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```
package com.blindtigergames.werescrewed.entity.builders;
import com.badlogic.gdx.graphics.Texture;
import com.badlogic.gdx.math.Rectangle;
import com.badlogic.gdx.math.Vector2;
import com.badlogic.gdx.physics.box2d.BodyDef.BodyType;
import com.badlogic.gdx.physics.box2d.World;
import com.badlogic.gdx.utils.Array;
import com.blindtigergames.werescrewed.WereScrewedGame;
import com.blindtigergames.werescrewed.entity.PolySprite;
import com.blindtigergames.werescrewed.entity.RootSkeleton;
import com.blindtigergames.werescrewed.entity.Skeleton;
import com.blindtigergames.werescrewed.entity.action.FadeSkeletonAction;
import com.blindtigergames.werescrewed.eventTrigger.EventTrigger;
public class SkeletonBuilder extends GenericEntityBuilder > {
    protected Array< Vector2 > polyVertsFG, polyVertsBG, invisibleVerts;
    protected float density;
    private BodyType bodyType;
    protected boolean onBGverts;
    protected Texture texBackground, texForeground, texBody;
    protected boolean hasDeactivateTrigger;
    protected boolean fadeFgDecals;
    protected boolean setChildSkeletonsToSleep = false;
    protected boolean useBoundingRect = false;
    protected Rectangle boundingRect;
    protected boolean lessExtraBorder = false;
    public SkeletonBuilder( World world ) {
        super( );
        reset();
        super.world = world;
    }
    @Override
    public SkeletonBuilder reset( ) {
        super.reset( );
       this.polyVertsFG = null;
        this.polyVertsBG = null;
        this.bodyType = BodyType.KinematicBody;
        this.density = 1.0f;
        this.onBGverts = true;
```

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```
// background textures
    this.texBackground = WereScrewedGame.manager.getLevelRobotBGTex( );
    this.texForeground = WereScrewedGame.manager.getLevelRobotFGTex( );
    this.texBody = null;
    this.hasDeactivateTrigger = false;
    this.fadeFgDecals = false;
   this.invisibleVerts = null;
    this.setChildSkeletonsToSleep = false;
    return this;
}
/**
 * All following verts added will set to the background polysprite of this
 * skeleton This is true by default
 * @return
 * /
public SkeletonBuilder bg( ) {
    this.onBGverts = true;
    return this;
}
public SkeletonBuilder lessExtraBorder( ) {
    this.lessExtraBorder = true;
    return this;
}
/**
 * All following verts will apply to the foreground polysprite
* @return
public SkeletonBuilder fg( ) {
    this.onBGverts = false;
    return this;
}
public SkeletonBuilder hasDeactiveTrigger( boolean hasTrigger ) {
    this.hasDeactivateTrigger = hasTrigger;
    return this;
}
public SkeletonBuilder texForeground( Texture fgTex ) {
    this.texForeground = fgTex;
    return this;
```

```
}
    public SkeletonBuilder texBackground( Texture bgTex ) {
        this.texBackground = bgTex;
        return this;
    }
    public SkeletonBuilder texBody( Texture bodyTex ) {
        this.texBody = bodyTex;
        return this;
    }
    public SkeletonBuilder setUseBoundingRect( boolean setting ) {
        useBoundingRect = setting;
        return this;
    }
    public SkeletonBuilder buildRectangle( float x, float y, float width, float
height ) {
        boundingRect = new Rectangle( x, y, width, height);
        return this;
    }
     * Set the entire vertice list for the polySprite on the next built skeleton
     * @param verts
                  array of verts in pixels.
     * @return
     */
    public SkeletonBuilder setVerts( Array< Vector2 > verts ) {
        if ( onBGverts ) {
            this.polyVertsBG = verts;
        } else {
            this.polyVertsFG = verts;
        return this;
    }
    public SkeletonBuilder invisibleVerts( Array< Vector2 > verts ) {
        this.invisibleVerts = verts;
        return this;
    }
    public SkeletonBuilder setChildSkelsToSleep ( boolean setting ) {
```

```
setChildSkeletonsToSleep = setting;
    return this;
}
/**
 * Add a vertice to the polySprite for this skeleton
 * @param vert
             , (x,y) in pixels
 * @return
 * /
public SkeletonBuilder vert( Vector2 vert ) {
    Array< Vector2 > vertList;
    if ( onBGverts ) {
        if ( polyVertsBG == null ) {
            polyVertsBG = new Array< Vector2 >( );
        }
        vertList = polyVertsBG;
    } else {
        if ( polyVertsFG == null ) {
            polyVertsFG = new Array< Vector2 >( );
        }
        vertList = polyVertsFG;
    }
   vertList.add( vert );
    return this;
}
/**
 * Add a vertice to the polySprite for this skeleton
 * @param x
              x-position in pixels
 * @param y
              y-position in pixels.
 * @return
public SkeletonBuilder vert( float x, float y ) {
    return this.vert( new Vector2( x, y ) );
}
public SkeletonBuilder dynamic( boolean d ) {
    if (d) {
        return this.dynamic( );
   }
```

```
return this.kinematic( );
}
public SkeletonBuilder dynamic( ) {
    bodyType = BodyType.DynamicBody;
    return this;
}
public SkeletonBuilder staticBody( ) {
    bodyType = BodyType.StaticBody;
    return this;
}
public SkeletonBuilder kinematic( ) {
    bodyType = BodyType.KinematicBody;
    return this;
}
public SkeletonBuilder fadeFgDecals( boolean applyFadeToFgDecals ) {
    this.fadeFgDecals = applyFadeToFgDecals;
    return this;
}
 * @param density
              - float used for density, default is 1.0f
 * @return SkeletonBuilder
 * /
public SkeletonBuilder density( float density ) {
    this.density = density;
    return this;
}
/**
 * Builds a friggin root skeleton, what do you want jeese.
 * /
public RootSkeleton buildRoot( ) {
    return new RootSkeleton( "root", new Vector2( ), null, world );
}
@Override
public Skeleton build( ) {
```

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```
Skeleton out = new Skeleton( name, pos, null, super.world, bodyType );
out.setChildSkeletonsToSleepProperty( setChildSkeletonsToSleep );
out.setUseBoundingRect( useBoundingRect );
out.boundingRect = this.boundingRect;
if ( invisibleVerts != null ) {
    if ( polyVertsFG != null && texForeground != null ) {
        out.fgSprite = new PolySprite( texForeground, polyVertsFG );
    }
}
if ( polyVertsBG != null && texBackground != null ) {
    out.bgSprite = new PolySprite( texBackground, polyVertsBG );
}
// out.body.setType( bodyType );
out.setDensity( this.density );
if ( invisibleVerts != null ) {
    EventTriggerBuilder etb = new EventTriggerBuilder( world );
    etb.name( name + "-invisible-fader" ).setVerts( invisibleVerts );
    if(this.lessExtraBorder)
        etb.extraBorder( 256f );
    else
        etb.extraBorder( 300f );
    EventTrigger et = etb.position( pos.add( 0, 0 ) ).addEntity( out )
            .beginAction( new FadeSkeletonAction( true ) )
            .endAction( new FadeSkeletonAction( false ) ).repeatable( )
            .twoPlayersToDeactivate( ).build( );
    out.addEventTrigger( et );
} else {
    // PIZZA
    if ( hasDeactivateTrigger && polyVertsBG != null ) {
        EventTriggerBuilder etb = new EventTriggerBuilder( world );
        etb.name( name + "-activator" ).setVerts( polyVertsBG );
    if(this.lessExtraBorder)
        etb.extraBorder( 128f );
    else
        etb.extraBorder( 300f );
    EventTrigger et = etb.position( pos ).addEntity( out )
```

```
.beginAction( new FadeSkeletonAction( true ) )
                    .endAction( new FadeSkeletonAction( false ) )
                    .repeatable( ).twoPlayersToDeactivate( ).build( );
            out.addEventTrigger( et );
                // Gdx.app.log( "SkeletonBuilder",
                // "I just built an event trigger" );
            } else if ( polyVertsFG != null ) {
                EventTriggerBuilder etb = new EventTriggerBuilder( world );
                etb.name( name + "-fg-fader" ).setVerts( polyVertsFG );
            if(this.lessExtraBorder)
                etb.extraBorder( 128f );
            else
                etb.extraBorder( 300f );
                EventTrigger et = etb.position( pos.add( 0, 0 ) ).addEntity( out )
                        .beginAction( new FadeSkeletonAction( true ) )
                        .endAction( new FadeSkeletonAction( false ) )
                        .repeatable( ).twoPlayersToDeactivate( ).build( );
                out.addEventTrigger( et );
            }
        }
        if ( fadeFgDecals ) {
            out.setFgFade( fadeFgDecals );
        }
        return out;
    }
}
```