

Minecraft Modding - Day 8

Wall Climber

Purpose: To allow players to climb up straight walls without any blocks or other help.

Steps

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

```
package org.devoxx4kids.forge.mods;
import net.minecraft.entity.player.EntityPlayer;
import net.minecraftforge.event.entity.living.LivingFallEvent;
import net.minecraftforge.fml.common.eventhandler.SubscribeEvent;
import net.minecraftforge.fml.common.gameevent.TickEvent.PlayerTickEvent;
public class WallClimber {
   @SubscribeEvent
   public void climbWall(PlayerTickEvent event) {
         EntityPlayer player = event.player;
         if (!player.isCollidedHorizontally) {
               return;
         }
         if (player.isBlocking()) {
               player.motionY = -0.5;
         } else if (player.isSneaking()) {
               player.motionY = 0;
         } else {
               player.motionY = 0.5;
   }
   @SubscribeEvent
   public void negateFallDamage(LivingFallEvent event) {
         if (!(event.entity instanceof EntityPlayer)) {
               return;
         }
```



```
EntityPlayer player = (EntityPlayer) event.entity;
    event.setCanceled(true);
}
```

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

```
FMLCommonHandler.instance().bus().register(new WallClimber());
MinecraftForge.EVENT_BUS.register(new WallClimber());
```

Gameplay

- 1. Build a wall straight up with any solid block you want
- 2. Run into that wall and you should start going up
- 3. Block with a sword to go down instead of up
- 4. Hold Shift to stop moving up or down

Arrow Shotgun

Purpose: To turn a stick into a shotgun that fires 20 flaming arrows on right click.

Steps

 In your package, create a new class called ArrowShotgun and replace its contents with the following:

```
package org.devoxx4kids.forge.mods;
import java.util.Random;
import net.minecraft.entity.player.EntityPlayer;
import net.minecraft.entity.projectile.EntityArrow;
import net.minecraft.init.Items;
import net.minecraft.world.World;
import net.minecraftforge.event.entity.player.PlayerInteractEvent;
import net.minecraftforge.event.entity.player.PlayerInteractEvent.Action;
import net.minecraftforge.fml.common.eventhandler.SubscribeEvent;
```



```
public class ArrowShotgun {
 private final int arrows = 20;
 @SubscribeEvent
 public void shootArrows(PlayerInteractEvent event) {
       EntityPlayer player = event.entityPlayer;
       World world = event.world;
       if (player.getHeldItem() == null) {
             return;
       }
       if ((event.action != Action.RIGHT_CLICK_AIR && event.action !=
Action.RIGHT_CLICK_BLOCK)
                    | | player.getHeldItem().getItem() != Items.stick) {
             return;
       }
       Random random = new Random();
       for (int i = 0; i < arrows; i++) {
             EntityArrow arrow = new EntityArrow(world, player, 2);
             arrow.posX += arrow.motionX + random.nextFloat() - 0.5F;
             arrow.posY += arrow.motionY + random.nextFloat() - 0.5F;
             arrow.posZ += arrow.motionZ + random.nextFloat() - 0.5F;
             arrow.canBePickedUp = 0;
             arrow.setFire(10000);
             if (!world.isRemote) {
                   world.spawnEntityInWorld(arrow);
             }
       }
      }
}
```

2. Register it using the line shown:

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

Gameplay

- 1. Get a Stick item from your inventory
- 2. Right click anywhere to shoot arrows