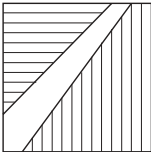


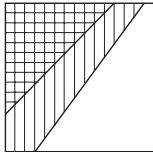
Figura 1. Imagem e canal alfa.



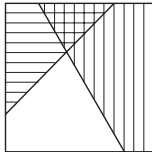
Figura 2. Composição com o canal alfa.



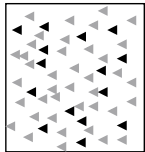
(a)



(b)

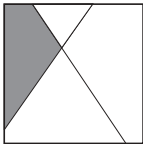


(c)

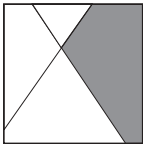


(d)

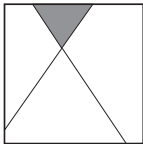
Figura 3. Configurações da geometria do pixel.



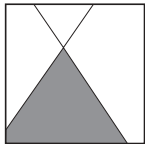
$$f \cap \bar{g}$$



$$\bar{f} \cap g$$

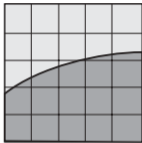
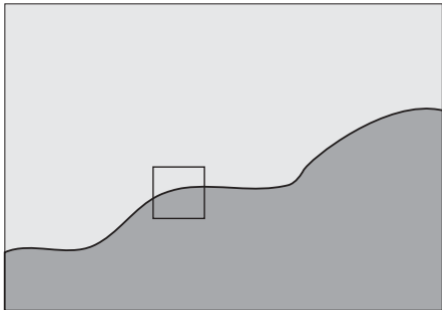


$$f \cap g$$



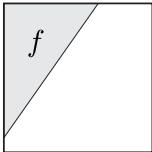
$$\bar{f} \cap \bar{g}$$

Figura 4. Partição definida pelos fragmentos de polígonos.

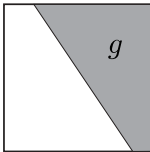


0	0	0	0	0
0	0	0	0	1
0	1	1	1	1
1	1	1	1	1
1	1	1	1	1

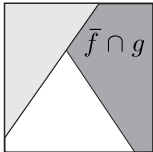
Figura 5. Máscara de bits.



(a)



(b)



(c)

Figura 6. Operação de superposição.

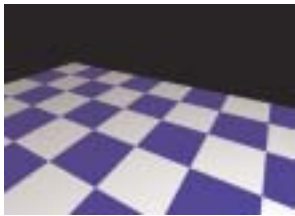


Figura 7. Imagens usadas para ilustrar as operações de composição.

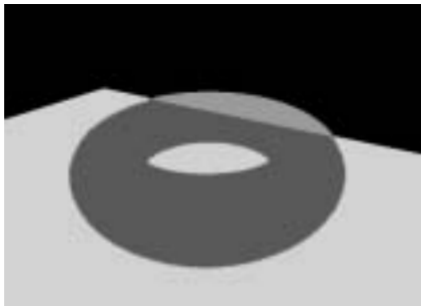


Figura 8. Partição do conjunto suporte das imagens f e g .

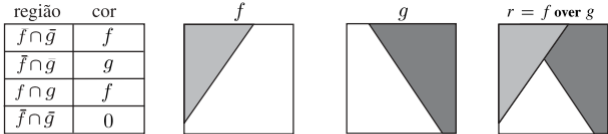


Figura 9. Geometria do pixel do operador **over**.



Figura 10. Operador **over**.

região	cor
$\bar{f} \cap \bar{g}$	0
$\bar{f} \cap g$	0
$f \cap g$	f
$f \cap \bar{g}$	0

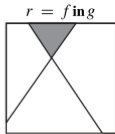
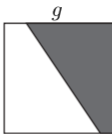
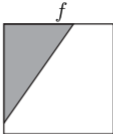


Figura 11. Geometria do pixel do operador **in**.



Figura 12. Operador **in**.

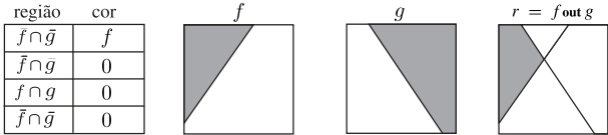


Figura 13. Geometria do pixel do operador **out**.



Figura 14. Operador **out**.



Figura 15. Geometria do pixel do operador **atop**.



Figura 16. Operador **atop**.

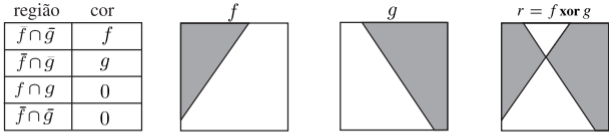


Figura 17. Geometria do pixel do operador **xor**.



Figura 18. Operador **xor**.

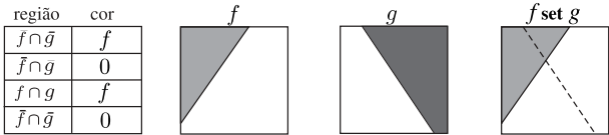


Figura 19. Geometria do pixel do operador **set**.

região

cor

f

0

\bar{f}

0

f



clear(f)

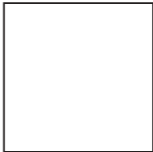


Figura 20. Geometria do pixel do operador **clear**.

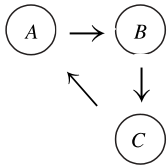
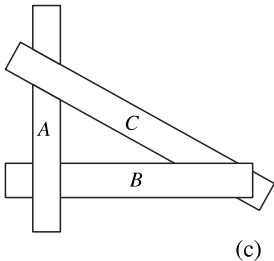
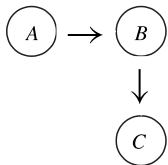
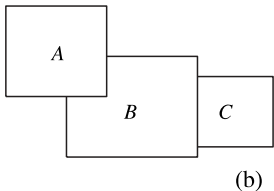
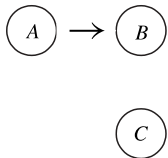
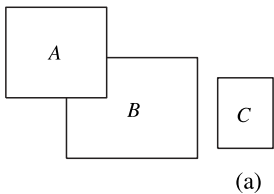
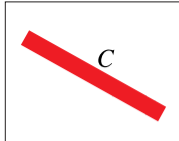
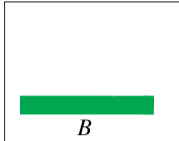


Figura 21. Exemplos de grafos de visibilidade com e sem ciclos.



$A_1 = A \text{ out } C$



$B_1 = B \text{ out } A$



$C_1 = C \text{ out } B$



$A_2 = C \text{ atop } A$



$A_2 + B_1 + C_1 = A_2 \text{ over } B \text{ over } C$

Figura 22. Resolvendo ciclos com operações de composição.