COCOTEX

FOR

◤VIATEL ®

VIDEOTEX TERMINAL EMULATOR

BY:
RON WRIGHT © 1985

FOR:
RADIO SHACK COLOUR COMPUTER
TAPE OR DISK
16K, 32K or 64K MODELS

VIATEL IS THE NEW INTERACTIVE INFORMATION
SERVICE FROM TELECOM AUSTRALIA.

THIS VIDEOTEX SERVICE OPERATES OVER
EXISTING TELEPHONE LINES AT 1200/75 BAUD.

VIATEL IS PROVIDED NATIONALLY AT A UNIFORM
CHARGE.

----- IMPORTANT -----

Hundreds of hours of work has been involved in
creating COCOTEX. If you have purchased this program
you will be supporting the development of future
versions with more features. These new versions will be
available to you at a minimal update cost. To allow
us to support you please return your REGISTRATION form
as soon as possible with any suggestions for
improvments to COCOTEX and this documentation.

.

100049

COCOTEX SERIAL NUMBER

WARRANTY INFORMATION

Great care was taken to ensure that this program
operates as advertised, but we will not be held
responsible for damages incidental to its use in a
users system.

CONTENTS

INTRODUCTION:

     COCOTEX is a Colour Computer (COCO) software
package which will bring the new and exciting world of
VIDEOTEX into your home. When used in conjuction with a
1200/75 BAUD Modem this package will turn your COCO
into a powerful, easy to use terminal.

```
-------------        -----------        -------------
:            :        :         :        :           :
:   COCO     : RS232  : 1200/75 :        :           :
:   plus     :--------:  baud   :--------: Telephone :
:  COCOTEX   : cable  :  Modem  :        :           :
:            :        :         :        :           :
-------------        -----------        -------------
```

FEATURES:

     1: 40 character 24 line display.

     2: UPPER and lower case display.

     3: Full support of graphics characters.
        (Black and White only)

     4: Contiguous and Separated Mosaics supported.

     5: Full cursor control support.

     6: Auto ID send facilities.

     7: Single and Double height characters supported.

     8: Flashing character supported.

     9: Conceal and Reveal mode supported.

     10: Hold and Release Mosaics supported.

     11: Page store and recall facility.

     12: Uses built in RS232 port.

     13: Even parity error checking supported.

     14: Single key controls supported.

     15: Support for SMARTMODEM with auto dialing.

COCOTEX Videotex terminal emulator (C) 1985

COCOTEX configuration:

   COCOTEX is supplied on a tape in the form of a
configuration program. To LOAD this program you will
need to use the following basic command.

                    CLOADM "CONFIG"

   When the configuration program has finished loading
the menu below should appear on the screen.

```
        *******************************
        *                             *
        *          COCOTEX            *
        *                             *
        *     CONFIGURATION PROGRAM   *
        *                             *
        *     BY: RON WRIGHT (C) 1985 *
        *                             *
        *******************************

            PLEASE HIT A KEY TO START
```

   The purpose of the configuration program is to allow
you to produce a customized version of COCOTEX. You
have the option of saving this configured version on
DISK or TAPE.

****

NOTE: YOU WILL REQUIRE A BLANK TAPE OR A FORMATTED DISK
      TO SAVE THE THE CONFIGURED VERSION OF COCOTEX.

****

Display selection option:

    This option will allow you to select the type of
display COCOTEX will use. The normal display will give
you a white screen with black characters.

```
******************************
*                            *
*     SELECT DISPLAY TYPE     *
*                            *
******************************
```

            1 = NORMAL DISPLAY.
            2 = INVERTED DISPLAY.

            PLEASE SELECT 1 OR 2

Auto ID setup:

    Cocotex supports the automatic sending of your
users ID code. This code is a 10 digit number in the
case of VIATEL, the menu below will appear and allow
you to enter your ID.

```
******************************
*                            *
*     AUTO ID MODE SETUP      *
*                            *
*     ----------------        *
*                            *
******************************
```

            PLEASE ENTER ID
        USE <ENTER> TO EXIT ID SETUP

Selecting Modem type:

        This function will allow you to select the type of
modem   you   would   like to use. The normal modem is one
that   has   a   1200/75 baud option. The Smartmodem has a
speed   conversion   funtion which requires COCOTEX to be
setup for 1200 baud in both directions.

```
        ********************************
        *                              *
        *      SELECT MODEM TYPE       *
        *                              *
        ********************************

            1 = NORMAL 1200/75 BAUD.
            2 = SMART MODEM 1200/1200.

            PLEASE SELECT 1 OR 2
```

Auto Dial setup for Smartmodem:

        For   Smartmodems   that   support the HAYES protocol
this   fuction will setup the auto dial data. The number
to use in the case of VIATEL is 01955.

```
        ********************************
        *                              *
        *      AUTO DIAL MODE SETUP    *
        *                              *
        *      ----------------        *
        *                              *
        ********************************

        PLEASE ENTER TELEPHONE NUMBER

          USE A COMMA TO ADD A PAUSE
          USE <ENTER> TO EXIT SETUP.
```

COCOTEX Videotex terminal emulator (C) 1985

Selecting program name:

     This   feature   will   allow   you   to   name   your
configured   version   of COCOTEX so its name can reflect
the way it has been configured.

```
******************************
*                            *
*     PROGRAM NAME SETUP      *
*                            *
*        --------            *
*                            *
******************************
```

          PLEASE ENTER PROGRAM NAME
          USE <ENTER> TO EXIT SETUP

Saving configured COCOTEX:

     Now   you   have   configured your version of COCOTEX
you can now save this version on a TAPE or DISK.

```
******************************
*                            *
*     TAPE OR DISK SAVE       *
*                            *
******************************
```

          1 = SAVE COCOTEX TO TAPE.
          2 = SAVE COCOTEX TO DISK.

          PLEASE SELECT 1 OR 2

     You   will receive several prompt messages to guide
you though the saving process.

.

After the configured version of COCOTEX has been
saved the following menu will be displayed. You now
have an option of configuring another version or
returning to basic.

```
*******************************
*                             *
*  CONFIGURE ANOTHER VERSION  *
*                             *
*      OR EXIT TO BASIC.      *
*                             *
*******************************

  1 = CONFIGURE ANOTHER VERSION.
  2 =    **** EXIT TO BASIC ****

       PLEASE SELECT 1 OR 2
```

Before control is returned to basic this exit
message will be displayed.

```
*******************************
*                             *
*   THANK YOU FOR PURCHASING  *
*           COCOTEX           *
*  YOU ARE NOW READY TO ENTER *
*       THE EXCITING WORLD    *
*             VIDEOTEX        *
*                             *
*   BY: RON WRIGHT (C) 1985   *
*                             *
*******************************

     PLEASE HIT A KEY TO EXIT
```

COCO TO MODEM CONNECTION:

Due to the limited implemention of an RS232
serial communications port on the COCO it was not
possible to implement handshaking. This means
that your Modem must be configured to operate
with data leads only. Below is the typical
interconnection as a guide. But please consult
your Modem handbook because every modem is
slightly different.

INTERCONNECTIONS REQUIRED:

     1. COCO RS232 data input............pins 1 and 2
       to Modem data output...................pin 3

     2. COCO RS232 data output.................pin 4
       to Modem backward channel input........pin 14

     3. COCO RS232 common......................pin 3
       to Modem ground........................pin 7

```
COCO RS232                                      MODEM

pin 1 o----------------------------------------o pin  3
and 2 o

pin 4 o----------------------------------------o pin 14

pin 3 o----------------------------------------o pin  7

                              see note -o pin  4

                              see note -o pin  6
                                        o and 11
```

NOTES:

The forward channel must be disabled by pulling RTS pin
4 on modem D25 low by connecting it to pin 7.

The 75 baud modem backward channel must be enabled by
pulling BRTS pin 11 on modem D25 high by connecting it
to CTS pin 6 with a 10k resister.

Pin 1 & 2 of the COCO RS232 port are connected together
to form an interrupt driven input.

Coco to Smartmodem connections:

     As the Smartmodem does a speed conversion the need
to   connect   to   the   backward channel is not required.
COCOTEX   will   send   out   data   at   1200 baud using the
forward channel and let the modem convert the speed.

Interconnection required:

COCO RS232   SMARTMODEM

pin 1 o---------------------------------------o pin   3
and 2 o

pin 4 o---------------------------------------o pin   2

pin 3 o---------------------------------------o pin   7

                              see note   --o pin   4
                                          o and   5

                              see note   --o pin   6
                                          o and 20

NOTES:

RTS   and CTS must be connected together and DSR and DTR
must   be   connected   to   together   to setup the correct
modem handshacking.

COCOTEX Videotex terminal emulator (C) 1985

LOADING COCOTEX:

This machine code program has been designed to run
on the 16K, 32K or 64K models of the COCO. When COCOTEX
is   used   on   the   16K model only a one storage page is
available compared to ten on the other models.

To load COCOTEX from tape use.........CLOADM "FILENAME"
                from disk use..........LOADM "FILENAME"

Both   the   disk   and tape versions of COCOTEX will
start   running   automatically   once loaded. A face page
using   a   hires graphics screen should appear. The face
page   of   COCOTEX contains a number of important pieces
of information.

VERSION NUMBER:

The version number of your COCOTEX program will be
displayed   on   this   page it will be worth noting which
version you have for updating purposes.

CONFIGURATION:

The   lower   part   of   the   screen   will   display a
section   headed CONFIGURATION. This area should reflect
the   way   you have configured COCOTEX so please spend a
few moments to check to see if it is correct.

ONLINE CONNECTION PROMPT:

At   the   bottom   of   the   page will be displayed a
prompt   message   requesting the <ENTER> key be pressed.
Doing   this   will place COCOTEX online ready to display
incoming data from the modem.

COCOTEX Videotex terminal emulator (C) 1985

HOW TO CONNECT TO VIATEL:

1. Equipment required for setup.

    a. Connect the RS232 output of your COCO to your
    Modem using our "COCO to modem connection guide".

    b. Plug your modem into the phone socket.

    c. Place your modem offline and configure it for
    1200/75 baud operation.

2. Load your COCOTEX program.

    a. Once loaded COCOTEX will display a prompt
    message requesting connection. To place COCOTEX
    online you must press the <ENTER> key.

    b. If you have a "SMARTMODEM" with an auto dial
    feature an auto dial request will be issued. A
    flashing online waiting message will then appear.

3. Connection with a SMARTMODEM.

    If you have a SMARTMODEM with an auto dial feature
    just sit back and wait for the connection to be
    made. If the connection fails, try again, by
    placing your terminal offline then online.

4. Connection using a normal MODEM.

    With your modem in the offline position, lift up
    the phone and dial VIATEL on 01955. When you
    receive a modem tone, place your modem ONLINE.

5. Completing the VIATEL connection.

    When your connection is made a COM message should
    appear at the top of the screen followed by
    severial prompting messages.

    a. A request for your ten digit ID number would
    normally be received, but because of the auto ID
    sending feature of COCOTEX, only part of this
    message will appear.

    b. You will then receive a request for your four
    character password. Once your password has been
    entered and excepted you will receive a WELCOME
    message from VIATEL.

    **** YOU ARE NOW READY TO EXPLORE VIATEL ****

COCOTEX Videotex terminal emulator (C) 1985

VIATEL HINTS AND TIPS

1. Special Keys.

 The main keys that you will be using to access
information on VIATEL will be the numbers 0-9 and the
control keys * and #. To make these keys easier to
access the arrow keys have been redefined.

        LEFT arrow = *   RIGHT arrow = #

2. Gone the wrong way.

If you find yourself entering an area of the database
you didn't want to access you can use *# to backup or
*0# to exit back to the main menu.

3. Finding your way again.

With the large amount of information on VIATEL, you
will find yourself discovering new information that
interests you. To save you the time and effort in the
future make a note of all your most commonly used page
numbers.

4. Commonly used page numbers.

VIATELS main index .... *0#

Correcting typing errors...................... **

Whats NEW..................................... *123#

Alphabetical Subject index.................... *13#

Redisplay the current page.................... *00

Return to previous page, limited to 3......... *#

Ace Videotex Games............................ *414#

Svs Games..................................... *5001#

Sending greeting cards........................ *1003#

Sending a message to VIATEL................... *1052#

Mailbox message sending....................... *103#

Checking your current VIATEL bill............. *92#

Exit VIATEL and check for new mail............ *90#

COCOTEX Videotex terminal emulator (C) 1985

SPECIAL KEYBOARD FUNCTIONS:

        To   make   the   COCO   easier   to use as a VIDEOTEX
        terminal several keys have been redefined.

```
-----------
:         :     LEFT ARROW becomes an *
:    *    :     character used to select a new page.
:         :
-----------
```

```
-----------
:         :     RIGHT ARROW becomes an #
:    #    :     character used to terminate request.
:         :
-----------
```

```
-----------
:         :     CLEAR becomes the REVEAL key
: REVEAL  :     control key reveals CONCEALED lines.
:         :
-----------
```

```
-----------
:         :     BREAK becomes an ESC
:   ESC   :     character used for display control.
:         :
-----------
```

```
-----------
:         :     SHIFT BREAK
: ON/OFF  :     ON/OFF LINE Toggle.
:         :
-----------
```

```
-----------
:         :     UP ARROW becomes STORE
:  STORE  :     used to store the displayed page.
:         :
-----------
```

```
-----------
:         :     DOWN ARROW becomes RECALL
: RECALL  :     used to recall stored pages.
:         :     The program prompts for page number 0-9
-----------
```

SPECIAL KEYBOARD FUNCTIONS CONTINUED:

```
-----------
:         :    SHIFT ZERO
:  CAPS   :    used to select / release caps lock.
:         :
-----------
```

CURSOR CONTROL KEYS:

```
-----------
!  SHIFT  !
!   UP    !    CURSOR UP CHARACTER.
!  ARROW  !
-----------
```

```
-----------
:  SHIFT  :
:  DOWN   :    CURSOR DOWN CHARACTER.
:  ARROW  :
-----------
```

```
-----------
:  SHIFT  :
:  LEFT   :    CURSOR LEFT CHARACTER.
:  ARROW  :
-----------
```

```
-----------
:  SHIFT  :
:  RIGHT  :    CURSOR RIGHT CHARACTER.
:  ARROW  :
-----------
```

```
-----------
:  SHIFT  :
:  CLEAR  :    CLEAR SCREEN CHARACTER.
:         :
-----------
```

```
-----------
:  SHIFT  :
:   @     :    CURSOR HOME CHARACTER.
:         :
-----------
```

COCOTEX LIMITATIONS:

        Due to the hardware limitations of the COCO it has
been   difficult   to   achieve   a   totally   interactive
terminal. This   is   due to the high software overheads
involved in   inputting and outputting characters. The
current version of COCOTEX has a slow keyboard response
which   can   cause   characters   to   be lost if data is
entered to quickly.

                    SUPPORTING YOU IN THE FUTURE

        I hope   this   version   of COCOTEX will serve you
well, I will be looking forward to hearing from you
with   your   comments. There are so many things that I
would like to see in future versions such as Disk and
Tape   save, Printer dumps and Down load software
support, any suggestions will be welcomed.

****

                          HAVE FUN

        DISCOVERING THE NEW INFORMATION REVOLUTION.

****