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Ray Casting Tutorial — Part 12

May 17, 1996 By fpermadi

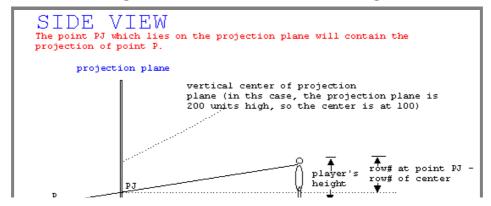
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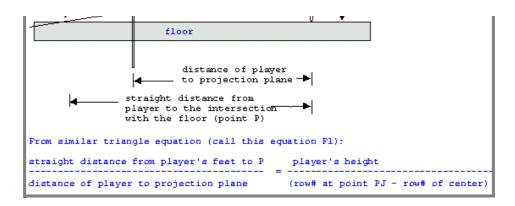
FLOOR CASTING (Continued)

The math behind floor-casting is explained in the Figure 25 (http://permadi.com/tutorial/raycast/rayc12.html#FIGURE25) below.

Figure 25: The math behind floor-casting.

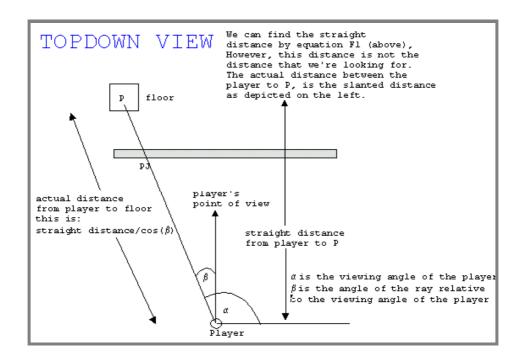


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To reiterate, take a look at the illustration while reading these steps:

- * Start from the bottom of the wall slice.
 - 1. Take the pixel position (you have this value when you did the wall casting).
 - 2. Draw a line (a ray) from the pixel to the viewers eye.
 - 3. Extends the line so that it intersect the floor.
 - 4. The point where the line "intersect" the floor is the point on the texture map that is being hit by the ray.
 - 5. Take the pixel value of that point on the texture map (see the next figure to see how this can be done) and draw it on the screen.
- * Repeat 1-5 until the bottom of the screen is reached.



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