

Minecraft Modding - Day 7

Rain Water

Purpose: To place water at the feet of entities when it is raining.

<u>Steps</u>

1. In the package org.devoxx4kids.forge.mods, make a new class called RainWater and replace its code with the code shown:

```
package org.devoxx4kids.forge.mods;
import net.minecraft.entity.Entity;
import net.minecraft.init.Blocks;
import net.minecraft.util.BlockPos;
import net.minecraft.world.World;
import
net.minecraftforge.event.entity.living.LivingEvent.LivingUpdateEvent;
import net.minecraftforge.fml.common.eventhandler.SubscribeEvent;
public class RainWater {
   @SubscribeEvent
   public void makeWater(LivingUpdateEvent event) {
         Entity entity = event.entity;
         World world = entity.worldObj;
         int x = (int) Math.floor(entity.posX);
         int y = (int) Math.floor(entity.posY);
         int z = (int) Math.floor(entity.posZ);
         if (!entity.worldObj.isRaining()) {
               return;
         }
         for (int i = y; i < 256; i++) {
               if (world.getBlockState(new BlockPos(x, i, z)) !=
Blocks.air.getBlockState().getBaseState()) {
                     return;
               }
         }
         if (world.isRemote | | !world.qetBlockState(new BlockPos(x, y - 1,
z)).getBlock().isNormalCube()) {
               return;
         }
```



```
world.setBlockState(new BlockPos(x, y, z),
Blocks.water.getBlockState().getBaseState());
    }
}
```

2. Register the RainWater class by adding the following code in MainMod:

```
MinecraftForge.EVENT_BUS.register(new RainWater());
```

Gameplay

- 1. Use the command "/weather rain" to make the weather rainy
- 2. Start moving, and water should be placed wherever you go, but it will disappear quickly

TNT Thunder

Add the following method to RainWater class:

```
@SubscribeEvent
public void makeTNT(LivingUpdateEvent event) {
      Entity entity = event.entity;
      World world = entity.worldObj;
      int x = (int) Math.floor(entity.posX);
      int y = (int) Math.floor(entity.posY);
      int z = (int) Math.floor(entity.posZ);
      if (!world.isThundering()) {
            return;
      }
      for (int i = y; i < 256; i++) {
            if (world.getBlockState(new BlockPos(x, i, z)) != Blocks.air
                        .getBlockState().getBaseState()) {
                  return;
            }
      }
      if (world.isRemote
                  || !world.getBlockState(new BlockPos(x, y - 1,
z)).getBlock()
                               .isNormalCube()) {
```



```
return;
}

Random random = new Random();

if (random.nextInt(40) != 1) {
    return;
}

EntityTNTPrimed tnt = new EntityTNTPrimed(world);
  tnt.setLocationAndAngles(entity.posX, entity.posY, entity.posZ, 0, 0);
  tnt.fuse = 80;
  world.spawnEntityInWorld(tnt);
}
```

Gameplay

- 1. Use the command "/weather thunder" to make the weather stormy
- 2. Spawn a mob in the world, watch for TNT to be placed wherever the mob goes. The TNT will blow up after 4 seconds.