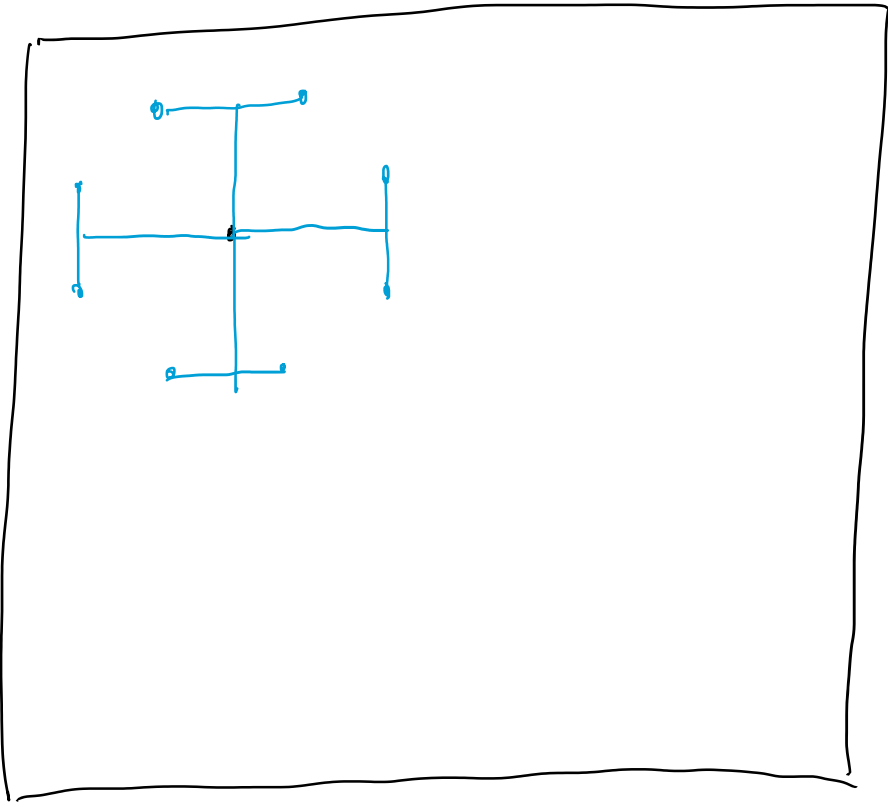
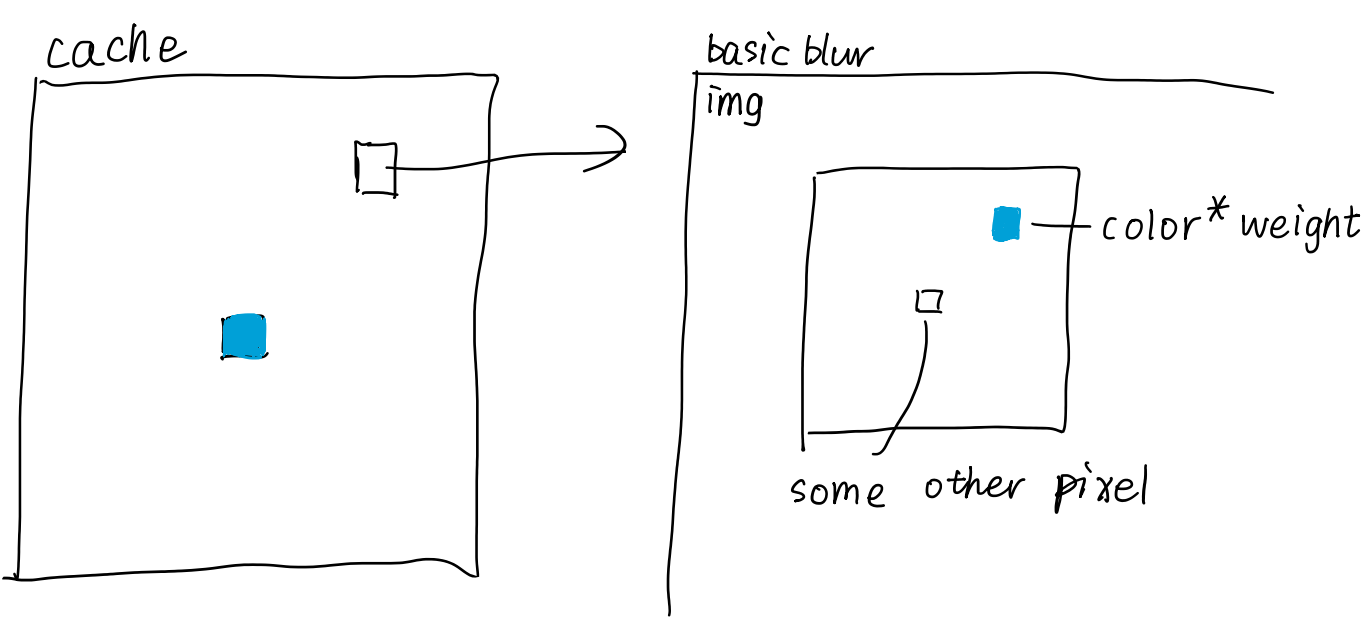


1. Basic Implementation

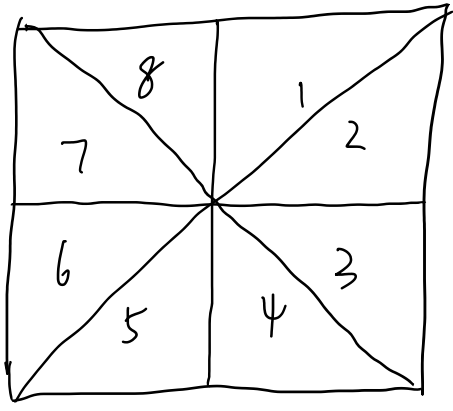


same weight, same color
calculated 8 times

2. We can cache

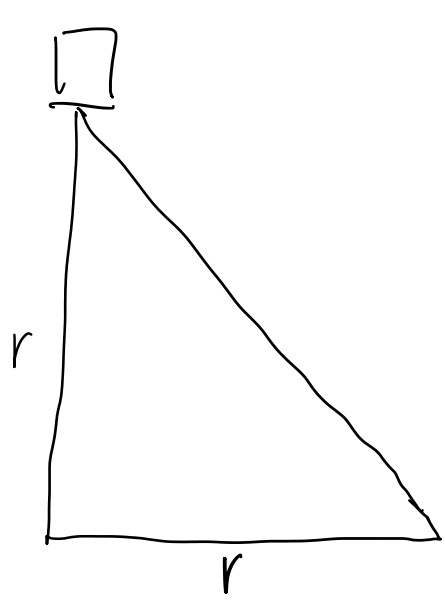


cache

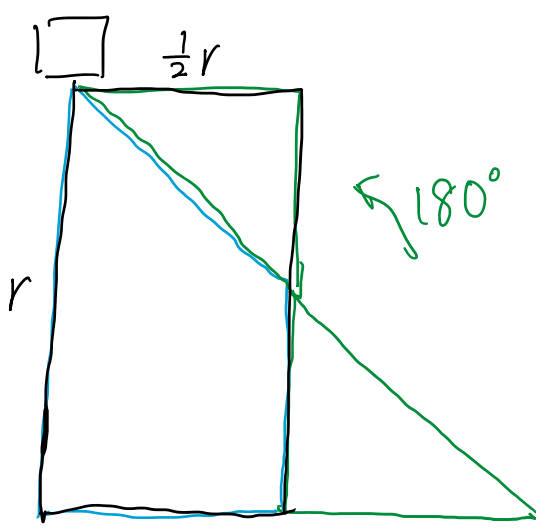


it's the same thing 8x.

So we cache

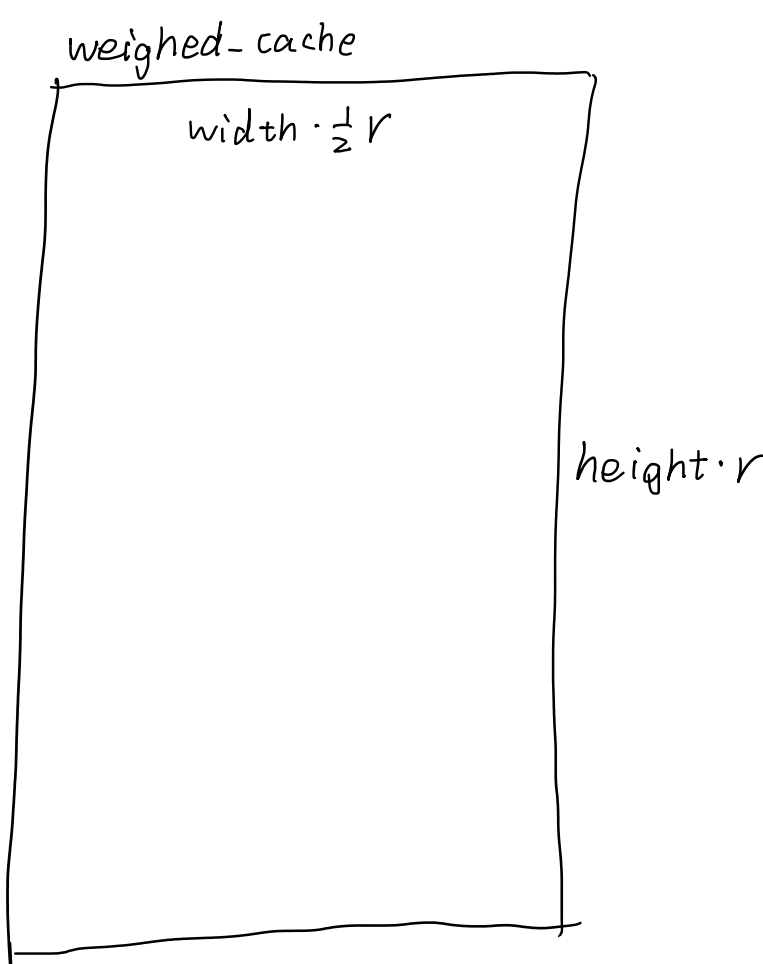


↑ in our mind



↑ stored in texture

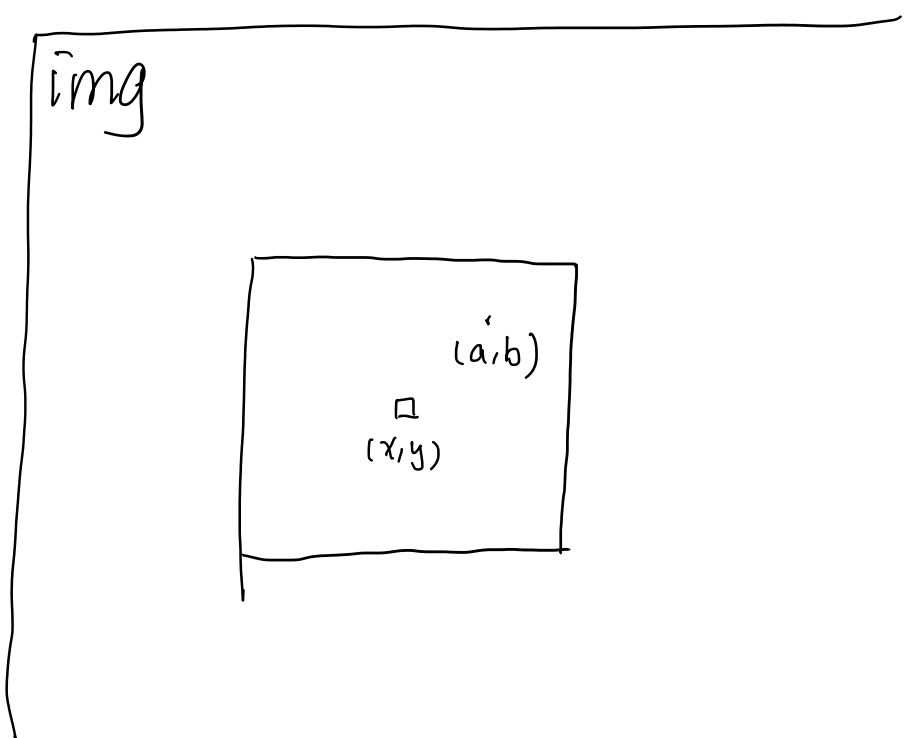
⇒



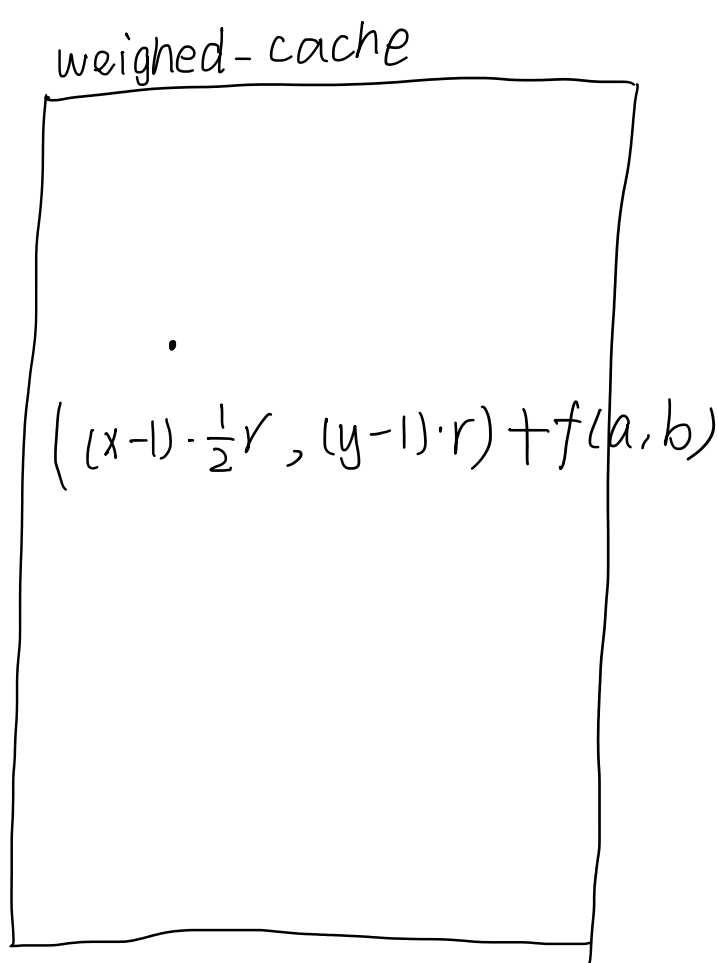
Cache

Compose

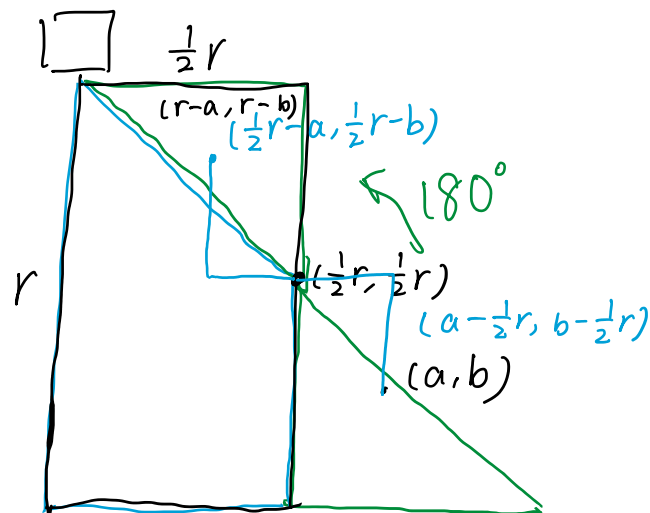
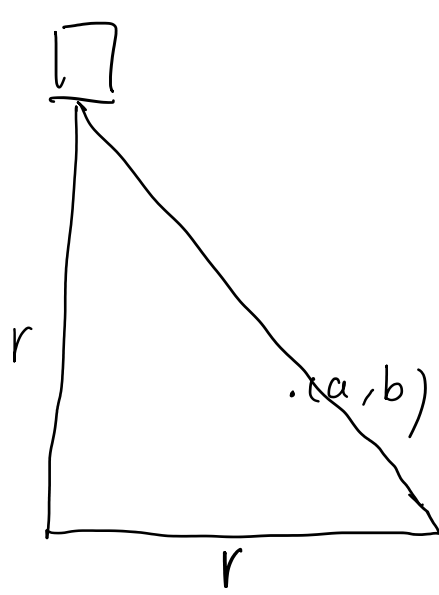
3. When composing (blurring)



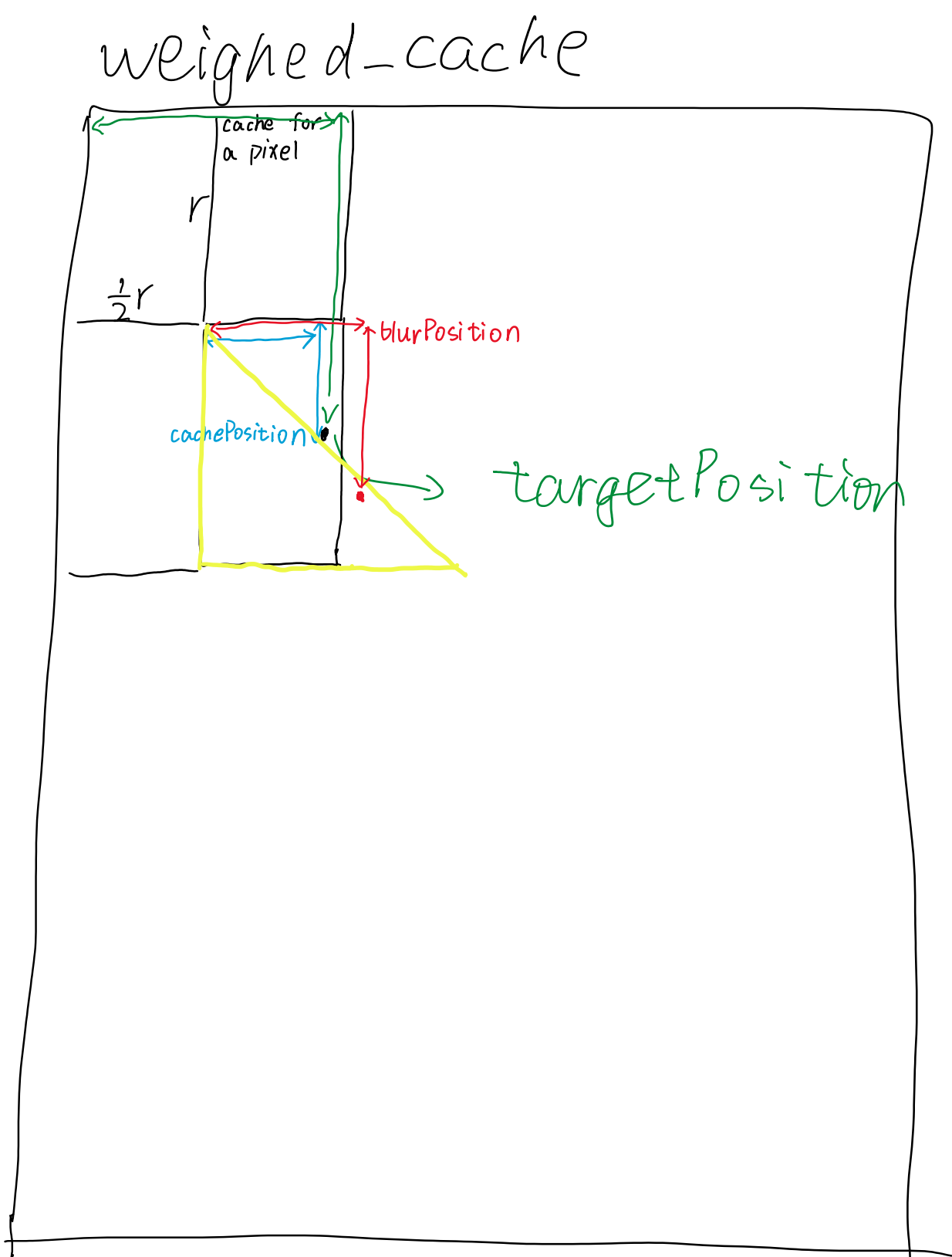
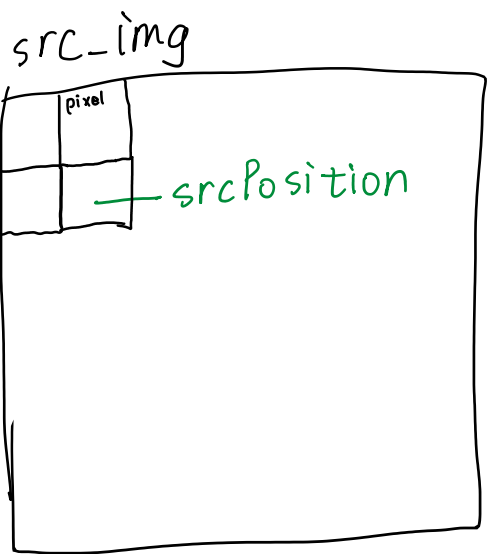
We read



$$f(a,b) = \begin{cases} a \leq \frac{1}{2}r & (a,b) \\ a > \frac{1}{2}r & (r-a, r-b) \end{cases}$$



caching



blur = cache + compose