

# BlockGateOR.java

```
package net.minecraft.src;

//Created by MoareAI
//NOT Gate [F=A+B+C]

import java.util.Random;

public class BlockGateOR extends Block
{
    //Class parameters
    protected BlockGateOR(int i, boolean OutputF)
    {
        super(i, 255, Material.circuits);
        field_OutputF = OutputF;
        setBlockBounds(0.0F, 0.0F, 0.0F, 1.0F, 0.125F, 1.0F);
    }

    //Use render types
    public boolean renderAsNormalBlock()
    {
        return false;
    }

    //Block type (preset)
    public int getRenderType()
    {
        return 14;
    }

    public boolean canPlaceBlockAt(World world, int i, int j, int k)
    {
        if(!world.isBlockOpaqueCube(i, j - 1, k))
        {
            return false;
        } else
        {
            return super.canPlaceBlockAt(world, i, j, k);
        }
    }

    public boolean canBlockStay(World world, int i, int j, int k)
    {
        if(!world.isBlockOpaqueCube(i, j - 1, k))
        {
            return false;
        } else
        {
            return super.canBlockStay(world, i, j, k);
        }
    }

    //Updates on/off
    public void updateTick(World world, int i, int j, int k, Random random)
    {
        int l = world.getBlockMetadata(i, j, k);
        boolean InputA = func_InputA(world, i, j, k, l);
        boolean InputB = func_InputB(world, i, j, k, l);
        boolean InputC = func_InputC(world, i, j, k, l);
        if(InputA || InputB || InputC)
        {
            world.setBlockAndMetadataWithNotify(i, j, k,
mod_LogicalGates.GateOROn.blockID, l);
        } else
    }
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    {
        world.setBlockAndMetadataWithNotify(i, j, k,
mod_LogicalGates.GateOROff.blockID, 1);
    }
}

//Update block
public void onNeighborBlockChange(World world, int i, int j, int k, int l)
{
    if(!canBlockStay(world, i, j, k))
    {
        dropBlockAsItem(world, i, j, k, world.getBlockMetadata(i, j, k));
        world.setBlockWithNotify(i, j, k, 0);
        return;
    }
    world.scheduleBlockUpdate(i, j, k, blockID, 0);
}

//Signal out
public boolean isPoweringTo(IBlockAccess iblockaccess, int i, int j, int k, int l)
{
    if(!field_OutputF)
    {
        return false;
    }
    int i1 = iblockaccess.getBlockMetadata(i, j, k) & 3;
    if((i1 == 0) && l == 3)
    {
        return true;
    }
    if(i1 == 1 && l == 4)
    {
        return true;
    }
    if(i1 == 2 && l == 2)
    {
        return true;
    }
    return i1 == 3 && l == 5;
}

//Signal in Back
//Left
private boolean func_InputA(World world, int i, int j, int k, int l)
{
    int i1 = l & 3;
    switch(i1)
    {
        case 0: // '\0'
            return world.isBlockIndirectlyProvidingPowerTo(i - 1, j, k, 4);

        case 2: // '\002'
            return world.isBlockIndirectlyProvidingPowerTo(i + 1, j, k, 5);

        case 3: // '\003'
            return world.isBlockIndirectlyProvidingPowerTo(i, j, k + 1, 3);

        case 1: // '\001'
            return world.isBlockIndirectlyProvidingPowerTo(i, j, k - 1, 2);
    }
    return false;
}

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//Back
private boolean func_InputB(World world, int i, int j, int k, int l)
{
    int i1 = l & 3;
    switch(i1)
    {
        case 0: // '\0'
            return world.isBlockIndirectlyProvidingPowerTo(i, j, k + 1, 3);

        case 2: // '\002'
            return world.isBlockIndirectlyProvidingPowerTo(i, j, k - 1, 2);

        case 3: // '\003'
            return world.isBlockIndirectlyProvidingPowerTo(i + 1, j, k, 5);

        case 1: // '\001'
            return world.isBlockIndirectlyProvidingPowerTo(i - 1, j, k, 4);
    }
    return false;
}

//Right
private boolean func_InputC(World world, int i, int j, int k, int l)
{
    int i1 = l & 3;
    switch(i1)
    {
        case 0: // '\0'
            return world.isBlockIndirectlyProvidingPowerTo(i + 1, j, k, 5);

        case 2: // '\002'
            return world.isBlockIndirectlyProvidingPowerTo(i - 1, j, k, 4);

        case 3: // '\003'
            return world.isBlockIndirectlyProvidingPowerTo(i, j, k - 1, 2);

        case 1: // '\001'
            return world.isBlockIndirectlyProvidingPowerTo(i, j, k + 1, 3);
    }
    return false;
}

public void onBlockPlacedBy(World world, int i, int j, int k, EntityLiving
entityliving)
{
    int l = ((MathHelper.floor_double((double)((entityliving.rotationYaw * 4F) /
360F) + 0.5D) & 3) + 2) % 4;
    world.setBlockMetadataWithNotify(i, j, k, l);
    boolean InputB = func_InputB(world, i, j, k, l);
    if(InputB)
    {
        world.scheduleBlockUpdate(i, j, k, blockID, 1);
    }
}

public void onBlockAdded(World world, int i, int j, int k)
{
    world.notifyBlocksOfNeighborChange(i + 1, j, k, blockID);
    world.notifyBlocksOfNeighborChange(i - 1, j, k, blockID);
    world.notifyBlocksOfNeighborChange(i, j, k + 1, blockID);
    world.notifyBlocksOfNeighborChange(i, j, k - 1, blockID);
    world.notifyBlocksOfNeighborChange(i, j - 1, k, blockID);
    world.notifyBlocksOfNeighborChange(i, j + 1, k, blockID);
}

```



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```
private final boolean field_OutputF;  
}
```