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1 This algorithm places one image inside another.

Algorithm 1 Collage

Require:

the source image, *image*
the height of the source image, $0 \leq s_h$
the width of the source image, $0 \leq s_w$
the destination image, *canvas*
the height of the canvas image, $0 \leq c_h$
the width of the canvas image, $0 \leq c_w$
the target location, $0 \leq t_x < s_w, 0 \leq t_y < s_h$

```
1: procedure COLLAGE(source, canvas,  $t_x$ ,  $t_y$ )
2:   for  $y=0, h; x=0, w$  do
3:     if  $x \geq t_x$  and  $y < s_w + t_x$  then
4:       if  $(y \geq t_y$  and  $y < s_h + t_y)$  then
5:         Pixel(canvas,  $x, y$ )  $\leftarrow$  Pixel(source,  $x - t_x, y - t_y$ )
6:       end if
7:     end if
8:   end for
9: end procedure
```
