

Enhancing Informix 4GL with TERMCAP Settings by Lester Knutsen

September 29, 2022, 2:00 pm EDT

2022 Informix Tech Talks by the IIUG

We have launched a new channel on YouTube for Informix Users! Please subscribe to our channel on YouTube to stay informed. This will be a place for Informix how-to videos. Subscribe at: <https://www.youtube.com/c/InformixTechTalksbytheIIUG>

International Informix User Group

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Informix Tech Talks by the IIUG

Enhancing Informix 4GL with TERMCAP Settings by Lester Knutsen

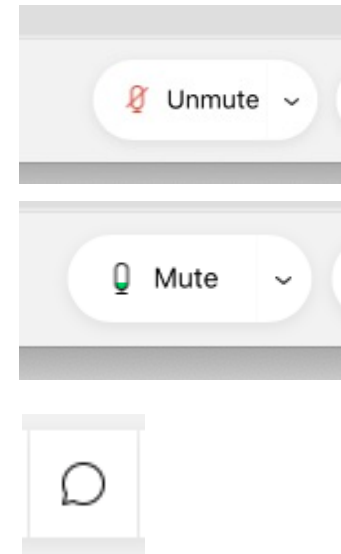
Date: Thursday, September 29, 2022, 2:00 pm EDT

Description: This Tech Talk is a lab on how to use the Unix Termcap to improve the appearance and functionality of your Informix 4GL Programs. Informix 4GL uses the Unix TERMCAP file to display colors, window line boxes, and function keys. I will explore the lab from my Informix 4GL training class that shows how to improve the quality of your 4GL screen and window display, add colors, and correctly trap function keys. I will demonstrate and provide code for a 4GL program to test your TERMCAP file.

Please register - <https://www.iiug.org/en/services/next-webcast/>

Webcast Guidelines

- **The Webcast is pre-recorded.**
The replay and slides will be available on the IIUG Website
- **Please Mute your line.**
Background sounds will distract everyone
- **Use the Chat Button** to ask questions



Enhancing Informix 4GL with TERMCAP Settings

by Lester Knutsen

```
+-----+
|      Terminal Color, Graphics and Function key Test      |
|Line 1 - reverse|
|Line 2 - bold|
|Line 3 - dim|
|Line 4 - underline|
|Line 5 - white|
|Line 6 - yellow|
|Line 7 - magenta|
|Line 8 - red|
|Line 9 - cyan|
|Line 10 - green|
|Line 11 - blue|
|Line 12 - black|
|
|Press a Function Key [F1-F10] or Q to quit|
+-----+
```

```
Terminal Color, Graphics and Function key Test
Line 1 - reverse
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Line 6 - yellow
Line 7 - magenta
Line 8 - red
Line 9 - cyan
Line 10 - green
Line 11 - blue

Press a Function Key [F1-F10] or Q to quit
```

*Same Program, two different TERMCAP files.
Do your 4GL Programs display lines, color and do the function keys work?*

Advanced DataTools

Lab from my 4GL Course

The Lab includes:

- 4GL Example program
 - threewindows.4gl
- 4GL Program to Test TERMCAP
 - termtest.4gl
- Example TERMCAP File
 - termcap.4glclass
- Lab Instructions
 - 08 lab - Informix 4GL TERM Setting.pdf

Informix 4GL uses the **TERMCAP** file for Display Appearance and Attributes

- See the release notes in `$INFORMIXDIR/release`
- Environment Variables
 - TERM
 - TERMCAP

TERMCAP Capabilities

- Screen Display
- Color Settings
- Line Drawing Capabilities
- Function Keys

Example TERMCAP Problem

[illegible]

Example TERMCAP Problem

```

Terminal Color, Graphics and Function key Test
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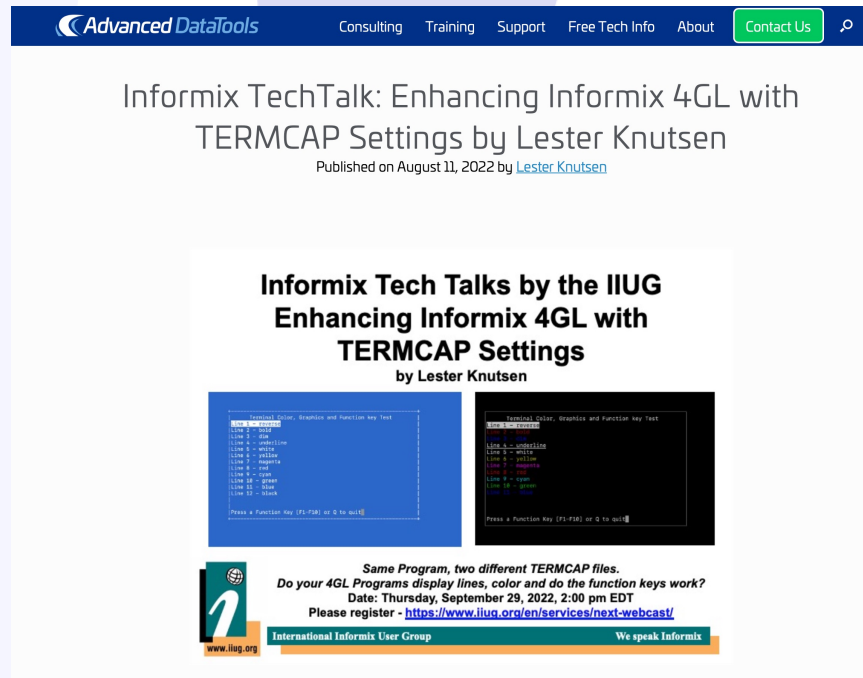
Example TERMCAP File

```
#####  
## Module: @(#)termcap version: 1.0      Date: 10/1/2021  
## Author: Lester Knutsen  Contact: lester@advancedatools.com  
## Copyright: Advanced DataTools Corporation - 2021  
## Description: Informix 4GL for Developers Training Class Example Lab  
## ZA = COLOR Settings  
## f0-f9 = Function Key Settings  
## gs = Graphic Draw boxes using ansi character set  
#####  
## Modified xterm - This is my current working one.  
v1|xterm|vt100|DEC vt100:\  
    :bs:am:xn:xv:pt:cd=\E[J:ce=2\E[K:cl=45\E[H\E[J:\  
    :cs=%i\E[%d;%dr:cm=%i\E[%d;%dH:co#80:li#24:\  
    :Hi=\E=:Hf=>\E>:HI=^|:Po=\E1:Pe=\E2:\  
    :bc=\E[D:do=\E[B:nd=\E[C:sr=\EM:up=\E[A:so=\E[7m:se=\E[m:\  
    :ku=\E[A:kd=\E[B:kr=\E[C:kl=\E[D:kh=\E[H:us=\E[4m:ue=\E[0m:\  
    :KA=\EOu:KU=\EOM:KB=\EOv:KC=\EOt:\  
    :Ki=\EOr:KT=\EOl:KY=\EOS:KZ=\EOq:\  
    :Kd=\E0m:k6=\EOs:\  
    :sc=\E7:rc=\E8:\  
# function keys F1 (k0) to F10 (k9) \  
:k0=\EOP:k1=\EOQ:k2=\EOR:k3=\EOS:k4=\E[15~:  
:k5=\E[17~:k6=\E[18~:k7=\E[19~:k8=\E[20~:k9=\E[21~:\  
# capability to display graphic boxes using the ansi character set \  
:gs=\E(0:ge=\E(B:gb=lmkjxntuvw:\  
# informix 4gl color support - the next line is one very long line \  
:ZA=\E[0%?%p1%{0}%=%t;37%e%p1%{1}%=%t;33%e%p1%{2}%=%t;35%e%p1%{3}%=%t;31%e%p1%{4}%=%t;36%e%p1%{5}%=%t;32%e%p1%{6}%=%t;34%e%p1%{7}%=%t;30%;%?%p2%t;7%;%?%p3%t;5%;%?%p4%t;4%;m
```

Downloads

- Source Code, Slides, Lab and Example Programs will be available at:

<https://advanceddatatools.com/presentation/informix-techtalk-enhancing-informix-4gl-with-termcap-settings-by-lester-knutsen/>



The screenshot shows the Advanced DataTools website. The header includes the logo and navigation links: Consulting, Training, Support, Free Tech Info, About, and a green Contact Us button. The main content area features the title "Informix TechTalk: Enhancing Informix 4GL with TERMCAP Settings by Lester Knutsen" and a publication date of August 11, 2022. Below this is a promotional graphic for "Informix Tech Talks by the IIUG" with the same title and author. The graphic includes two side-by-side terminal window images: the left one has a blue background with white text, and the right one has a black background with green and white text. Below the images, text reads: "Same Program, two different TERMCAP files. Do your 4GL Programs display lines, color and do the function keys work? Date: Thursday, September 29, 2022, 2:00 pm EDT. Please register - <https://www.iiug.org/en/services/next-webcast/>". At the bottom of the graphic are the IIUG logo, the text "International Informix User Group", and the slogan "We speak Informix".

Thank You

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