

SIM

CITY 2000[®]



User's
Manual

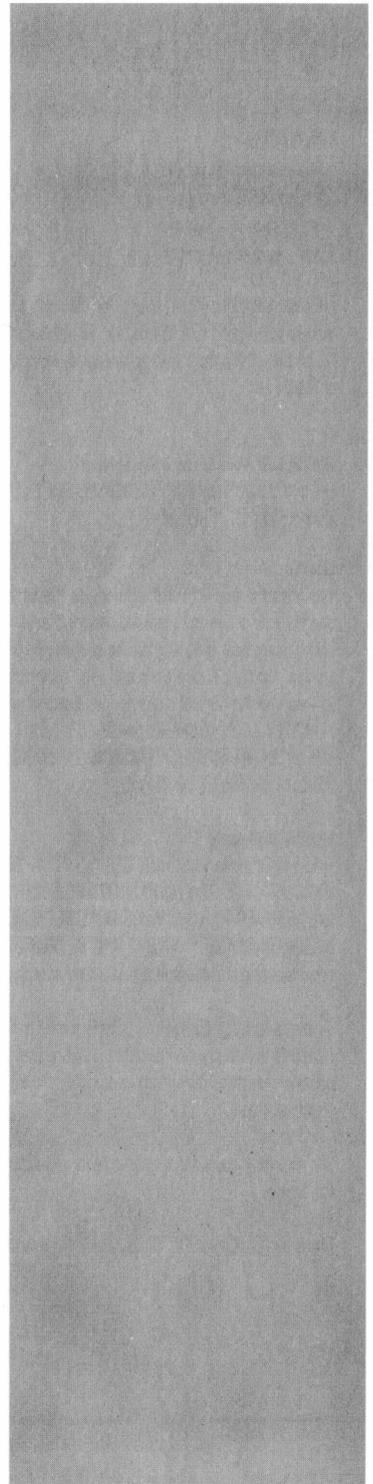
MAXIS



USER'S MANUAL

Windows/Macintosh Edition

by **Bob Sombrio**
and **Michael Bremer**



SIM CITY 2000

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Introduction

The SimCity 2000 Urban Renewal Kit—a.k.a. SCURK—is the ultimate utility for the ultimate city simulator. Building and editing cities and terrain for your Sims was only the beginning. Now you can:

- Build a SimCity 2000 city from scratch, or modify any pre-built city your way, without any money, population, time or developmental constraints. Put buildings, roads, subways...you name it...anywhere, any time, for any reason.
- Enhance, modify, and otherwise embellish the original SimCity 2000 artwork, and even design your own.
- Mix and match the original SimCity 2000 buildings with your own art to create custom object sets that you can load into SimCity 2000.
- Print out your city in any of three sizes, above or below ground, and showing (or not) any layers you choose.

Still not enough for you? Well then, as an added bonus, the talented folks in our art department have created an entirely new, futuristic set of graphics for your enjoyment and editing pleasure.

SCURK is an add-on to SimCity 2000. It won't install or work if you don't have SimCity 2000. You'll have a lot more fun with SCURK if you are already familiar with SimCity 2000, so if you haven't played SimCity 2000, set this manual down and go play. Once you have a feel for the game, you'll have a better feel for designing buildings and cities in SCURK.

**SCURK and
SimCity 2000**

SIM CITY 2000

SCURK and Future Maxis Computer Games

Not only will SCURK help you get more out of SimCity 2000...it'll help you get more out of a number of other yet-to-be-released games as well. SCURK will work with and enhance a number of future Maxis games. You'll be able to use SCURK to create city raceways for driving simulations, targets and obstacle courses for flying simulations, and the playfields for games that...well, you'll just have to wait and see.

Installing and Starting SCURK

When you install SCURK, all the necessary changes are made to your copy of SimCity 2000 so you can use the new graphics we provide or the ones you create. See the SimCity 2000 Urban Renewal Kit Quick-Start Guide for complete instructions for installing and starting SCURK on your computer.

A (Really Small) Warning

Some of the windows on your computer, and some of the object names, may be a little different than how they appear in the manual. This won't have any affect at all on how the utilities and objects work.



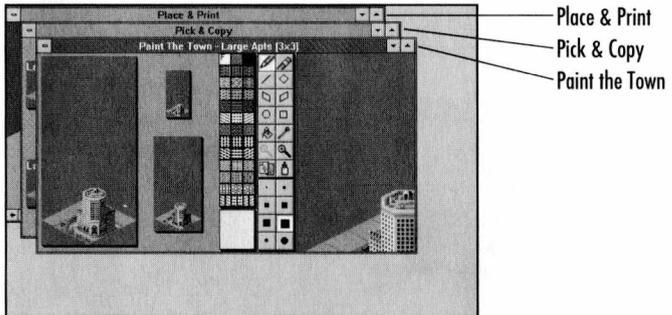
The SCURK Window

SCURK consists of three utilities, each in their own window. To activate a utility, either click on it, or select it in the Window menu.

Paint the Town is a specialized paint program that lets you create new graphics or enhance old ones from either the original or Future City set.

Pick & Copy lets you mix and match different graphics.

Place & Print lets you design, modify, plan, model or otherwise shape a city, and print it out in three different sizes.



Before jumping into the program, here are some helpful definitions:

Objects—Objects are things that appear in SimCity 2000 that can be modified in SCURK. They include buildings, roads, rubble, animated objects and a few other things.

Object Set—An Object Set is a file containing one or more objects. In SCURK, you will be able to copy objects from set to set.

Working Object Set—The Working Object Set is the Object Set that you are currently modifying. The Working Object Set is available to all three utilities. Changes you make to the Working Set in one utility are immediately reflected in the other utilities.

Paint the Town

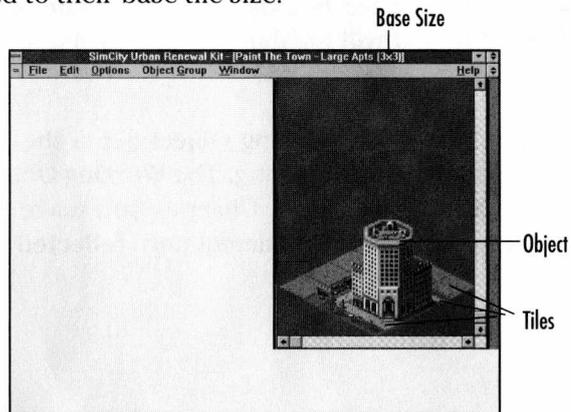
Paint the Town is a specialized paint program that lets you create your own graphics for the objects (buildings, etc.) in SimCity 2000. You can create artwork from scratch or you can start with the original or Future City sets and modify them.

Note: Changing the look of the objects does not in any way change the way the SimCity 2000 simulation works or the game plays. This means you can get as weird and wild as you want with your object designs and it'll always work. In the words of the Immortal Bard, "A Braun Llama Dome by any other visual representation would still smell as sweet." (At least to your Sims.)

Here are a couple more useful definitions for understanding Paint the Town:

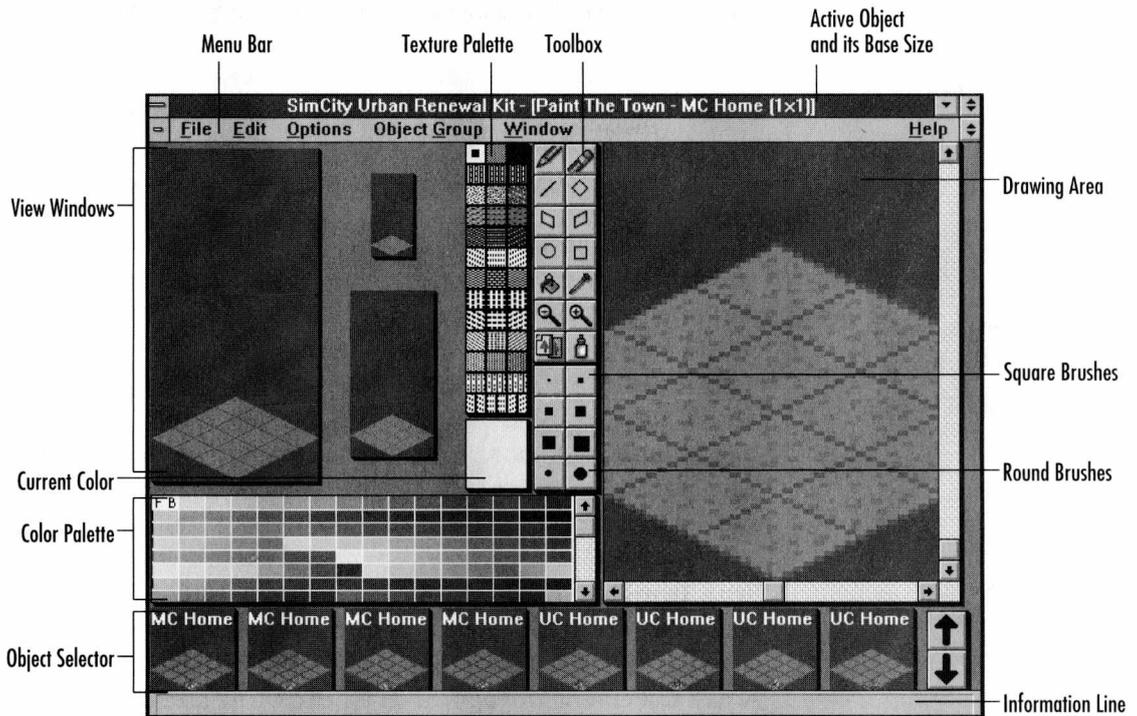
Tiles—A tile is a measurement of area in SimCity 2000. Tiles are the little squares on the ground.

Base Size—Each object has a pre-set, unchangeable base size that limits its width and depth. Some objects have a base size of 1 x 1 tile, others are 2 x 2, a few are 3 x 3, and the biggest ones are 4 x 4. Even the animated, moving objects that don't sit on the ground (like planes and ships) are limited to their base tile size.





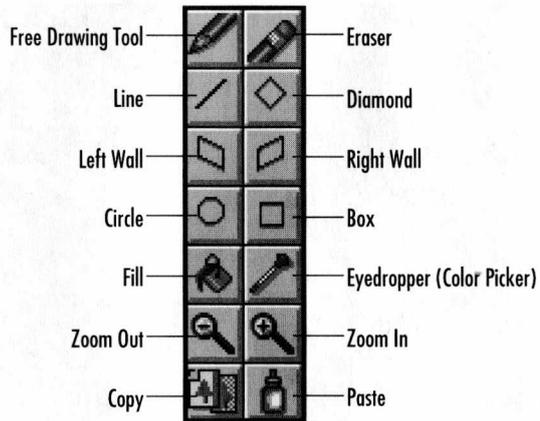
When the Paint the Town utility window is maximized, you will see this screen, where you can create brand new graphics for SimCity 2000 from scratch, or load in an existing set to modify.



Paint the Town works like most computer paint programs, with a couple of special tools to make it easier to draw in the proper perspective for SimCity 2000. The basic process is to choose the tool you want to use from the Toolbox, choose the color you want to use from the palette, then paint in the Drawing Area. Your work will simultaneously be displayed in all three SimCity 2000 zoom sizes.

The Tools

Here's an explanation of all the drawing tools in the Toolbox. If you are familiar with other computer paint programs, you'll master Paint the Town in no time. If not, then read through this section of the manual and play through the tutorial, and you'll master it in almost no time.



Free Drawing Tool—Turns your cursor into a free-style drawing tool. Click or click and drag the mouse in the Drawing Area to use it. While active (and within the Drawing Area), the cursor will appear as a pencil. The size of dots and lines that this tool draws depends on the brush size.



Eraser—Turns your cursor into an eraser. Click or click and drag the mouse in the Drawing Area to use it. While active (and within the Drawing Area), the cursor will appear as an eraser. The area that this tool erases depends on the brush size.



Line—Draws a straight line at any angle. Click and hold to begin the line, drag the mouse to define the line, then release the mouse button to draw the line. While active (and within



the Drawing Area), the cursor will appear as a crosshair. The thickness of the line depends on the brush size.

Diamond—Draws diamond shapes. Click and hold to choose one corner of the diamond, drag the mouse until the diamond is the size you want, then release the mouse button. While active (and within the Drawing Area), the cursor will appear as a crosshair. The thickness of the diamond's outline depends on the brush size. When this button is active, click it again to open a submenu that lets you choose between a hollow diamond and a filled diamond.



Left Wall—Draws parallelograms that make it easy to draw left walls of buildings in the proper perspective for SimCity 2000. Of course, you can use it for things other than left walls if you choose. Click and hold to choose one corner of the wall, drag the mouse until the wall is the size you want, then release the mouse button. While active (and within the Drawing Area), the cursor will appear as a crosshair. The thickness of the wall's outline depends on the brush size. When this button is active, click it again to open a submenu that lets you choose between a hollow left wall and a filled left wall.



Right Wall—Draws parallelograms that make it easy to draw right walls of buildings in the proper perspective for SimCity 2000. Naturally, you can use it for things other than right walls if you choose. Click and hold to choose one corner of the wall, drag the mouse until the wall is the size you want, then release the mouse button. While active (and within the Drawing Area), the cursor will appear as a crosshair. The thickness of the wall's outline depends on the brush size. When this button is active, click it again to open a submenu that lets you choose between a hollow right wall and a filled right wall.





Circle—Draws circles and ellipses. Click and drag the mouse until the circle is the size—and shape—you want, then release the mouse button. While active (and within the Drawing Area), the cursor will appear as a crosshair. The thickness of the circle’s outline depends on the brush size. When this button is active, click it again to open a submenu that lets you choose between a hollow circle and a filled circle.

Box—Draws squares and rectangles. Click and drag the mouse until the box is the size—and shape—you want, then release the mouse button. While active (and within the Drawing Area), the cursor will appear as a crosshair. The thickness of the box’s outline depends on the brush size. When this button is active, click it again to open a submenu that lets you choose between a hollow box and a filled box.

Fill—Fills an area with the selected color, cycle, or texture. It begins where you click in the Drawing Area and fills in all directions until it comes to another color. Fill considers each color of a color cycle pattern to be a different color, so filling over color cycled areas isn’t very effective. While active (and within the Drawing Area), the cursor will appear as a crosshair.

Eyedropper (Color Picker)—Lets you set the brush color by selecting a color in the Drawing Area (so you don’t have to find the color in the palette). Click on the color you want. While active (and within the Drawing Area), the cursor will appear as a crosshair.

Zoom Out—Lets you “step back” from your drawing in the Drawing Area for a big picture look of your work. There are four zoom levels. These are zoom levels above and beyond the three zoom levels that appear in SimCity 2000. They exist to make drawing easier, and do not affect the actual artwork.



Zoom In—Moves you up close in the Drawing Area for those dot-by-dot corrections which can make all the difference between good work and great art. There are four zoom levels. These are zoom levels above and beyond the three zoom levels that appear in SimCity 2000. They exist to make drawing easier, and do not affect the actual artwork.



Copy—Lets you make a copy of any portion of any object in the Drawing Area. Click and drag the cursor to outline the part of the object you want to copy. When you release the mouse button, your cursor becomes a “brush” composed of the copy, and SCURK automatically changes to the Paste tool. Click to paste the copy, or click and drag to paint with the brush. While active (and within the Drawing Area), the cursor will appear as a crosshair until something is copied. You can manipulate the copy (rotate or flip) with tools in the Edit menu before you paste it. The copy is kept on the clipboard until you copy something else.

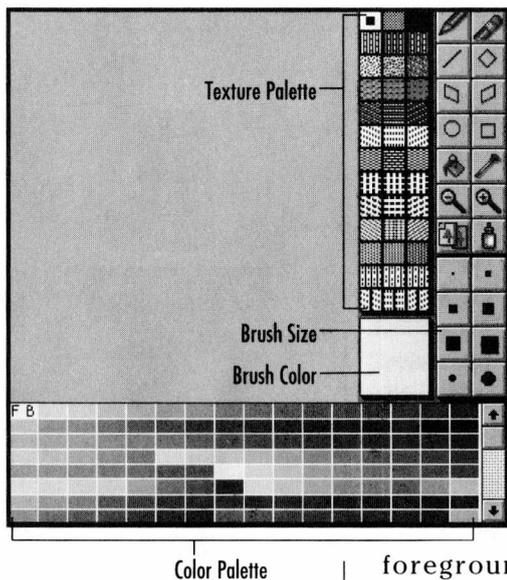


Paste—Lets you paste what you have copied (from the Drawing Area or to the clipboard from another program) into the Drawing Area. It is automatically selected by SCURK right after you copy something with the Copy tool. The copy is kept in memory until you copy something else, so you can use different tools and even load another Object Set, then return to Paste and still have the copy to paste.



The Palettes

Brush Color—Shows the current color and texture pattern of the brush.



Brush Size—Lets you set the size and/or thickness of the dots, lines and shapes you draw (or erase) to a one-, two-, three-, four-, five- or six-pixel square. You also have round brushes which are four- and five-pixels in size. Brush Size affects the free drawing tool, eraser tool, line tool, and all the shape tools. Larger brush sizes soften the corners of the Diamond, Left Wall and Right Wall shapes.

Texture Palette—Lets you choose from a selection of pre-designed texture patterns. Click on a texture to choose it. A red square marks the active texture. The three textures across the top of the palette use solid colors. The first one (white) uses only the foreground (f) color. The second one (gray) mixes foreground and background (b) colors together. The third one (black) uses only the background color. All other textures use both foreground and background colors to create their patterns.

Color Palette—Shows the electronic “paints” available for your works of art. Click on a color with the left mouse button to select a foreground color, and the right mouse button to select a background color. (Macintosh users should click the mouse button to select a foreground color, and hold down the Option key and click the mouse button to choose a background color.) The color cycle patterns are at the end of this palette.

Note: See Appendix for more information on colors, palettes and color cycling.



The Drawing Area

The Drawing Area is where you modify our graphics and create your own. Objects in the Drawing Area are displayed larger than they'll be in SimCity 2000, so you can more easily see the details while drawing them. The display size can be adjusted with the Zoom In and Zoom Out tools in the Toolbox.

BASE SIZE, HEIGHT LIMIT AND THE CLIP REGION

Each object (even when it is blank) has a set base size. Base sizes can be one, two, three or four tiles square. The Drawing Area always displays a four-by-four base, but you can't always use the whole base—only as much of the base as the object you are drawing or editing has. Base sizes cannot be changed. The base size is displayed in the Paint the Town title bar, along with the object name.

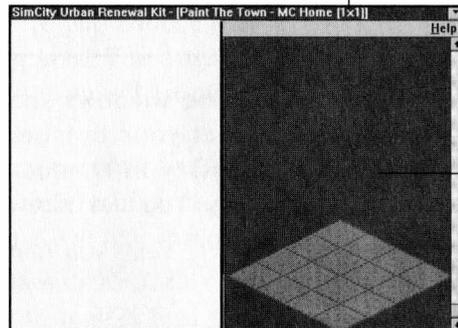
Each object also has a height limit, which is the top of the Drawing Area. No object can extend beyond the top of the Drawing Area.

SCURK will instantly and automatically erase (clip) anything you draw or paste outside an object's base size or above the Drawing Area.

An easy way to keep track of both the base size and the height limit while painting an object is to turn on the Clip Region display.

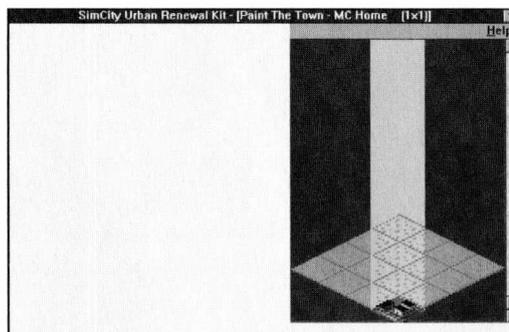
The Clip Region is a grid that defines the part of the Drawing Area that can be used for a particular

Object Name
and Base Size



Visible Drawing Area

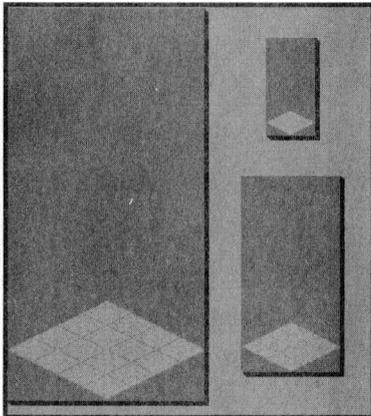
Scroll Bar



object. It is always active, but is only displayed when you want to see it. To turn on the Clip Region display, open the Options menu and select Show Clip Region. Select it again to turn it off.

The View Windows

These windows show the entire Drawing Area, and display what your finished products will look like in the three SimCity 2000 zoom levels. These windows are for display only. You can't draw in them.



Note: you only have to draw each object once and SCURK automatically converts it to all three sizes for you.



The Paint the Town Object Selector is where you choose the object you want to work on in the Drawing Area. The original objects are loaded by default. Here's how to use the object selector:

1. Click on either arrow in the Object Selector until you see the object you want to edit. (If you hear a little "bell" when you click an arrow, it means you are at one end of a group of objects. Simply click the other arrow.)
2. Click on the object you want to edit to load it into the Drawing Area, ready for creative talents to go wild.
3. If you want to edit a different set of objects, open the File menu, select Load..., then choose Working Object Set. A dialog box will open and you can choose the object set you want to edit.

Object Selector

Below the Object Selector is the Information Line. This area provides a brief explanation of the highlighted Menu item. It also displays the coordinates of the drawing tool within the Drawing Area. Position 0/0 is the top-left and 128/256 is the bottom-right corner of the Drawing Area, regardless of base tile size.

Information Line

The Paint the Town Menu Bar

Since the SCURK utilities share the same information, they share many of the same menus and menu functions. Each utility also has some menu items which are unique to that utility. Here's a list of the Paint the Town Menu items and what they do:

FILE MENU

Load has three submenu items:

City...—Loads a previously saved city terrain for use in Place & Print.

Source Object Set...—Loads a source object set for use in Pick & Copy.

Working Object Set...—Loads the Working Object Set used in all three SCURK utilities.

Save has two submenu items:

City—Saves the city terrain used by Place & Print under its current name and path.

Working Object Set—Saves the Working Object Set under its current name and path.

Save As has two submenu items:

City...—Lets you change the name or path (or both) of the city terrain used by Place & Print.

Working Object Set...—Lets you change the name or path (or both) of the Working Object Set.

New has two submenu items:

City—Loads an unnamed, blank, flat city terrain for use in Place & Print.

Working Object Set—Loads a clean, unblemished copy of the original object set as the Working Object Set.



Export BMP File...—Exports the Object in the Paint the Town Drawing Area as a BMP file.

On Macintosh computers, this menu item reads **Export PICT file...**

Print Setup...—Opens a dialog box which allows you to change certain aspects of how your printer will function.

Print City...—Opens a dialog box which allows you to print some or all of the city which is loaded in Place & Print.

Exit—Closes SCURK (after prompting you to save any changes you made).

EDIT MENU

Undo—Removes the result of the most recent mouse action from the Drawing Area.

Copy—Lets you make a copy of any portion of an object in the Drawing Area.

Paste—Lets you paste what you have copied (either with the Copy tool or to the clipboard) into the Drawing Area.

Clear—Erases the contents of the Drawing Area and leaves clean ground and clear sky.

Revert—Returns the object in the Drawing to the state it was in when you brought it into the Drawing Area. Revert only works on one object at a time. You must use it before you change objects—no “go backs.”

Undo or Revert? Undo removes the results of only the most recent mouse click. For example, if you were to draw a circle, Undo would remove it. If you draw a circle and then a box, Undo would remove the box. Revert removes work you have done since you brought

an object into the Drawing Area. For example, if you draw a circle and then a box, Revert removes both of them. If you draw something and then load another object into the Drawing Area, and then load the first object again, Revert does not remove what you drew previously.

Rotate—Rotates what you have copied to the clipboard 90 degrees counter-clockwise. Select it again for an additional 90-degree rotation. This item is “ghosted” if the Paste tool is not selected or if the clipboard is empty.

Flip Horiz—Flips what you have copied to the clipboard 180 degrees horizontally. (Left becomes Right.) This item is “ghosted” if the Paste tool is not selected or if the clipboard is empty.

Flip Vert—Flips what you have copied to the clipboard 180 degrees vertically. (Top becomes Bottom.) This item is “ghosted” if the Paste tool is not selected or if the clipboard is empty.

Rename—Opens a dialog box that allows you to change the name of an object. (This is the name that appears in the query box of SimCity 2000.)

Revert Name—Returns the original name of an object to that object.

OPTIONS MENU

Grid Settings...—Lets you set how fine your drawing grid will be so you can more easily line up shapes with each other in the drawing area.

Snap to Grid—Forces the shapes you draw to line up along the grid pattern.



Show Grid—Toggles the Snap to Grid pattern so you can see how your objects will line up when you draw them. This grid is for display only. It won't become part of an object's artwork.

Show Clip Region—When selected, displays the Clip Region for the object currently in the Drawing Area.

Cycle Colors—Toggles the color cycling on and off, which can make it easier to use for animation. (Sometimes those flashing colors can get annoying). This affects color cycling only in Paint the Town.

Increment Cycle—Lets you “step through” the Paint the Town color cycle patterns for easier animation. This affects color cycling only in Paint the Town. You can only use it when color cycling is turned off.

Sound Toggle—Toggles the sounds for SCURK tools and sound effects of the objects. This only affects objects when they are in SCURK.

OBJECT GROUP MENU

This menu lets you select a group of objects from the currently loaded object set. The selected group will appear in the Object Selector.

WINDOW MENU

Cascade—Overlaps the SCURK utility windows. Click the title bar of the utility you wish to use to activate.

Paint the Town—Activates the Paint the Town utility.

Pick & Copy—Activates the Pick & Copy utility.

Place & Print—Activates the Place & Print utility.

Paint the Town Notes and Guidelines

OBJECTS YOU CAN'T MODIFY

The following objects cannot be altered in SCURK:

- Roads
- Onramps
- Rails
- Trains
- Power Lines
- Bridges
- Water Tiles
- Hillside Tiles
- The Alien
- Small Boats
- Zone Indicator Colors
- Airport Runways
- Highways
- Tunnels
- Subways
- Sub-to-Rail Connectors
- Water Pipes
- Wire Crossings
- Ground Tiles
- Signs
- Small Parks
- Helicopters
- Police, Fire and Military Dispatch Icons

IMPORTING GRAPHICS

You can import graphics into Paint the Town. If you can load them (or draw them) in any graphics program and copy them to the clipboard, you can paste them into the Paint the Town Drawing Area.

IMPORTED GRAPHICS AND COLOR

Palettes are tricky things, especially when you import graphics from other programs. Both SimCity 2000 and SCURK have a set 256-color palette that reserves a number of places for color cycling. This palette is not changeable in either SimCity 2000 or SCURK.

When you import graphics from another program into SCURK, SCURK will do its best to match each color in the imported graphic to a color in the SimCity 2000 palette. Depending on the original palette, this might work perfectly—or it might leave some colors looking strange. You



can either touch up the colors you don't like, or leave them alone and call it art. Your Sims won't care one whit about how strange the colors are.

If you want to use another paint program to draw or put the finishing touches on objects, it's best to use the right palette. You can do this by first exporting an object with the Export BMP... on Windows computers or Export PICT... on Macintosh computers option in the File menu, then loading that file into your other paint program. The palette will be included in the exported file. Most paint programs will also let you copy the palette from another file, so you can get the correct palette for your other program from the sample BMP or PICT file. In any event, even with the right palette, the color cycling won't appear in your other paint program, and you might use the cycle colors by accident. The best thing to do is to start objects in SCURK, export them for detailed touch-up in another program (if you have one you really really like), then bring it back into SCURK for final color test and touch-up.

OBJECTS AND THE SIMCITY 2000 SIMULATION

- You can make any of the buildings look any way you want, but remember that each of the buildings (and other objects) has a specific meaning to the SimCity 2000 simulation. For the most part, the functions of all the objects in the Specials, Power, Transport & Military and Misc. Ground object groups are pretty obvious. But you'll need to take a little care when dealing with the objects in the Residential, Commercial and Industrial groups. Each of these buildings is selected by the simulation and put into a SimCity 2000 zone based primarily on population density, with minor variations for land value.
- As a rule of thumb, any residential, commercial or industrial building that has a one-by-one base size is low

density. A building with a three-by-three base size is high density. Buildings with two-by-two base sizes are medium density (some are low-medium and others high-medium).

- Each object has two names. The full name that appears in the Paint the Town title bar is similar to name that will appear in SimCity 2000 in the Query windows. This is the name that you can edit to suit your creative whims and spelling abilities. More than one object may have the same full name. The other name is a shortened version that appears only in SCURK within the Object Selector to help you pick the object you want to work on. Each shortened name is different to help you tell them apart and to help you understand how the objects are used by the simulation so you can take it into account when you draw the objects. In these shorter names, L=Large, M=Medium and S=Small. Some of the animations in the Animated I object group consist of multiple frames. Their shortened names are labeled A, B, C, etc., to show their frame order. The objects in the Animated II object group show the object moving in different directions. Their shortened names indicate their direction: N=facing north (up), E=facing east, NE=facing northeast, SE=facing southeast, S=facing south. (When these objects need to face the other directions, SimCity 2000 flips them.)

COPYING AND PASTING

- You can edit only one object at a time, but you can copy and paste between different objects and groups within different object sets.
- You can only copy what is showing in the Drawing Area. You cannot scroll through the drawing area while copying. Use Zoom Out to Copy large objects, including entire buildings as long as they fit within the Drawing Area.



COLORS AND COLOR PALETTES

- As the “F” stands for “foreground,” the “B” in the color palette stands for “background.” The letters “F” and “B” simply distinguish between two colors which can both exist in a texture pattern. It does not indicate such things as the background of the Drawing Area for example, or that one color is “in front” of or “behind” another.
- The foreground and background can be the same color. When using the solid texture, the color of the brush is always the “foreground” color.
- The colors in the palette and cycle patterns are fixed and are not user alterable. Sorry.
- Regardless of how the color cycles “move” in the display, cycle direction is determined by the order in which the colors are placed on an object. For example, if color number two of a pattern is placed above color one, and color three is placed above color two, and so on, “motion” is from bottom to top.
- Any steady color or color of a cycle pattern can be either background or foreground for any texture pattern. Mix and match color cycles, steady colors and textures for truly garish effects.
- See Appendix for additional information on colors, palettes and color cycling.

Pick & Copy

The Pick & Copy utility lets you mix and match objects from the original object set, the future set and your own sets (from Paint the Town) to create new object sets. You can save them to disk and use them in SimCity 2000 to provide your Sims with your own particular (or peculiar) architectural interpretations.

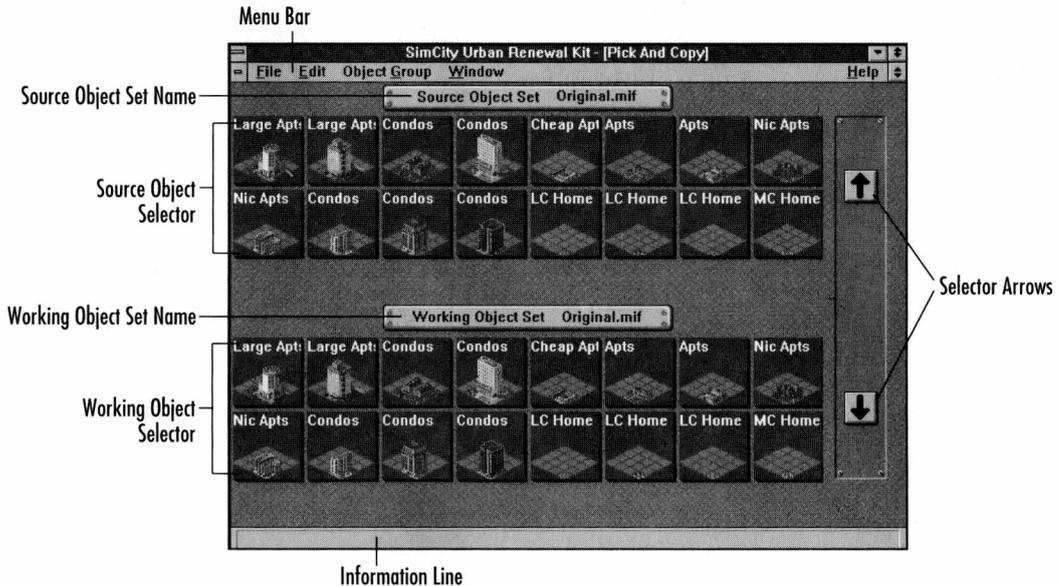
The steps for using Pick & Copy are:

1. Pick a Source Object Set. This can be the original set, the future set or any set you have created on your own in Paint the Town.
2. Pick a Working Object Set to build. This could be the set you most recently worked on in Paint the Town, any other existing object set, or a new, blank object set.
3. Copy objects, one-by-one or in groups from the source to the working set. You can change the source object set if you want to mix and match objects from a number of sources.
4. Save the working set to disk. You can load a different working set at any time to build a library of object sets.



Picking and Copying

As soon as you activate Pick & Copy, you'll see this screen. The number of objects our Object Selectors show will depend on how you size your window and the resolution you are using. Your Source Object Set name may be different:



This screen lets you pick individual objects or object groups in the Source set and copy them into the Working set. Once you've got your Working set exactly the way you want it, you should save it to disk. Open the File menu and select Save or Save As..., then select Working Object Set. The Working Object Set you create is the one that will be used by Place & Print (unless you choose to load another one).

PICKING AND COPYING INDIVIDUAL OBJECTS

You can only copy from the Source set to the Working set. Here's how:

- 1. Locate the object(s) in the Source set that you want to copy to the Working set.**

Open the Object Group menu and select the object group that contains the object(s) you want to copy. The same object group is always displayed in both the Source and Working object selectors, even though the individual objects may be different. Click on the Selector Arrows until the object you want to copy is showing.

- 2. Select the object(s) that you want to copy to the Working set.**

Click on the object or objects in the Source Object selector that you want to copy. Both the Source and Working instances of the object(s) will be highlighted. The Source set will have a thick border and the Working set will have a thinner border. Hold the Ctrl key (for Windows) or the Control key (for Macintosh) and click on multiple objects to select them. Hold the Shift key and drag your mouse across a row of objects to select them. Click on a selected object while holding the Ctrl key (for Windows) or the Control key (for Macintosh) to de-select it.

- 3. Copy the Selected Object(s).**

Open the Edit menu and choose either Copy Selected or Copy All. You can also drag the highlighted objects from the Source set to the Working set. If you are copying more than one object, SCURK will automatically put selected objects from the Source set in their proper place within the Working set. You'll get a dialog box confirming what you want to copy. After objects are copied, they are de-selected.



4. Select another Source and repeat.

If you want your Working set to include individual objects from other Source files, then open the File menu, select Load Source... and select the new Source file. Repeat steps one through three until your Working set is complete.

PICKING AND COPYING OBJECT GROUPS

Copying entire Object Groups is very similar to copying individual objects. Just follow these steps:

1. Select the object group you want to copy from the Source set to the Target set.

Open the Object Group menu and select the group you want to copy. Select All Objects if you want to copy the entire object set from the Source set to the Working set.

2. Open the Edit menu and select Copy All.

The selected object group will be copied from the Source set to the Working set. If you choose All from the Object Group menu, the entire Source Object Set will be copied. You'll be asked to confirm your action.

3. Select another Source and repeat.

If you want your Working set to include object groups from other Source files, then open the File menu, select Load and then Source..., and load a new source object set. Repeat steps one and two until your Working set is complete.

SAVING THE WORKING OBJECT SET TO DISK AND USING IT WITH SIMCITY 2000

Once your Working Object Set is complete, you can save it to disk as an object set by selecting Save or Save As... from the File menu, and then Working Object Set. You'll be able to load it as an alternate graphic set when you next start SimCity 2000.

The Pick & Copy Menu Bar

The SCURK utilities share many of the same menus and menu functions. Each utility also has some menu items which are unique to that utility. Here's a list of the Pick & Copy Menu items and what they do:

FILE MENU

Load has three submenu items:

City...—Loads a previously saved city terrain for use in Place & Print.

Source Object Set...—Loads a source object set for use in Pick & Copy.

Working Object Set...—Loads the Working Object Set used by the three SCURK utilities.

Save has two submenu items:

City—Saves the city terrain used by Place & Print under its current name and path.

Working Object Set—Saves the Working Object Set under its current name and path.

Save As has two submenu items:

City...—Lets you change the name or path (or both) of the city terrain used by Place & Print.

Working Object Set...—Lets you change the name or path (or both) of the Working Object Set.

New has two submenu items:

City—Loads an unnamed, blank, flat city terrain for use in Place & Print.

Working Object Set—Loads the original object set as the Working Object Set.

Print Setup...—Opens a standard dialog box that allows you to change certain aspects of how your printer will function.



Print City...—Opens a dialog box that allows you to print some or all of the city that is loaded in Place & Print.

Exit—Closes SCURK (after prompting you to save any changes you made).

EDIT MENU

Copy Selected—Copies all the objects you have selected from the Source Object Set to the Working Object Set.

Copy All—Copies the entire group of objects that you have loaded from the Source Object Set to the Working Object Set. If you selected "All" from the Object Group menu, then the entire object set will be copied from the Source to the Working Object Set.

OBJECT GROUP MENU

This menu lets you select a group of objects from the currently loaded object set (including new or blank sets). The selected group will appear in the Object Selector.

WINDOW MENU

Cascade—Overlaps the SCURK utility windows. Click the title bar of the utility you wish to use to activate that utility.

Paint the Town—Activates the Paint the Town utility.

Pick & Copy—Activates the Pick & Copy utility.

Place & Print—Activates the Place & Print utility.

Below the object selector is the Information Line. This area provides a brief explanation of the highlighted Menu item.

Information Line

Pick & Copy Notes and Guidelines

FROM SOURCE TO WORKING

You can only copy objects from the Source Object Set to the Working Object Set. You cannot copy from the Working Object Set to the Source set. Any object set can be either Source or Working. You can even use the same set as both the Source and the Working.

You can only copy from a particular Source object or objects to the same particular Working object or objects. No matter how you drag highlighted objects, Pick & Copy will always copy the Source objects you have selected to their proper place in the Working set.

Nothing you do has any effect on the Source Object Set. You cannot copy objects to the set you have loaded as the Source set, nor can you save the Source set. If you want to make changes to an object set, it must be loaded as the Working set.



Place & Print

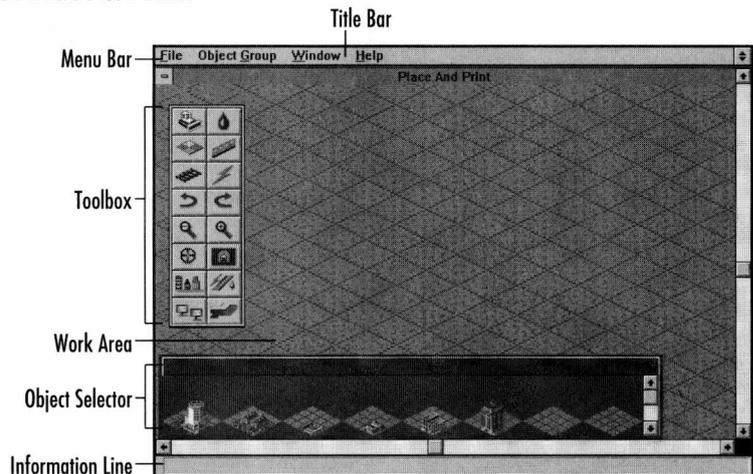
Place & Print has two functions:

- It allows you to completely model a city's terrain, and provide buildings, infrastructure and all that other city stuff without the annoying money, time and population constraints of SimCity 2000.
- It prints part or all of your city in any of three sizes, in color or black and white.

Big Big Warning!! Place & Print gives you complete freedom to place any road, zone, building, object or whatever anywhere you want—BUT once you load your creation into SimCity 2000, don't be surprised when the buildings you so carefully placed start to decay or disappear. Place & Print leaves you open to explore beautiful and impossible cities and print them out, but it doesn't convince the Sims to like them. (That's controlled by the SimCity 2000 simulation and is not changed by SCURK.) But Place & Print serves another purpose: beyond designing impossible cities (and customizing possible ones) it will let you create the playfields for future Maxis games, including driving and flying simulations and...well, just wait and see.

Here's the screen you'll use for Place & Print:

When you first enter Place & Print (and if you haven't already loaded a city), the terrain is completely empty and flat, ready to be molded to suit your fancy. You can leave it flat for maximum city size, or sculpt it with the Edit tools. You can also load cities created with either SCURK or SimCity 2000.



The Object Selector

Note: The graphics displayed in Place & Print are those currently loaded as the Working Object Set. To change the graphics for placing or printing, simply open the File menu, select Load and then select Working.



The Place & Print Object Selector lets you choose and place individual objects (buildings, parks, and the like) anywhere you want in the city. To use it:

1. Open the Object Group menu and select a group of Objects (the default is All Objects, beginning with the Residential Group).
2. Click on either arrow in the Object Selector until you see the object that you want to place.
3. Click on that object to select it.
4. Click in the Work Area to place the object.

The Place & Print Object Selector is a movable window. This lets you move it out of your way and view more of your city when you are building.



The Toolbox

The Toolbox contains items that are very similar to their counterparts in the SimCity 2000 toolbox, with just a few differences:

- If a tool button has several functions, the previous function used will be activated when you click that button. Click the button again to open a submenu of additional functions.
- Water (ponds, rivers, lakes) and water pipes have been combined in one tool.
- The placement of all zones, including seaports, airports and military, has been combined into one tool.
- Every object—*except* those in Animated I and Animated II—that you can modify in SCURK (including trees, power plants, bus depots, rail and subway stations, schools, police and fire stations, etc.) is chosen from the Object Selector.



Note: The Terrain toolbox in SimCity 2000 has more extensive terrain modification tools. If you need more earth-moving power than SCURK has, then, in SimCity



✓ Demolish/Clear

Level Terrain
Raise Terrain
Lower Terrain
De-zone

2000, select Edit New Map from either the Startup dialog box or the File menu, make all the major modifications you want, and save it to disk. You can then load it into SCURK for adding city infrastructure and objects.

BULLDOZER

The Bulldozer is your main tool for molding the land as well as a source of destructive delight. Click once to use the most previously used function. Click again for a submenu of these functions:

Demolish/Clear is the default function. It destroys and removes objects without altering terrain or zoning status. Click on anything to destroy it. The Place & Print Bulldozer does not leave rubble.

Level Terrain lets you choose an altitude level by clicking and holding on terrain in the Work Area which has the altitude you want. Click on terrain that has the altitude you want, then move the mouse (without releasing the mouse button) to slice off hills and fill valleys to make them your chosen height. When terrain is leveled, any objects built on that terrain are removed.

Raise Terrain lets you build hills, mountains and plateaus. When terrain is raised, any objects built on that terrain are removed.

Lower Terrain lets you dig canyons and remove mountains. When terrain is lowered, any objects built on that terrain are removed. If you lower the terrain below sea level, it will fill with water.

De-zone lets you change undeveloped residential, commercial, industrial, seaport and airport zones to unzoned land.



✓ Pond/Lake/River
Pipes

WATER TOOL

The Water tool lets you place water on the terrain and water pipes underground. Click once to use the most previously used function. Click again for this submenu of options:

Pond/Lake/River lets you “paint” water on your terrain. Use it to place lakes, rivers, coastal areas and water falls. The cursor is a water drop when this function is active. The Pond/Lake/River option does not lower terrain.

Pipes lets you place underground water pipes. Choosing this option automatically changes the Work Area to the Underground view so you can see where your pipes are going. Your cursor is a water faucet when this function is chosen.

Note: The Water Pump, Water Tower, Water Treatment Plant and Desalinization Plant, which are part of the SimCity 2000 water system, are placed with the Object Selector. They are in the Specials group.

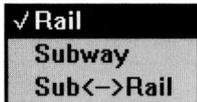
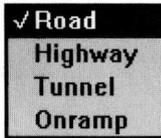
ZONE TOOL

The Zone tool lets you place nine zone types. Click once to choose the most previously used zone. Click again to choose between these types of zones: **Light Residential, Dense Residential, Light Commercial, Dense Commercial, Light Industrial, Dense Industrial, Seaports, Airports** and **Military**.

Note: All the Military objects are in the Transport & Military Group.



✓ Light Residential
Dense Residential
Light Commercial
Dense Commercial
Light Industrial
Dense Industrial
Seaport
Airport
Military



ROAD TOOL

The Road tool lets you place roads and related functions. Click once to use the most previously used function. Click again to choose between **Road**, **Highway**, **Tunnel** and **Onramp**.

Note: The Bus Depot, which is part of the Road tool in SimCity 2000, is placed with the Object Selector. It is in the Transport & Military group.

RAIL TOOL

The Rail tool lets you place rails and related functions. Click once to use the most previously used function. Click again to choose between **Rail**, **Subway** and **Subway to Rail** connections.

Note: The Rail Station and the Subway Station, which are part of the Rail tool in SimCity 2000, are placed with the Object Selector. They are in the Transport & Military group.

POWER LINE TOOL

The Power Line tool lets you paint power lines. There is no submenu.

Note: Power Plants, which are part of the Power tool in SimCity 2000, are placed with the Object Selector. They are in the Power group.

ROTATE COUNTER-CLOCKWISE

Click to rotate the entire city map 90 degrees counter-clockwise.

ROTATE CLOCKWISE

Click to rotate the entire city map 90 degrees clockwise.

ZOOM OUT

Click to “step back” for a big picture look at your city.



ZOOM IN

Click to move in for a detailed look at your city.



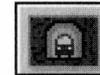
CENTER TOOL

The Center tool lets you pick a place in your city to be centered in the Work Area. Activate the tool and click anywhere in the Work Area.



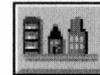
SHOW UNDERGROUND VIEW

Click to toggle between the surface and the underground views.



SHOW BUILDINGS

Click to toggle on and off the display of all buildings in the Work Area. The buildings won't be destroyed, they'll just be invisible until you turn them back on.



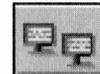
SHOW INFRASTRUCTURE

Click to toggle on and off the display of all Miscellaneous Ground Objects, plus power lines, roads and highways, rail lines and subway stations.



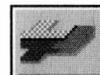
SHOW SIGNS

Click to toggle on and off the display of all signs in the Work Area.



SHOW ZONES

Click here to toggle on and off the display of all buildings in zones. It doesn't affect arcologies or city-owned buildings like police and fire stations, educational facilities, depots or power plants, but it does affect ports and military bases. In underground view, it toggles on and off a color display that lets you know where your zones are without going back upstairs.



The Place & Print Menu Bar and Information Line

The SCURK utilities share the same information and many of the same menus and menu functions. Each utility also has some menu items that are unique to that utility. Here's a list of the Place & Print menu items and what they do:

FILE MENU

Load has three submenu items:

City...—Loads a previously saved city terrain for use in Place & Print.

Source Object Set...—Loads a Source Object Set for use in Pick & Copy.

Working Object Set...—Loads a Working Object Set for use in all three SCURK utilities.

Save has two submenu items:

City—Saves the city terrain used by Place & Print under its current name and path.

Working Object Set—Saves the Working Object Set under its current name and path.

Save As has two submenu items:

City...—Lets you change the name or path (or both) of the city terrain used by Place & Print.

Working Object Set...—Lets you change the name or path (or both) of the Working Object Set.

New has two submenu items:

City—Loads an unnamed, blank, flat city terrain for use in Place & Print.

Working Object Set—Loads a clean, unblemished copy of the original set as the Working Object Set.

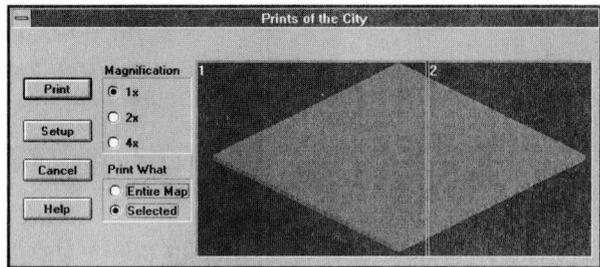


Export City...—Exports the city in the Work Area as a BMP file (for Windows) or a PICT file (for Macintosh).

Note: See the SCURK Addendum for any restrictions on using the Export City function.

Print Setup...—Opens a system standard dialog box which allows you to change certain aspects of how your printer will function. Consult your computer and printer manuals if you need help with changing any settings.

Print City...—Opens a dialog box that allows you to print some or all of your city. Choose your zoom level from the Magnification options then select the pages you want to print. You can also make changes to your printer setup if necessary.



- The **City Map** displays an entire city area. You won't see any features such as mountains, coasts or buildings, but the map itself is positioned the same way as your city terrain in the Place & Print Work Area. The numbered rectangles indicate what part of the city will be printed on one page of paper. The larger the magnification level, the smaller the page size and the more detail each page will have. Click on pages you don't want to print to make them "gray." Click on any those pages again if you want to print them.
- **Magnification** determines the size of city to print. The "1x" option prints pages in the farthest Zoom Out mode, "2x" is the medium view, and "4x" is the closest Zoom In mode. This magnification level is not based on the zoom level you are using in the Place & Print Work Area.
- **Print What** gives you the choice of printing the Entire Map or the pages you have Selected. If you select Entire Map, you can't "turn off" any pages.

- The Print button prints the area of the city you have defined in the City Map, either the Entire Map, or Selected pages.
- The Setup button opens a standard print setup dialog box. You can change several options of printing from this dialog box. For best results, you should use Portrait Orientation and 8 1/2 x 11 in.
- The Cancel button closes the print dialog box and returns you to the Place & Print Work Area without printing.
- The Help button opens the Help file if you need assistance.

Note: Printing an entire city can take as long as five hours, depending on Magnification Setting.

Exit—Closes SCURK (after prompting you to save any changes you made).

OBJECT GROUP MENU

The Object Group menu lets you choose the group which has the objects you want to place. The groups Animated I and Animated II are missing from this menu list. Any modifications you have made to objects in Animated I or Animated II groups will be used in SimCity 2000, but you can't place them in Place & Print.

WINDOW MENU

Cascade—Overlaps the SCURK utility windows. Click the title bar of the utility you wish to use to activate that utility.

Paint the Town—Activates the Paint the Town utility.

Pick & Copy—Activates the Pick & Copy utility.

Place & Print—Activates the Place & Print utility.

INFORMATION LINE

This area provides a brief explanation of the highlighted Menu item.



Place & Print Notes and Guidelines

REGULATIONS FOR CITY PLANNERS

- All SimCity 2000 Edge-of-the-World restrictions and Terrain type and size requirements are in effect in Place & Print. Objects that cannot go on the edge of the map in SimCity 2000 cannot be placed there in Place & Print; all objects require their specific base tile size to be flat terrain; the Marina must be placed on at least one water tile; Onramps must still be at proper intersections of Road and Highway; Subway to Rail connections require at least one Rail, a Subway, or another Subway to Rail connection.
- Zoning does not affect where you can place objects. For example, if you place a residential building in an industrial zone, the land under the residential building will be rezoned residential.
- You can load your old cities and renovate to your heart's content. Any and all renovations do not take effect until the next time you load your city into SimCity 2000.
- You can't alter scenarios. Sorry, you'll have to beat those on your own.
- There is no rubble when you demolish something, but you can place rubble anywhere you want, if you want.
- You can't add money to your city's treasury. (Who needs money now, anyway?)

IF YOU BUILD IT, WILL THEY COME?

Any city you create with Place & Print can, of course, be loaded into SimCity 2000. Be forewarned though. The second you load it into SimCity 2000, the simulation will start to change things according to the whims of the Sims. A city you "pre-build" with Place & Print will experience an initial spurt of growth when loaded into SimCity 2000. The larger your city, the sooner this growth will end. The first Sims who move in occupy only a few of the buildings you've provided.

All the rest of the buildings are considered abandoned. Office towers sit vacant as they wait for tenants who are slow in coming. Houses are unbought and apartments are unrented. There are no workers for the factories. Urban blight spreads quickly, which is hardly a selling point for enticing more Sims to move to your city.

The main “practical” and productive uses for the Place part of Place & Print are:

- To modify, customize or otherwise touch up cities that you’ve built in SimCity 2000,
- To create cities-as-art to print out,
- To see just how well you understand city design and the SimCity 2000 simulator by building a city first and seeing if the Sims like it, and
- To create the playfields for future Maxis driving, flying and other games and simulations.



Introduction

A SCURK Tutorial

In this brief tutorial, we'll touch on the basic features of each of the three SCURK utilities. We will:

- Start Paint the Town and modify one object (the statue) with the paint tools and color cycling.
- Use Pick & Copy to put some futuristic graphics into the SimCity 2000 game.
- Use Place & Print to make a small city—with our new statue and graphics—and print it out.

In this tutorial, when you see type that looks like this, it is an instruction for you to follow.

Type that looks like this is an explanation.

By the way, this tutorial assumes that you are familiar with SimCity 2000. If you aren't, take some time and play the game, then come back to SCURK and this tutorial. It'll make a lot more sense if you do.

Using Paint the Town

This first part of the tutorial will walk you through the basics of using the Paint the Town utility. Here's what we're going to do:

- Start Paint the Town.
- Locate a particular object (the statue).
- Modify the object (put a couple of pigeons on top of it, then snazz it up with color cycling).
- Save the modified object for later use.

Load SCURK.

Activate Paint the Town.

Click on the Paint the Town window Grow box to expand the utility to its full size and begin the Paint the Town utility.

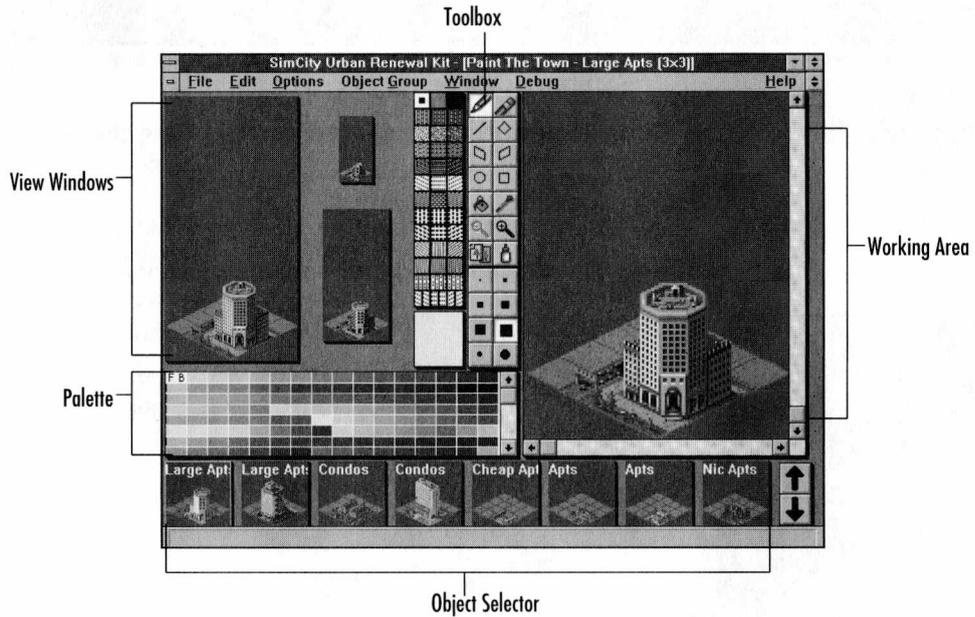
When you first enter Paint the Town, you'll see the screen below.

By default, you start with the original set of objects. You'll want to draw your own buildings eventually, but for now we'll use the original graphics as a base.



LOCATING THE STATUE

When an object set is loaded, the “Large Apartments” object of the Residential Group is always the default starting point. We want the Statue, which is in a different object group—Specials.



Open the Object Group menu and select Specials.

You'll now see that the Object Selector looks like this:

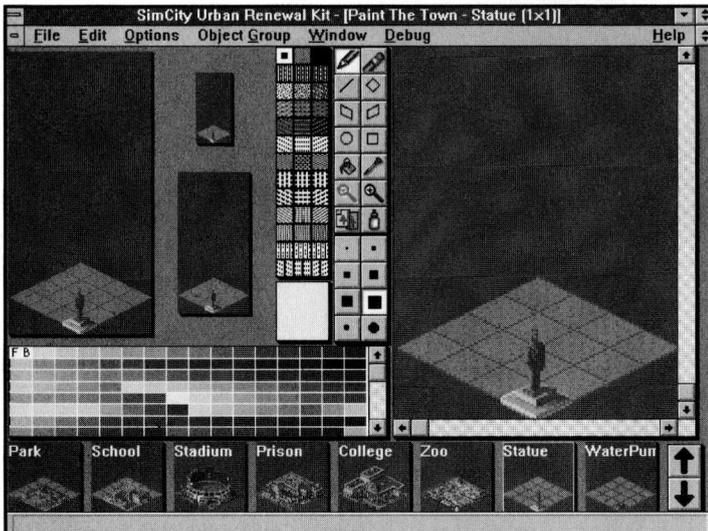


The Statue won't be very hard to find.

Click on either selector arrow until you see the Statue in the Object Selector.

Click on the Statue.

Now the Statue is ready for enhancement.





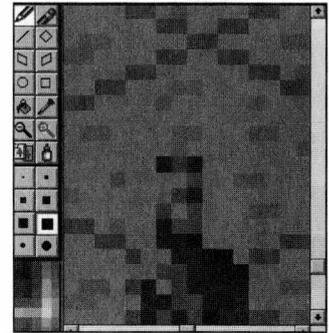
FOR THE BIRDS—OUR FIRST DRAWING

We'll zoom in close and work at the "pixel" level to see what we're doing, just like the artists did when the statue was first drawn.

Click the Zoom In tool until it is "ghosted" and you are zoomed all the way in.

Move the right-side scroll bar up until just the top of the Statue's head shows.

Note: The Statue will lose some definition, but the three View screens will not change.



We could draw our pigeon directly on the Statue, but it'll be easier to draw it above the statue first, in case we make mistakes or have to erase something. We can copy it and move it down when we're sure we have it right.

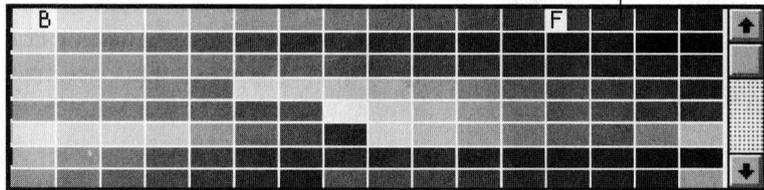
Click on one of the gray colors along the top of the color palette.

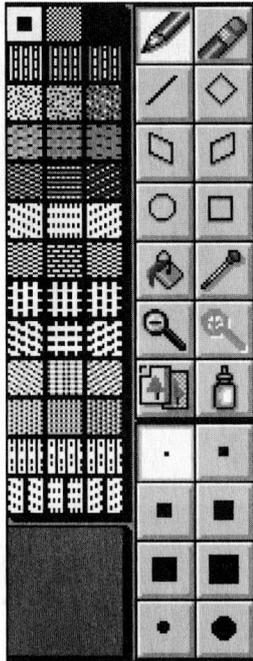
An "F" (for foreground) appears in the palette on the color you chose. This color is also the color in the Brush Color Box.

Click the Free Drawing tool (if it isn't already selected).

Click the smallest brush size (if it isn't already selected).

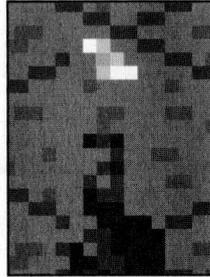
Gray color area





Make sure you are using the Solid texture.

Here's the pigeon we're going to create (it's a simple bird, consisting of only seven pixels):



Draw a pigeon in the space above the Statue, like the one in the picture.

The sample uses white and two shades of gray, but you can use as few or many shades or colors as you want. Just find the color(s) you want to use in the palette, click on them (one at a time) and draw with them.

Note: If you draw something that is erased by the editor, it means you are outside the Clip Region. If this happens, make sure the bottom scroll bar is near the center of the bar and try drawing the pigeon lower down, closer to the Statue's head.



COPYING, PASTING AND ERASING

Now we'll use the Copy tool to place our work of art on the Statue.

Click the Copy tool.

Move the cursor slightly above and to the left of your bird.

Click and hold the left mouse button, and drag the cursor down and right to stretch a box around your bird.

Release the mouse button.

Your cursor becomes a brush in the shape, size and color of our feathered friend. When you move the cursor outside the drawing area, it becomes a normal arrow again.

Use the scroll bars to bring the Statue back into the Drawing Area.

Position your bird-cursor to one shoulder of the Statue like in the top picture at the right.

Click the mouse to paste a copy of your bird onto the Statue.

Anyone who has seen pigeons knows that there is never just one. However, we won't have to draw another one. We can flip and rotate our drawing in the clipboard to make a new image.

Open the Edit menu.

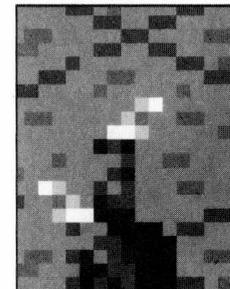
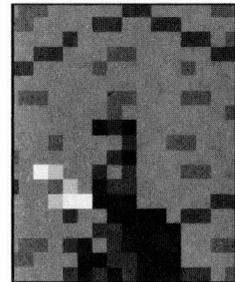
Choose Flip Horiz to make your pigeon-cursor change direction.

Move the cursor to the Statue's head like in the bottom picture at the right.

Click to paste another bird, this time on the Statue's head.

Next, we'll remove our initial pigeon, since we don't want it as part of our object.

Use the scroll bars to bring the initial pigeon back into the Drawing Area.



Click the Erase tool.

Put the “eraser” end of the cursor on each dot of the test bird, and click to remove that dot.

SAVING YOUR WORK

Now we’re ready to save our work for later use. We don’t save just the Statue. We must save the Statue as part of a new Object Set.

Open the File menu and choose Save As..., then choose Working Object Group. This will open a standard dialog box for saving files.

Let’s give this object set the name “Tutorial.” Type the word “Tutorial” in the file name box.



ADDING PANACHE WITH COLOR CYCLING

SimCity 2000 uses color cycling to create a sense of motion and activity. Traffic, tornadoes, water flow, smoke from factories—even the drive-in movie—are just a few of the objects that use color cycling. See Appendix 1 for more information on color cycling.

We're going to do something a little more modest. We'll use color cycling to give the pedestal of our pigeon-covered Statue some eye-catching lights. Here's what we're going to do:

- Zoom in to the base of the statue
- Choose a color cycle pattern
- Draw our flashing lights

Click the Zoom In tool to get as close in as you can, then zoom out one level.

Use the Drawing Area scroll bars to bring the left side of the pedestal to the center of the Drawing Area as pictured.

The numbered squares in the picture above are where we will add our color-cycling lights.

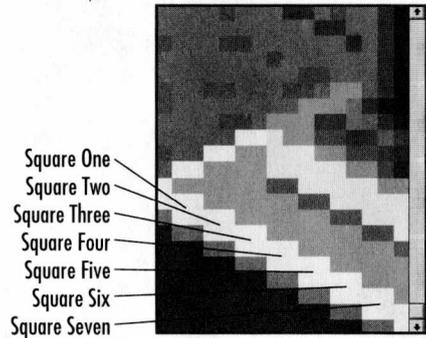
First, let's change our brush size.

Click the next-to-smallest brush size, then click the Free Drawing tool.

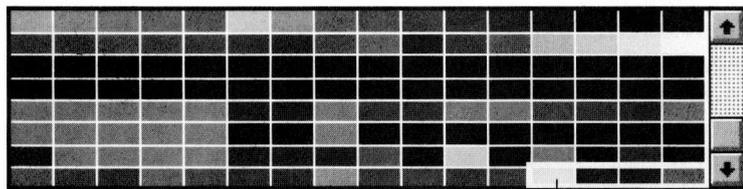
Note: Since our brush size is larger, it might be a tad more difficult to position the brush properly. Use the Undo option from the Edit menu if you put a dot in the wrong place.

Now let's get our color cycle pattern. The color cycles are all gathered together at the bottom of the Color Palette.

Scroll the color palette until you see the color cycle patterns.



Click the first color of the four-color “red-yellow-brown-brown” cycle pattern.



The red-yellow-brown-brown cycle

Place the brush in the center of square one and click to place your first flashing dot.

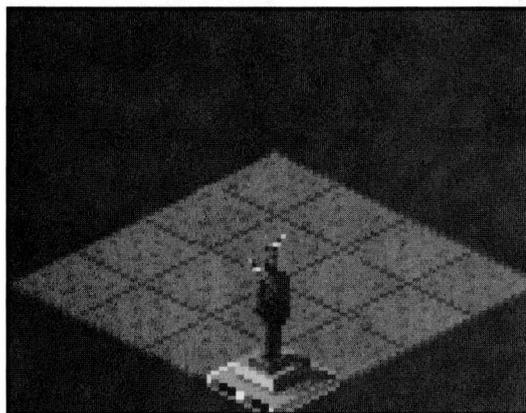
Click the second color of the pattern in the Color Cycle Display.

Click on square two to place your second flashing dot.

Click the third color of the pattern, and place this color in square three.

Choose the fourth color of the pattern, and put it in square four.

We're at the end of the pattern, but we still have more squares to work on. To make a cycle which is longer than the length of the pattern, start the pattern over with the first color.



Click the *first* color of the pattern, and place this color in square five.

Put the second color of the pattern in the square six.

Finally, put the third color of the pattern in square seven.

Now we have a lovely set of running lights along the base of the statue.

All we need to do now is save our work and we're ready for the next step.

Open the File menu and select Save, and then select Working Object Set.



Using Pick & Copy

In this part of the tutorial, we'll:

- Start the Pick & Copy utility.
- Pick some objects that have interesting graphics.
- Copy these graphics to another object set which we will use in the SimCity 2000 game.

Click the Pick & Copy window grow box to expand Pick & Copy to the full size of your screen.

The Statue we modified is already in the Working set. In order to embellish it further, we'll use some graphics from the Future graphics set.

Open the File menu and select Load....

Select the Source Object Set submenu item.

Choose the Future object set.

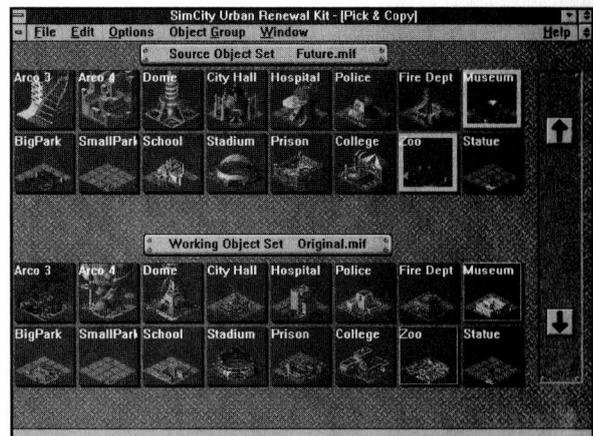
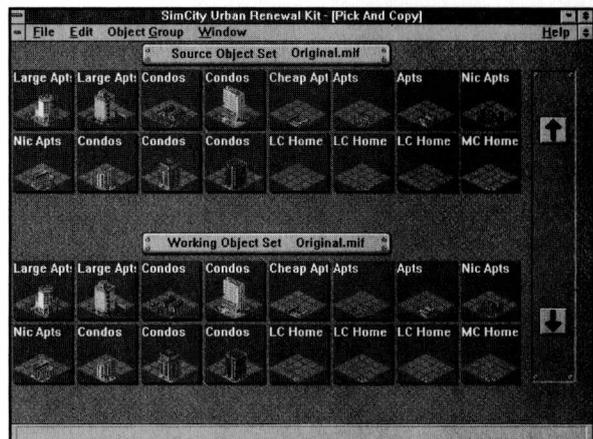
At the top of the screen are objects from the source object set (Future), and at the bottom are the equivalent objects of the Working Object Set.

Our statue would look best if it were surrounded with a few municipal buildings, such as a city hall and a museum. These buildings are in the Specials object group.

Open the Object Group menu and select Specials.

Click either Selector Arrow until the Zoo and Museum appear in the Selectors.

While holding down your Ctrl key, click on the Museum, then the Zoo object in the Source Object Set.



The Zoo and Museum objects in both the Source and the Working Selectors are now active. Now we'll build our Working set by adding these new graphics to it.

Click and hold your mouse, and drag the selected objects to the Working Object selector.

As soon as your mouse cursor enters the Working Object Set selector, the Working objects which correspond to the Source objects you selected will highlight. Don't worry about lining up the specific Source objects with the Working objects. SCURK will make sure that the graphics are put in their proper place.

Release the mouse button to finalize the copying.

You'll be asked to confirm that you want to copy the Museum and Zoo tiles. Click the OK button. The future graphics we selected are now a part of our working set. Of course, since we have made a change to our Working set, we should save our work again.

Open the File menu and select Save, then select Working Object Set.

When prompted, choose Yes to Overwrite existing file.

That's all there is to it. Your new Statue can now be displayed the next time you start SimCity 2000. But why wait? Let's put them to use in Place & Print.

Open the Windows menu and select Place & Print.



Using Place & Print

In this part of the tutorial, we'll:

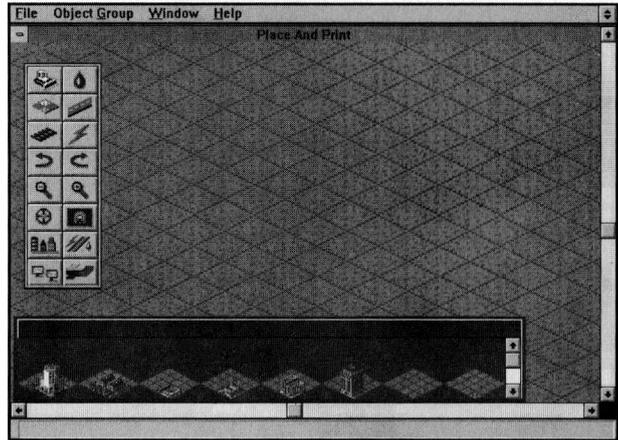
- Start the Place & Print utility,
- Build a tiny city that will display our modified Statue and the objects we copied,
- Save our work as a city that can be loaded into SimCity 2000, and
- Print it out.

We're now looking at a new, blank city.

First, we'll put down some roads—just the same as you would in SimCity 2000.

Click the Road tool in the toolbox.

Place some roads in the Work Area.



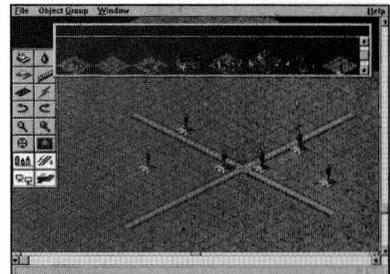
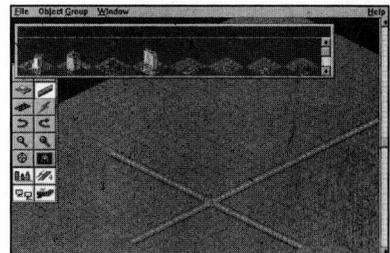
Now we'll use the Object Selector at the bottom of the screen to place some objects. Let's get to the Specials section and place some of those futuristic buildings.

Open the Object Group menu and select Specials.

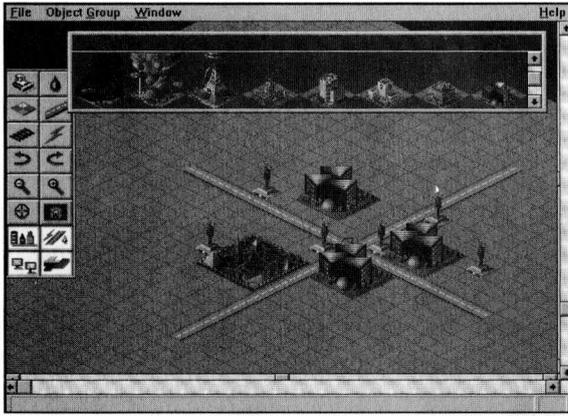
Click on either of the Object Selector arrows until we see our statue and the buildings we have copied.

Click on the Statue to select it, then place a few in the Work Area along one of the roads.

Now let's make them the centerpiece of a plaza of the future.



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Click on the Museum object and place one or two near the statue.

Click on the Zoo object and place it near the museums.

That's all there is to using the Object Selector: select the object group, select the object, place the object in the Work Area. Simple.

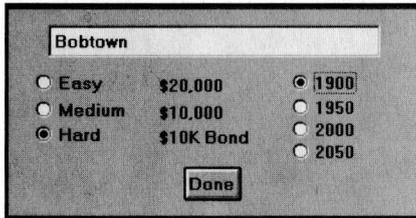
Obviously, this isn't much of a city, so if you want to spend some time adding roads, modifying the terrain with the

Bulldozer tool and placing more objects, go right ahead. We'll wait here for you. Come on back when you're ready to save the city to disk and print it out.

SAVING YOUR CITY

Now to save the city.

Open the File menu and select Save City.



This dialog box will open:

Type in a name for your city in the city name text box.

Click on your choice of Easy/Medium/Hard and the Year.

Click on the Done button.

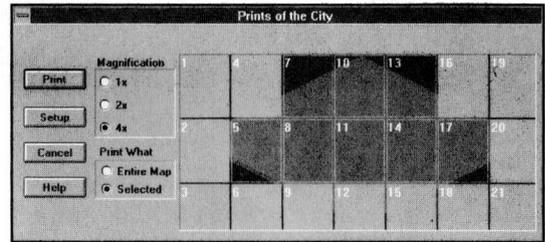
Our City is now saved and ready to load into SimCity 2000. Now let's print it out.

Note: If you don't have a printer hooked up to your computer, you'll want to skip this part and jump ahead to the Farewell section.

Open the File menu and select Print City... to open the Prints of the City dialog box.



This opens the print dialog box. You can print your city in three sizes, matching the three zoom levels in SimCity 2000. The Large size (4x) is so big, it takes over 20 pages to print the whole city in the sharpest detail. In Medium (2x), you can print your whole city in eight pages, and Small (1x) will fill two pages, but you won't see very much detail.



Luckily, you don't have to print the whole city. In fact, the city we have made is small enough to fit on a few pages in the Large size. Let's print it.

Click the 4x Magnification option.

Click on the Selected button under "Print What."

It may be a little hard to determine where your buildings are on the city map. If you've put your Plaza near the center of the map, you should turn "off" the pages near the edge so you don't have to wait for them to print.

Click the Print button.

Printing will begin. This may take a while, depending on your computer, your printer and the complexity of your city. If you want to halt the printing process, press the Esc key (or Command (.) on the Macintosh).

Printing one page is nice for a small city, but printing a larger area is also easy. Just click and drag the page-sized cursor across the part of the city you want to print. The pages will be marked and numbered. Don't worry about overshooting the map—any pages that are off the map won't be printed.

Or if you want to print the whole city, don't bother with the map or the cursor at all. Just click on the Entire Map option.

Farewell

That's it for the tutorial. You should now be able to use SCURK and customize cities to your heart's content. But if you want more help or details, check out the rest of this manual. It explains every button, tool and function, and has a lot of helpful hints and tips that will make your time with SCURK more fun and more efficient.

Happy SCURKing!



Appendix: Colors, the Palette and Color Cycling

These days, Macintosh, DOS and Windows all support thousands, if not millions of possible colors, but these systems usually limit the number of those colors that can appear on the screen at a time. Most computer games these days support either 16 or 256 simultaneous colors.

The more colors you want to display at a time, the more memory it requires to hold that information—that's memory in RAM, memory on the hard disk, and memory on the floppy disks [or CD-ROMs] that the program comes on. In addition to memory requirements (and the cost of the extra disk space), displaying thousands or millions of colors at once slows down the computer, because it has to move so much more information around in memory and draw it on the screen.

The *palette* is the set of all the colors available in a particular program; it is chosen by the art director, with input from the programmers. You can think of it as an electronic version of the painter's palette, where the artist mixes colors. What it actually is, is a lookup table for the computer. It has one column of numbers, from 0 to 15 for a 16-color palette or from 0 to 255 in a 256-color palette. In another column are the instructions for mixing that color out of red, green, and blue (RGB).

Programmers don't have to spell out the RGB formula for each pixel (dot) drawn on the screen, they just say make this pixel color 127, and the computer will look up the color on the palette.

The palette can be customized for each program and changed while a program is running. If you change a color definition in the palette, say change color 192 from blue to red, then every instance of color 192 on the screen will change from blue to red. This change happens very quickly—much more quickly than having the computer search every dot to find out which ones are color 192 and changing them to another color—and takes very little CPU time, so it doesn't slow down the action in the game.

Color cycling is a technique that takes advantage of the power, speed and flexibility of changing color definitions in the palette to create effects or animations. SimCity 2000 uses color cycling to create, among other things, the animations of traffic on the road, the smoke from the factory smokestacks and the flashing lights on the title screen.



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