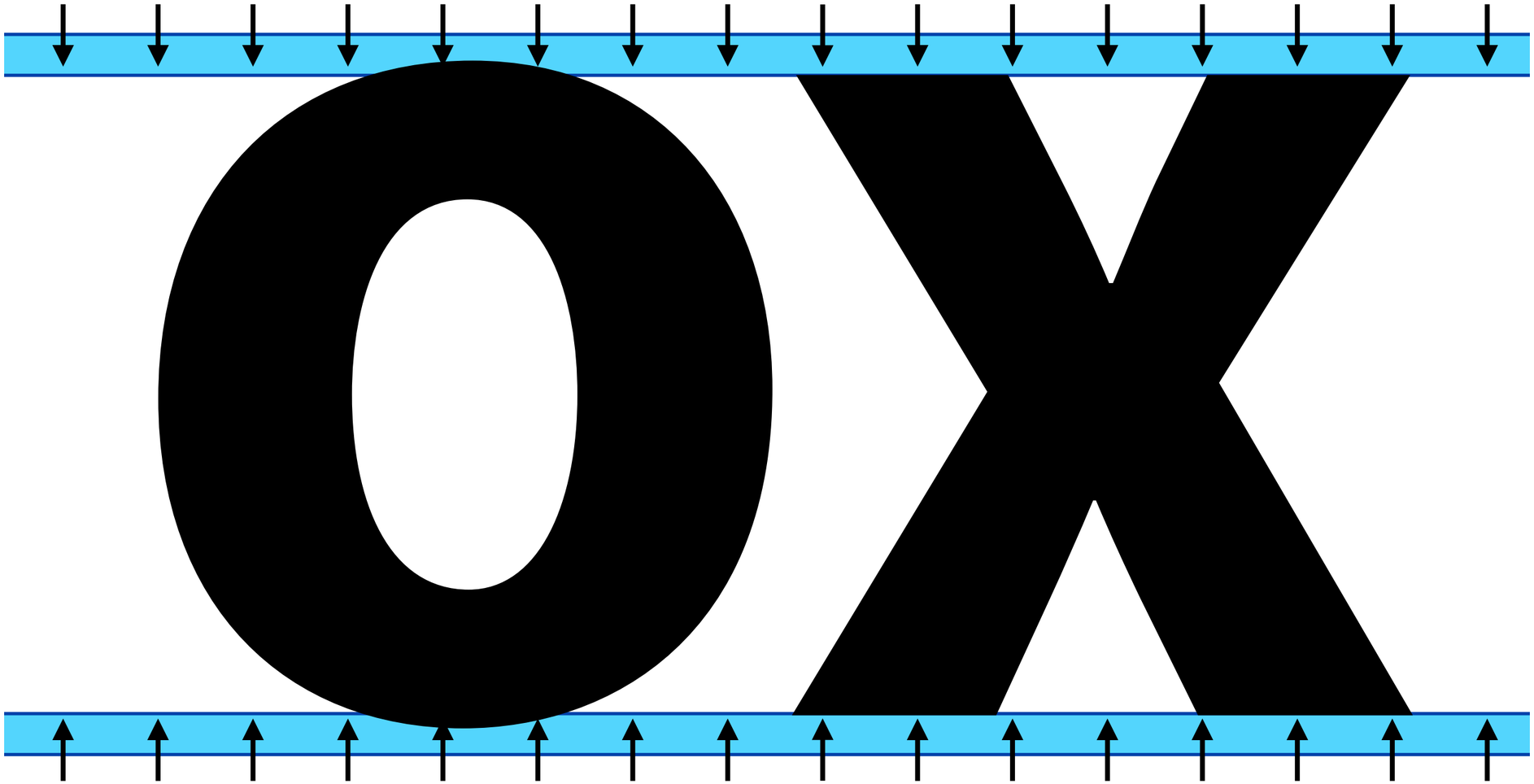
Adobe



OtherBlues

Adobe

8xOH



Adobe

BlueValues

Top alignment zones (+ baseline zone)

OtherBlues

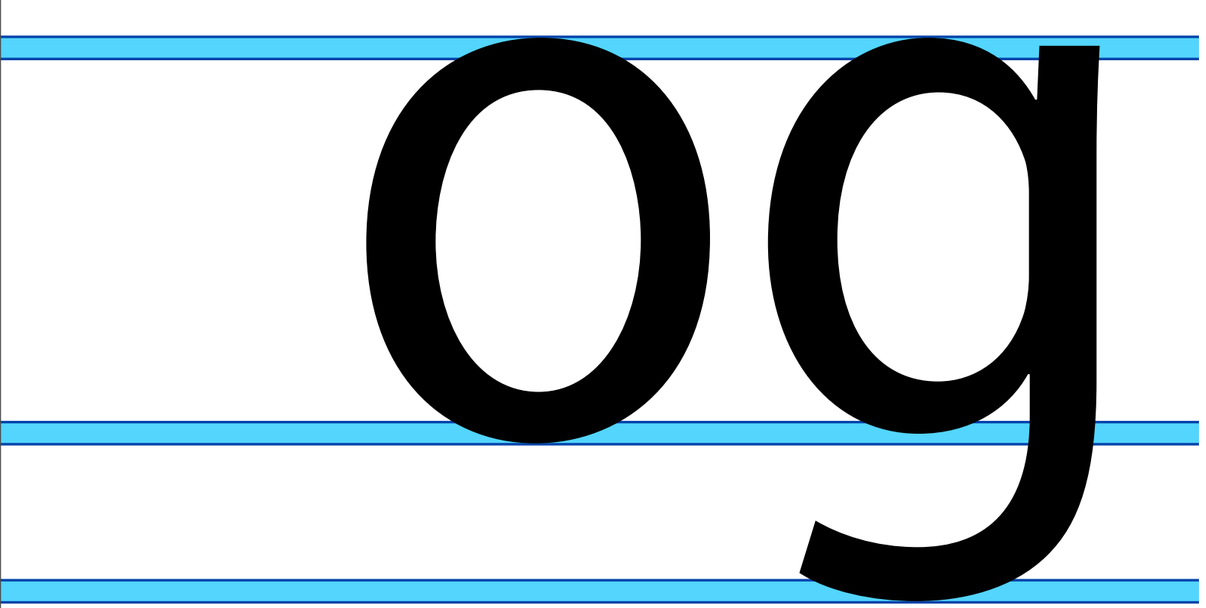
Bottom alignment zones

Adobe

Alignment zone rules

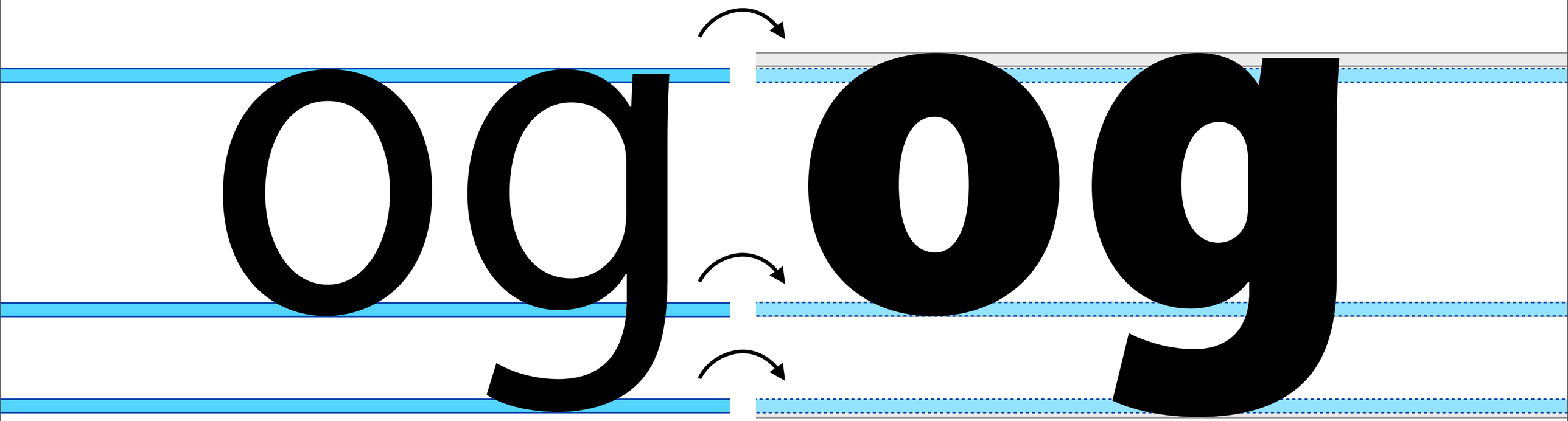
- Zones cannot overlap
- Minimum distance between zones is 1 unit
- Up to 6 top zones (+ baseline zone)
- Up to 5 bottom zones

Adobe



Adobe

FamilyBlues



FamilyOtherBlues

If the difference between a font’s zones and its family’s zones is less than 1 pixel, then the family alignments will be used instead of the font's own alignments.

BlueValues

Top alignment zones

OtherBlues

Bottom alignment zones

FamilyBlues

Top alignment family zones

FamilyOtherBlues

Bottom alignment family zones

Adobe

BlueFuzz

BlueScale

BlueShift

Adobe

BlueFuzz

Adobe

BlueFuzz =1

Adobe

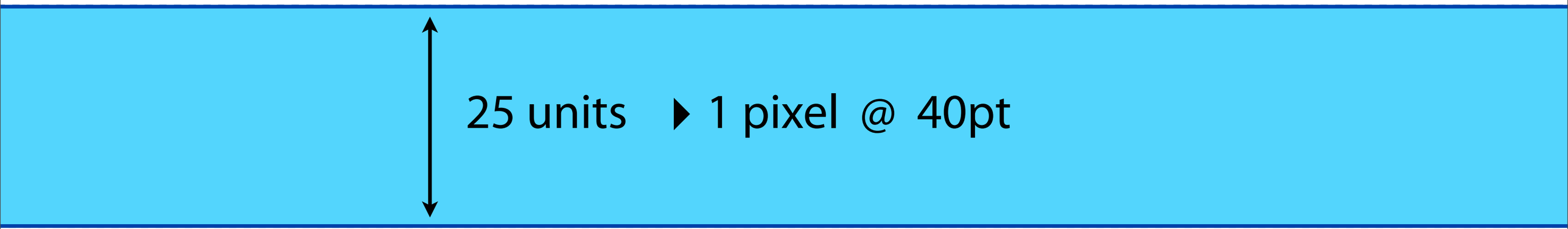
BlueFuzz

Recommended value: ***zero***

BlueScale

Adobe

BlueScale



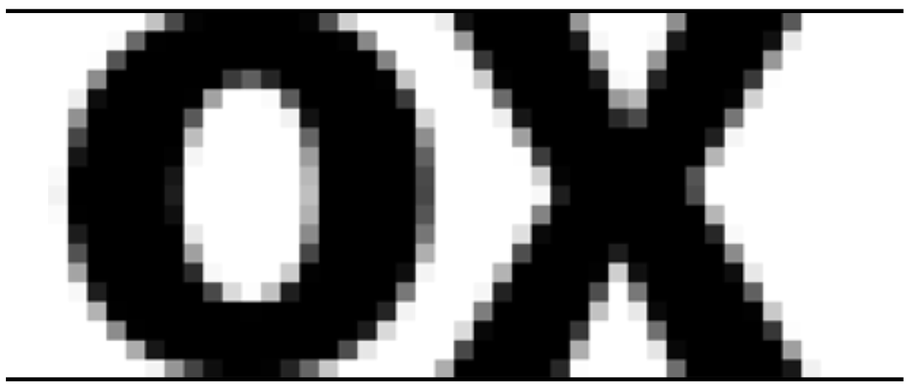
1000 UPM & 72 ppi

Adobe

BlueScale

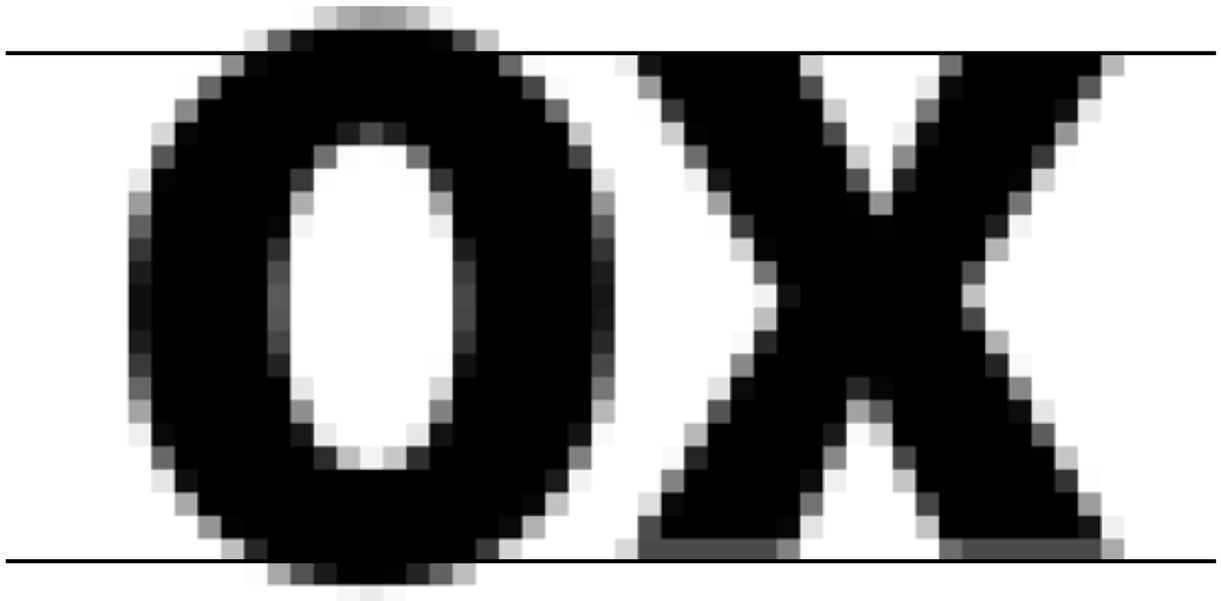
20 pt

25 units ▸ ½ pixel



40 pt

25 units ▸ 1 pixel



1000 UPM & 72 ppi

Adobe

Q: What happens to the overshoot
for the sizes between 20 and 40pt?

A: It will be displayed, or not, depending on the **BlueScale** value.

Adobe

$$\frac{1}{2\times\text{MaxZoneSize}} \leq \text{BlueScale} < \frac{1}{\text{MaxZoneSize}}$$

½ pixel

1 pixel

Adobe

$$\mathrm{MidBlueScale} = \frac{3}{4 \times \mathrm{MaxZoneSize}}$$

Adobe

$$\text{OvershootPointSize} = \frac{\text{BlueScale} \times 72 \times \text{UPM}}{\text{ppi}}$$

Adobe

BlueScale

Determines when the overshoot becomes visible

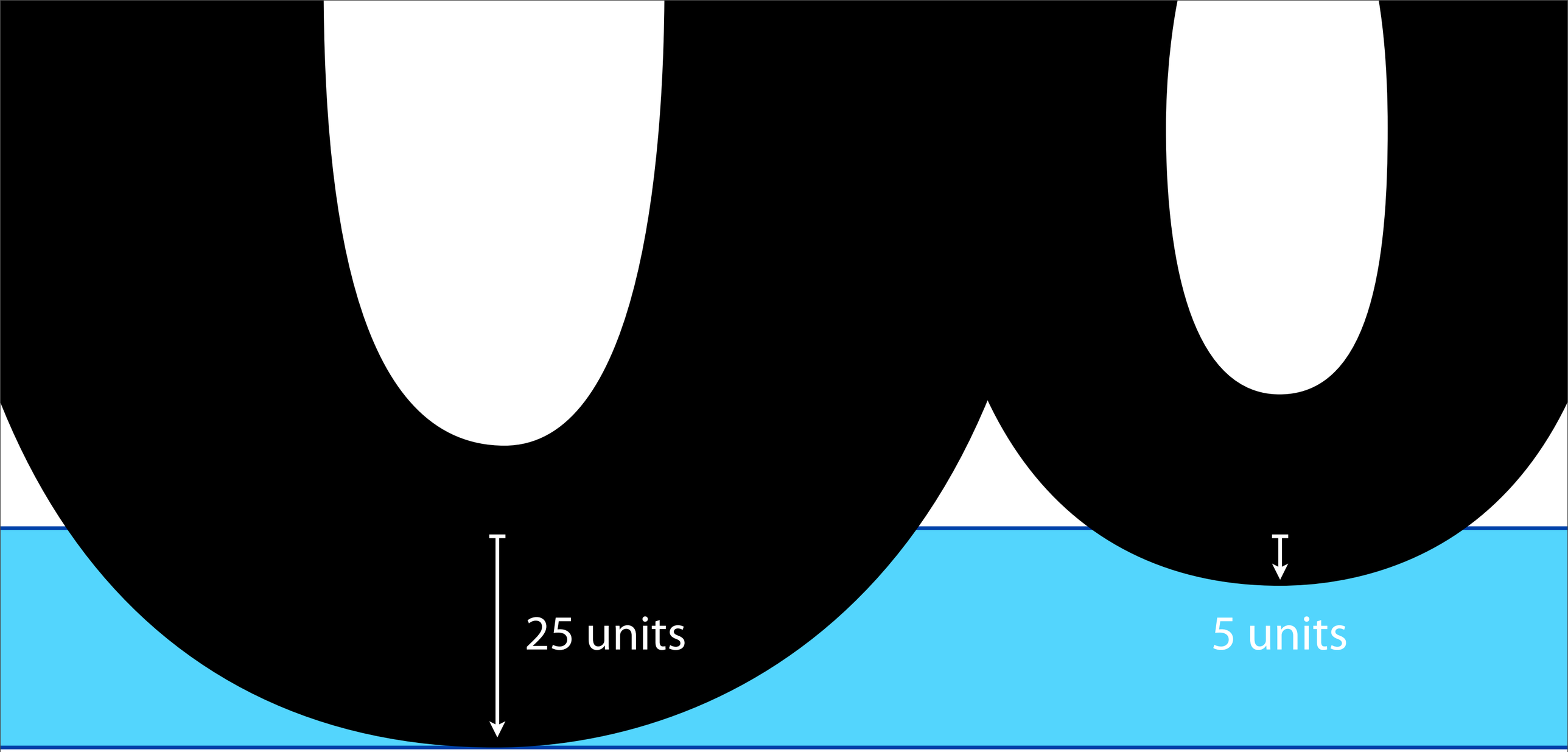
Adobe

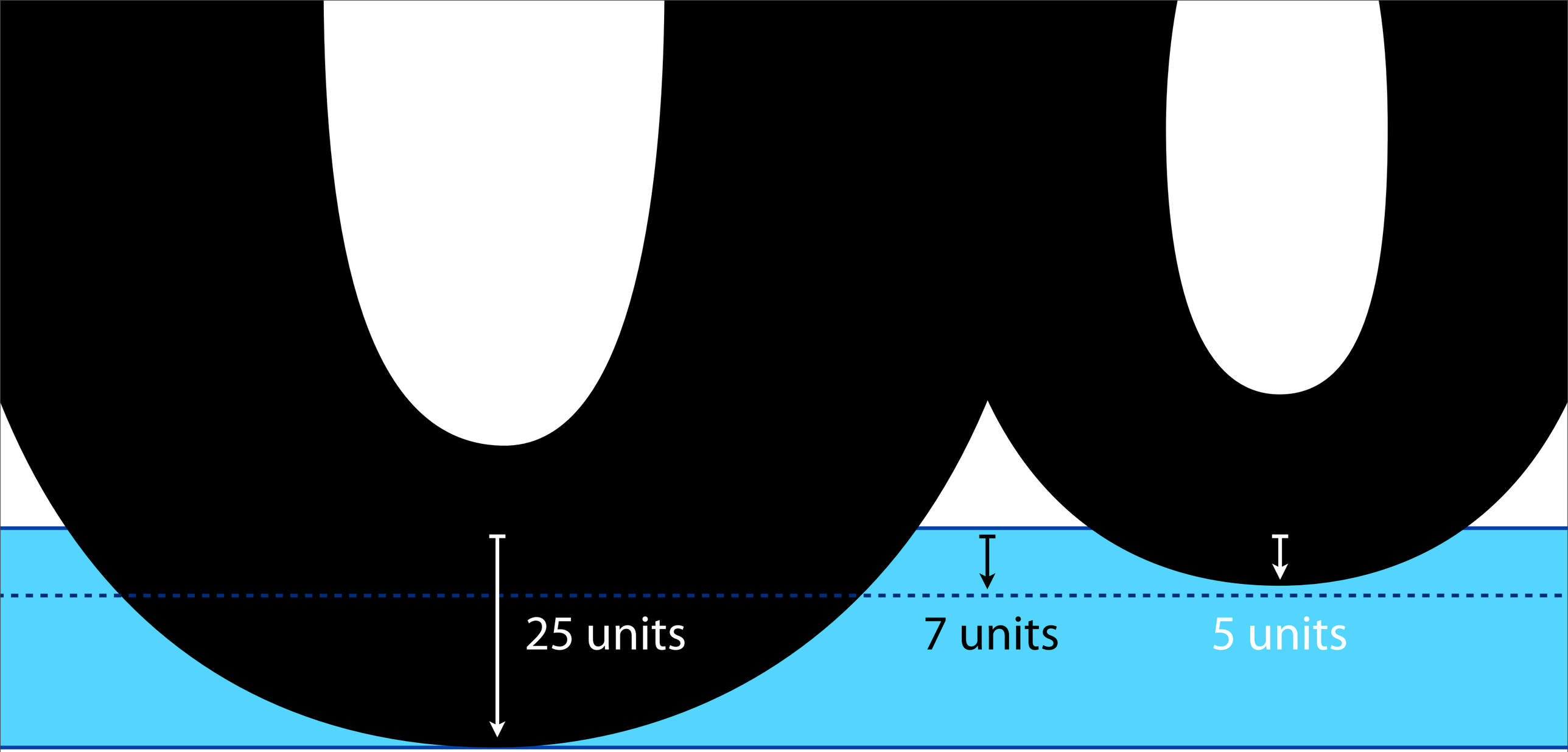
BlueShift

Adobe

Adobe

Adobe


25 units
5 units



BlueShift =7

Adobe

BlueShift =7

Adobe

BlueShift

*Default value: **7** font units*

(1000 UPM font)

Adobe

BlueFuzz

Expands the zones

BlueScale

Determines when the overshoot becomes visible

BlueShift

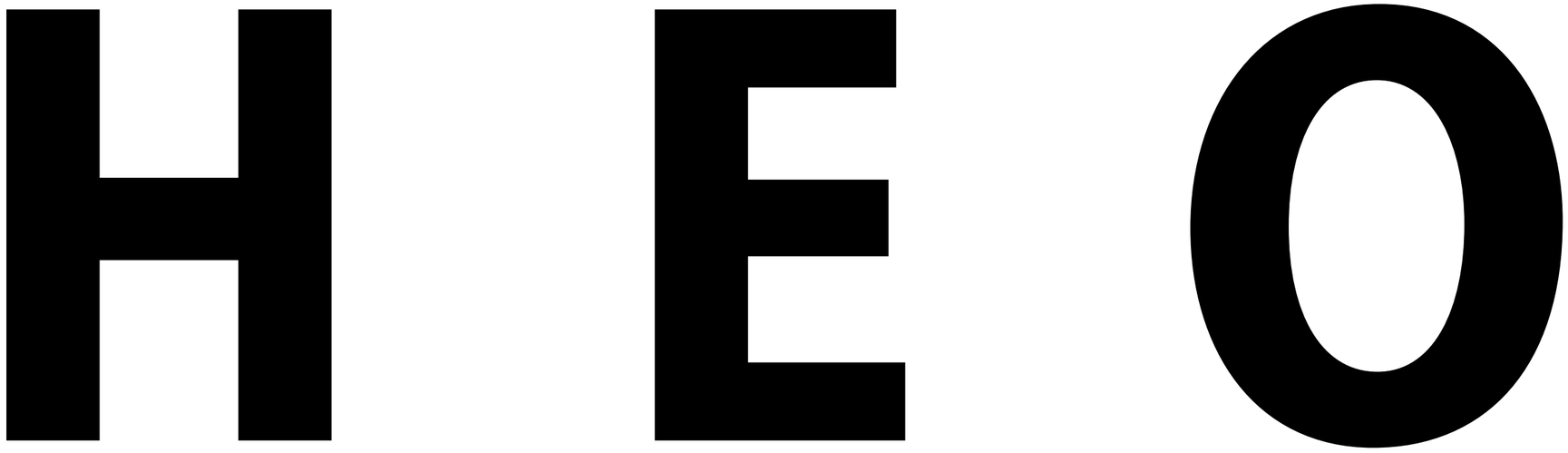
Defines the minimum overshoot distance that can become visible

Adobe

Standard Stems

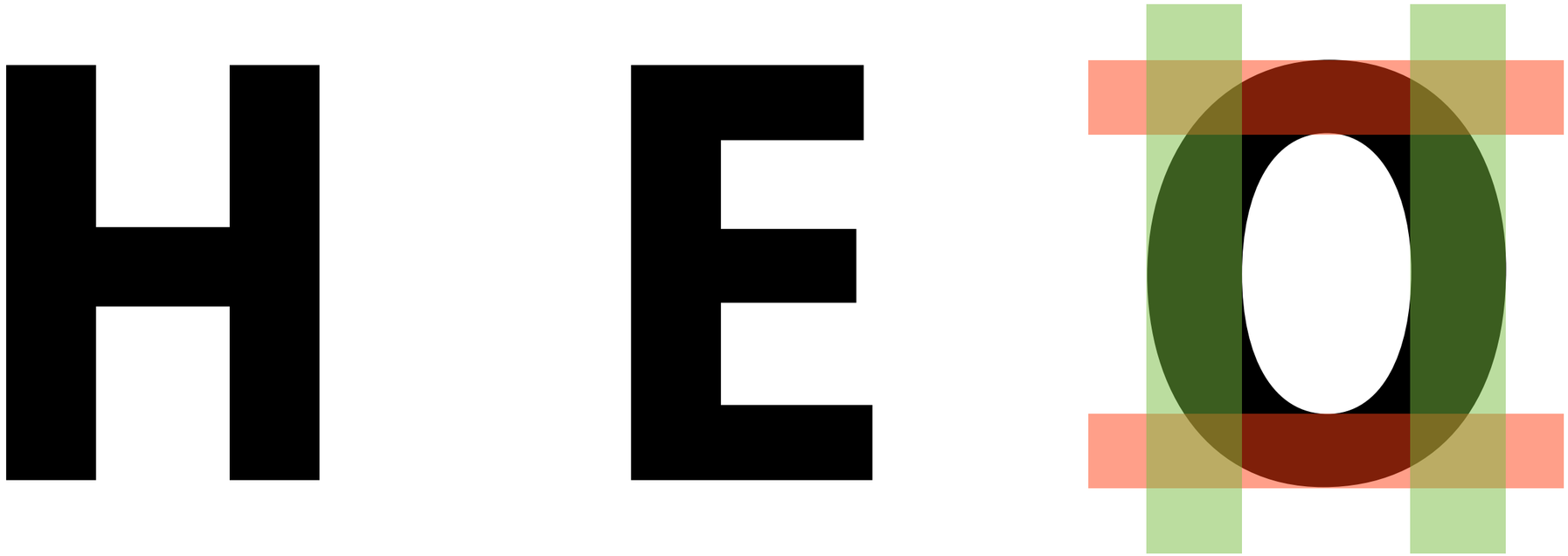
H E

Standard Stems



Adobe

Standard Stems



Adobe

Standard Stems

Standard Stems

Adobe

Standard Stems

Vertical

Horizontal

Adobe

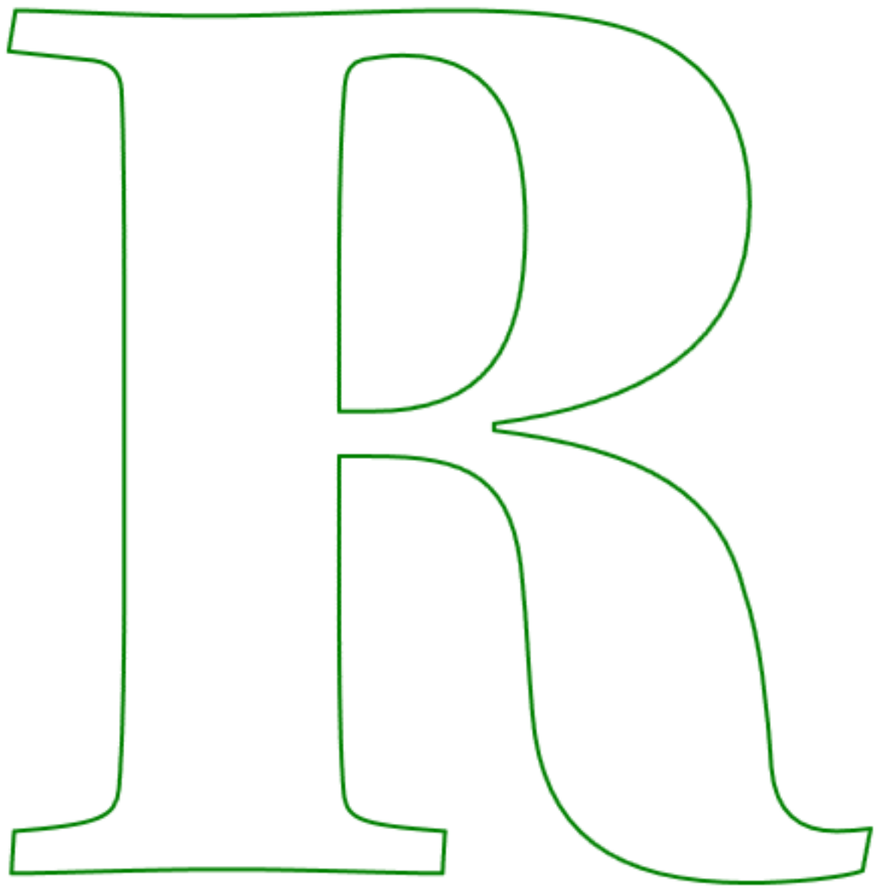
Q: Why are Standard Stems important?

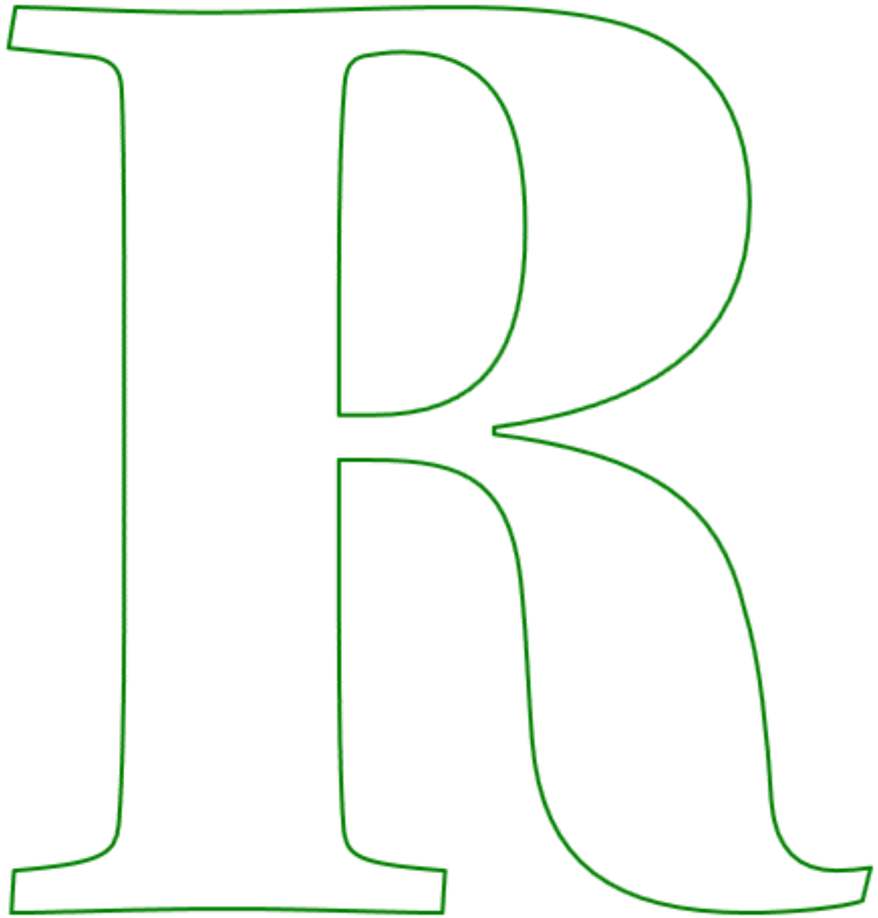
A: Because they tell the rasterizer how heavy the font is.

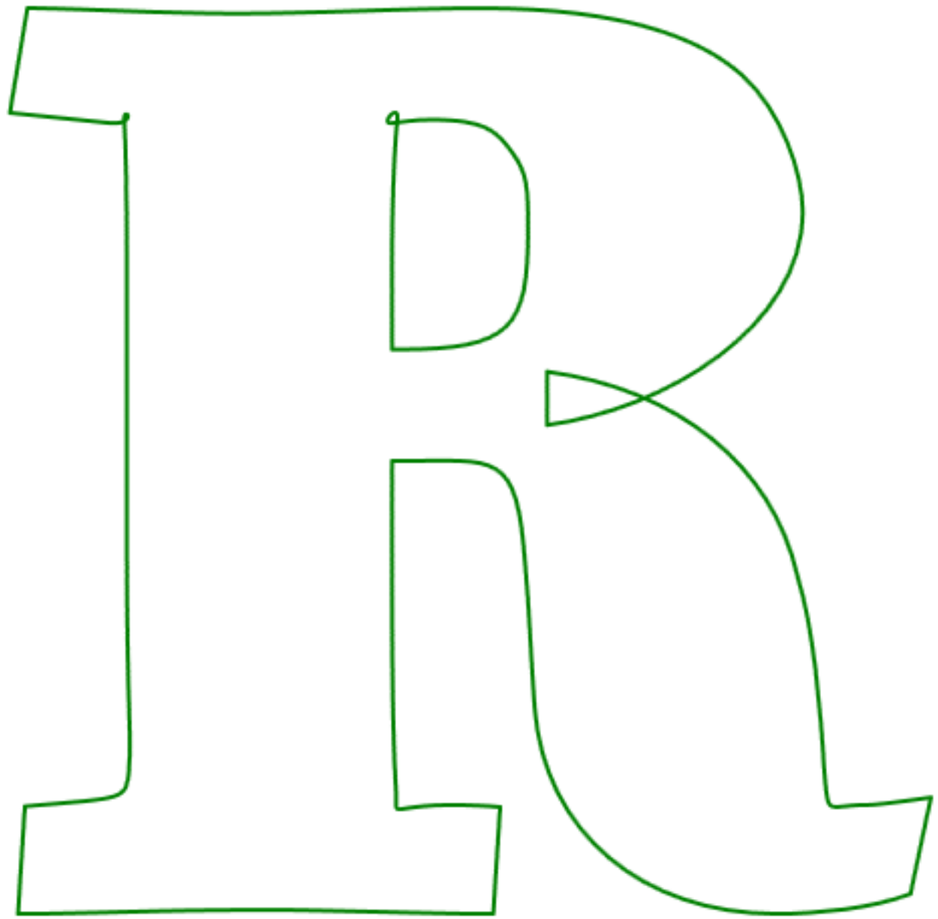
Q: But why does it need to know that?

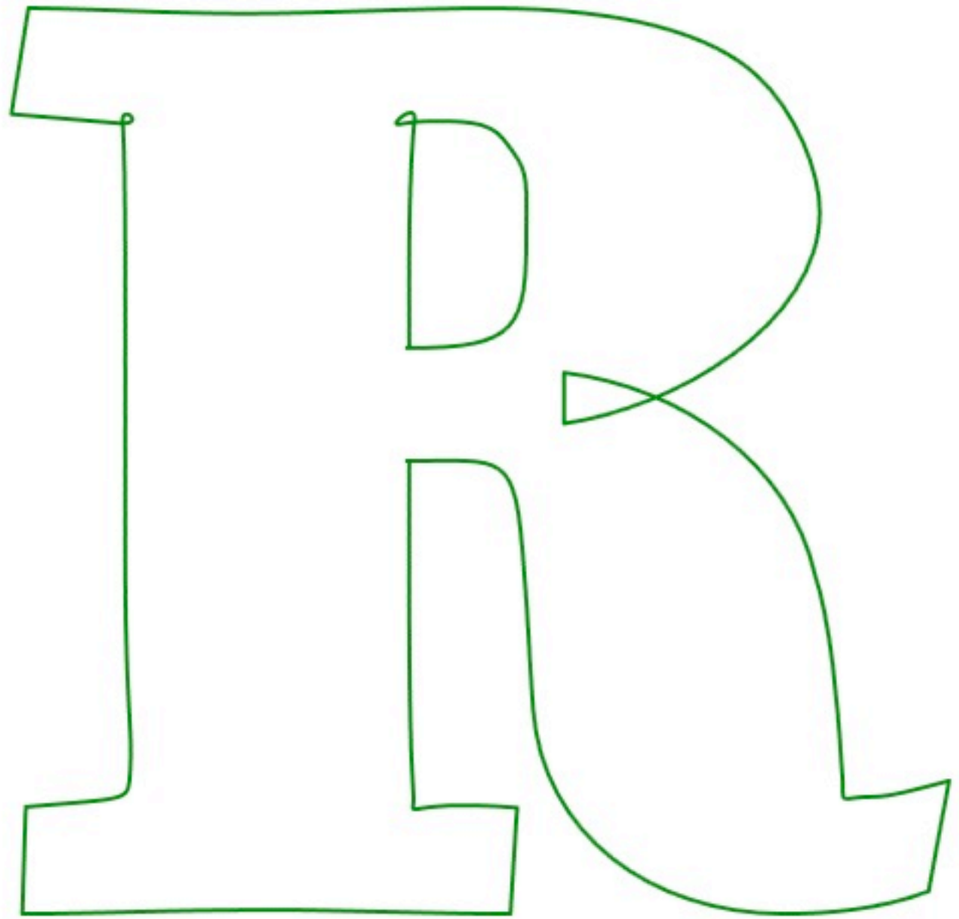
A: Because at small sizes the rasterizer makes the stems darker.

Adobe










QWERTY

QWERTY

And that’s all

Thanks!

Adobe