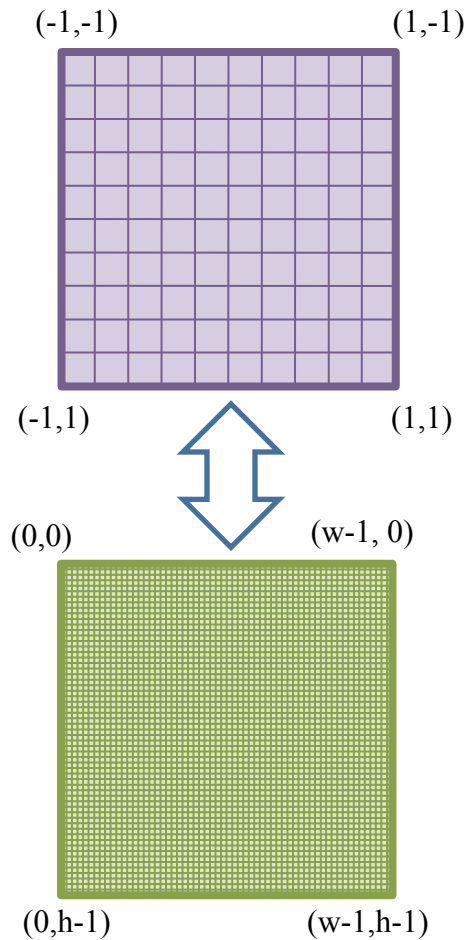


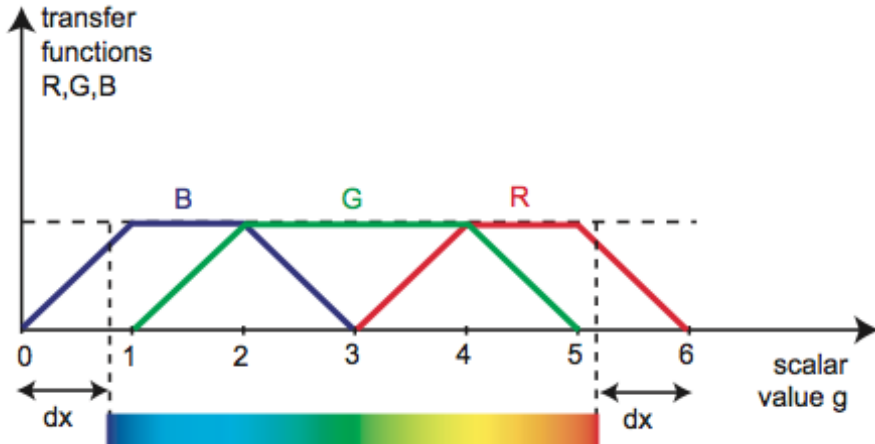
Your Tasks

- We have screen coordinates $(0,0)$ to $(\text{width}, \text{height})$
- We have canvas coordinates $(-1,-1)$ to $(1,1)$
- For each pixel:
 - map pixel coords to canvas coords
 - evaluate function at canvas coords
 - map function value to color
 - store color at that pixel
- Once you do it for the grayscale map try to implement a rainbow colormap



Rainbow Colormap

Translate the C code to JavaScript



```
void c(float f, float& R, float& G, float& B)
{
    const float dx = 0.8;
    f = (f < 0)? 0 : (f > 1)? 1 : f;           //clamp f in [0,1]
    g = (6-2*dx)*f + dx;                       //scale f to [dx, 6-dx]
    R = max(0, (3-fabs(g-4)-fabs(g-5))/2);
    G = max(0, (4-fabs(g-2)-fabs(g-4))/2);
    B = max(0, (3-fabs(g-1)-fabs(g-2))/2);
}
```