Editing the Cell Plane

In general, it is much too time-consuming and complicated to give a whole cell matrix a certain shape cell by cell. This is easier to achieve by using instructions of your CARP program or by means of menu items of the state control button (see 8 in figure 2.7). Nevertheless, it is sometimes sufficient to initialize the whole cell matrix with an identical value for each cell by means of the state control button and to alter certain cell states 'manually'.

* Initialize the cell matrix by clicking the state control button and choosing *Single Value 0*. The cell matrix will adopt a uniform color.
* Click the left mouse button on a cell you want to change.
The cell adopts the next value that is inside the range of possible different states (depending on the Zet value of your CARP program). The change of the cell state is mostly (depending on the chosen color palette) revealed by a different color.
* Click the right mouse button on the same cell.
The cell will adopt its genuine state.

Note: Each click on the cell will make it adopt the next state of its defined <n> states. If e.g. only two states are defined the cell state will toggle between these two states.
Additonally, you may also edit the cells of the STATE window if the state of each cell is expressed by figures (number display mode). This is a good means to control the mouse clicks.
Clicks on the right mouse key decrement the state value, clicks on the left mouse key increment the state value.

Changing the Color Mapping for one Cell

There are about 230 colors defined by a triple of red, green and blue values that can be used to characterize a certain cell state. Changing the color mapping for a cell is done in two steps.

* Click on one cell of the kind whose color mapping you want to change. Then click the color customizing button (button 6 in figure 2.7).
    µ §

    Figure 2.9 'Colors' selection box

A box pops up with three slider scroll bars representing the colors red, green and blue (see 1 in figure 2.9) and, within a white area, statements about the current cell and its corresponding color palette index to be changed (see 2 in figure 2.9).
* Click on one of the three slider scroll bars and drag it to the left or to the right.
The corresponding color control panel on the right side of the box changes its color very quickly, whereas the other two smaller control panels remain unchanged. The decimal and hexadecimal value for the color being changed is also displayed. The summarizing color panel in the bottom right corner changes proportionally to the changes of its component colors (see 3 in figure 2.9).
* Change all three colors until you find a color value you wish to save. Click the *OK* button.
All cells of this kind are now assigned to the changed color mapping value and show their new color in the STATE window.

Note: Changes of a single color mapping or a whole color palette (the sum of all color mappings) are only valid within a certain model. The CARP language offers additional ways to define color palette settings (see pages 50 and 51). In this case, the color selection box may be of use to get the defining decimal or hexadecimal values of an adequate color in a handy way.

2.8 Using the Online Help System

CAT provides an online help system with hypertext features.

* Click the question mark in the menu bar (see 1 in figure 2.10).
µ §

   Figure 2.10 Access to the help system

A menu pops up containing the items *Help index, Help on Help, About* (see figure 2.10).
* Select *Help index*.
A window *CAT Helpsystem* comes up, containing an overview of all provided keywords. Any colored keyword can be activated by a mouse click and leads you to a short information text. To return to the point of the help system where you started from
* click the *Contents* or *Back* button of the Help window.
You find yourself back on the overview page of the help system. To leave the helpsystem,
* click either the close button in the top left corner of the "CAT Helpsystem" window or use the *Quit* command of the *File* menu.
The "CAT Helpsystem" window will close.

Note: To activate the online help system you can alternatively press the <F1> key. You will then come directly to the overview page of the help system or to the page which was displayed during the previous interrogation of the help system.
To get help information on the help system itself and its usage, click the question mark (see button 1 in figure 2.9) and select *Help on Help*.
If you want to print text from the online manual select *Print* from the *File* menu.

2.9 Leaving CAT

CAT can be left if no code of any event is executed. To leave

* doubleclick the close button in the top left corner of the "CAT " window (see 1 in figure 3.1).
The "CAT" window will close.

Note: Alternatively, you can select *Close* in the system menu that pops up if you click the close button (see 1 in figure 2.10) or you can select *Exit* in menu *File* (see item 3 in figure 2.10). If you want to quit CAT only temporarily, you can iconify the CAT program by selecting *Symbol* in the system menu. If the next application you want to use is rather memory-consuming, it is advisable to quit CAT completely.