Modeling and Surfacing a simple City by Chris Valleroy

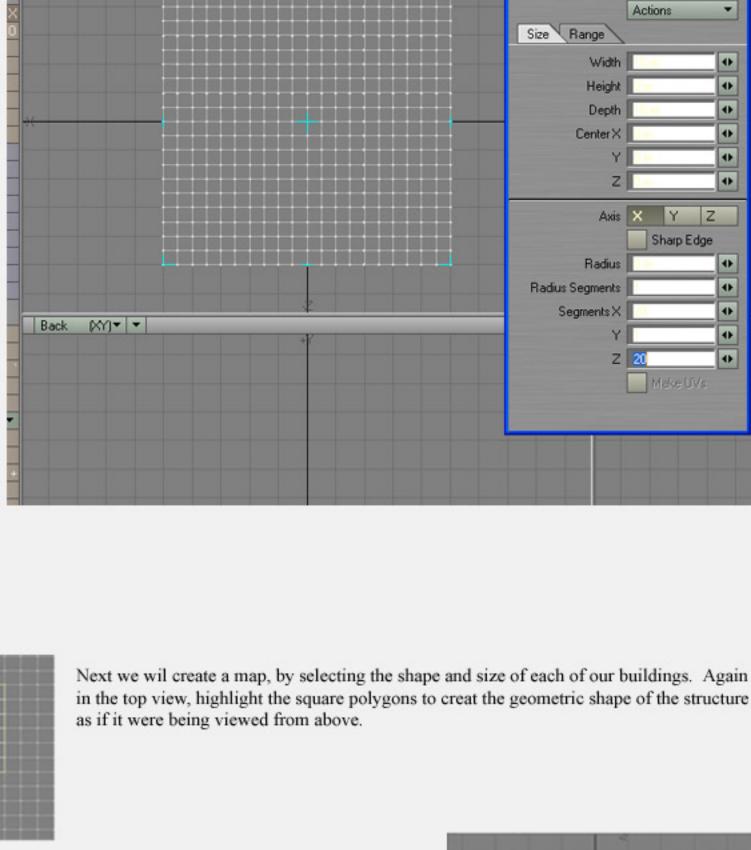
Modify Multiply Construct Detail Map Display

(XZ) -

Creating a Cityscape. First, create a plane using the box tool

in the top viewport. Using the new

meric control panel to give specific dimentions. (this especially helps if you want to create very detailed build ings.) I created this plane, 10 meters on the X-axis by 10 meters on the Zaxis with 20 segments on each.



Numeric: Box Tool

to create one solid polygon.

Once you have your shape selected, use the merge polygons tool under the construct tab

Next, you'll want to get rid of the left over points since they will only clutter your model.

will be our next step.)

Highlight them and delete them. You should end up with something like this. Continue this process untill your map looks satisfying. (Keep in mind to leave open some space for streets which

021

Set Initial Color

Smoothing

Cancel

minute.)

pcy]= =

end up with something like this. Now, you'll want to

will make things easier as we go.

Change Surface

Make Default

Depending on how dense you want your city, you should Wireframe Color Wireframe switch the viewport to Wireframe Shade view mode. It Flat Shade Smooth Shade Weight Shade Once switched, your view should look like this. Now we will begin assigning surfaces to the building shapes. This is important, because it will make your surfacing much easier later. Name your buildings with a system in mind. I used "building 1a" - "building 14a". I also assign a different color to each building, simply because it will make things clearer, especially if you have a lot of buildings. Each building will

> consist of an 2 surfaces an "a" and "b" that is why I named these surfaces with an "a" at the end. (It will make more sense in a

> > Surface Editor

Edit by Object Filter by Name

> building10 building11 building1118

building113

buildings

buildings building?

building8

buildings

Next we will begin adding the sidewalks and the streets. Again we will be using

shapes. Be careful not to simply select all the remaining polygons and hit merge polygons, it will cause some non-planars to appear. Instead select groups similar to the one shown, merge them and then merge those larger polys to one another.

the select and merge polygon method which we used to create the building

You should have less problems this way.

Pattern Surface Name

⊕ □ Q Perspective ▼ ▼

Save

Basic Advanced Environment Shaders

Diffuse

Specularity

Reflection

Transparency

Translucency

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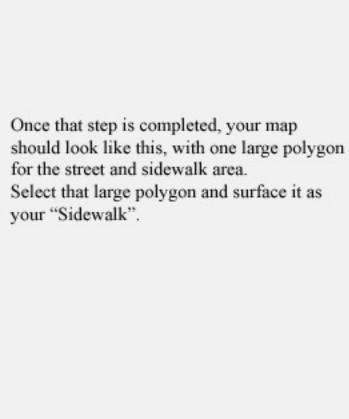
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> odify Multiply Construct Detail Map Display buildings * XZIV V Change Surface ✓ Make Default Set Initial Color Cancel Diffuse Specular 43 Smoothing (ZY)+ + XY]+ +



Now with that polygon surfaced and still selected, use the bevel tool located under the multiply tab or by hitting "b" on the keyboard. Zoom in and drag

the bevel until you have an inner polygon which seems to pull far enough from your buildings that it looks like it forms a street. Leaving the old polygon to form the sidewalk. Once you're satisfied stop and click on the Smoothshift tool also under the

multiply tab, click and drag and look in your back or side viewport to see how much of a step you're creating from your sidewalk to the pavement. (This

may be adjusted later, to fit your building height.) Once you're finished creating your step from the sidewalk to the street, with the polygon still selected, change its surface to "Street". Your map should resemble this one.

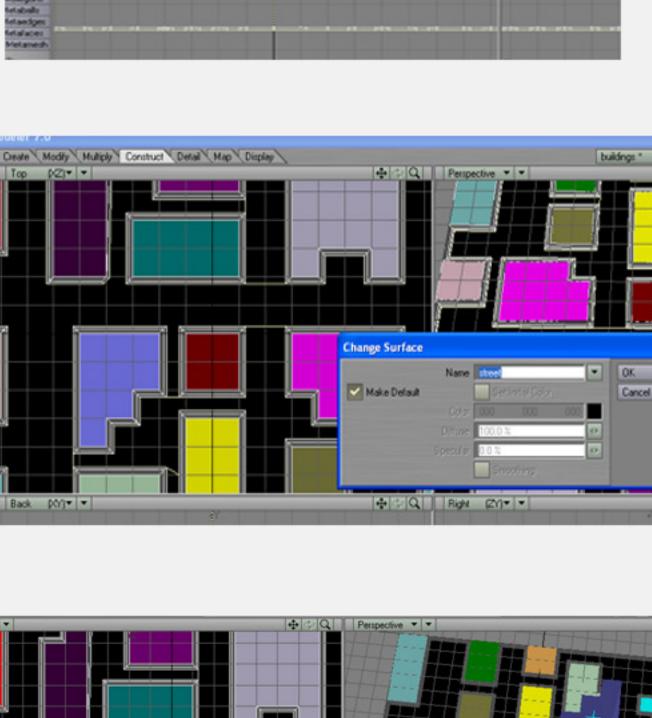
Now we take this map "UP". Select the building you wish to start with. Then go under the multiply tab and choose the

Extrude tool. In either the back or side view, click and drag the building's selected polygon along the Y-axis, toward the sky. Use the numeric tool, to choose how

many floors your building will have by placing that number in

the "sides" box. I gave this one

14 floors.



Later O Viere Veren Vermine Villand

Save

Edit by Object

Filter by Name

Surface Name

building10 building11

building1118

building113

building114

building115

building116 building117

building119 building11b

building12

building2

building20 building3

building4

building5 building6

building? building8

onto it's partner surface. In

building11b onto building11a.

Rember to go in and change

the axis which it is projected

the other will be the Z-axis.

look like the picture here.

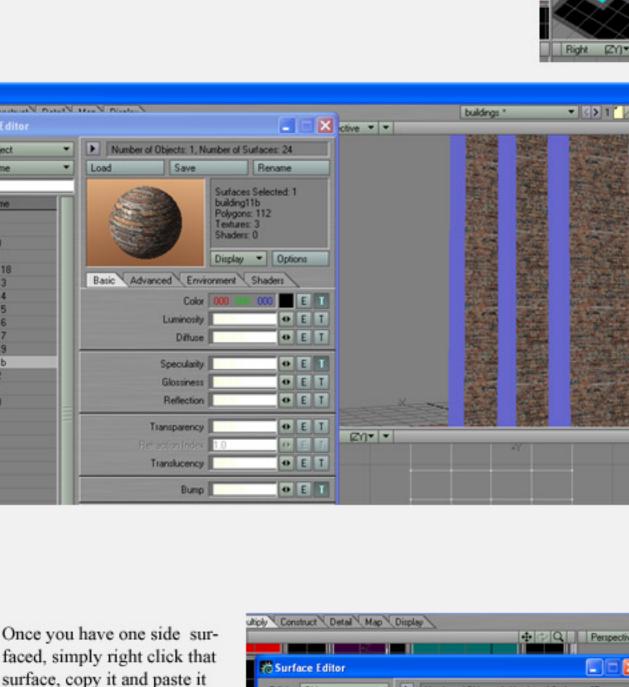
Thew two should line up and

building3

this case I coppied

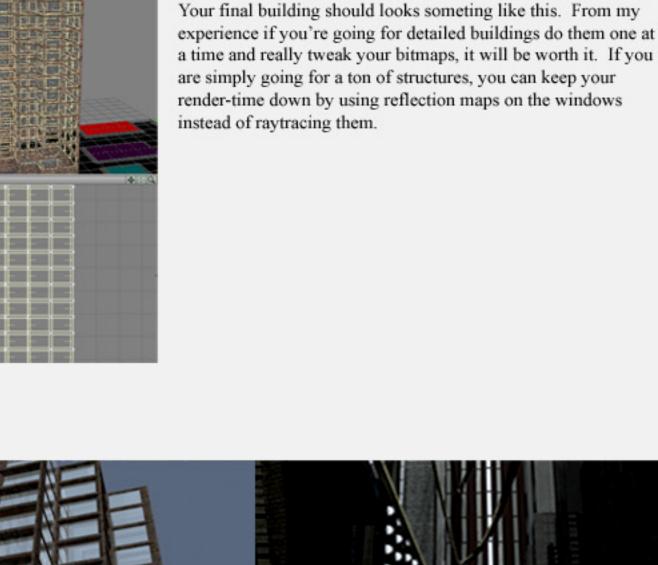
Pattern

buildings



WINDOWS Select all of the polygons in your building, accept possibly the ones on the lowest level and the roof. Unless you want your windows to go to street level. Again, use the bevel tool to create smaller polygons. Depending on the detail you want in your window ledges, you can bevel them one time ore more. Once they are beveled into position, go ahead and resurface them, naming them "Windows" and surface them accordingly.

Now let's let some light in.



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Smoothing

Translucency

setup.

These are just a few examples of what the textures look like (in varying degrees of detail) when placed in an outdoor lighting

