

the compiler will treat the source code as if it were written as:

```
01 s1.    03 ef1 entry-field        border-color rgb x#dae1e5
,        border-width (0 0 2 0)    line 2 col 2 size 10.    03 ef2 entry-field        border-
color rgb x#dae1e5,        border-width (0 0 2 0)    line 2 col 2 size 10.    03 ef3 entry-
field        border-color rgb x#dae1e5,        border-width (0 0 2 0)    line 2 col 2 size 10
.    03 pb1 push-button        flat, background-color -14675438        line 5 col 10 size 10
        title "Save" exception-value 1.
```

Code injection also affects controls created with single display statement, so that:

```
display push-button        line 5 col 25 size 10        title "End" exception-
value 27        handle in h-pb.
```

becomes:

```
display push-button flat, background-color -14675438        line 5 col 25 size 10
        title "End" exception-value 27        handle in h-pb.
```

With code injection, you can completely change the look of your application and modernize your screens without touching the original source code.

NOTE: Code injection works by inserting the text value of the configuration variables into the source code where controls are declared or created.

This means that any syntax errors in the configuration variables will result in compilation errors.

As an example, the following screen is a standard screen with slightly dated looking controls and window:

CUSTOMER MAINTENANCE

Male
 Female

> Customer maintenance

By compiling with the following compiler configuration:

```

# Compiler.regex to remove the 3D and "ERASE" styles when displaying the window
iscobol.compiler.regex="( ?i)( 3-D,)" ""
                                "( ?i)( 3-D)" ""
                                "( ?i)( ERASE,)" ""
                                "( ?i)( ERASE)" ""
#### code injection for controls #### # add the gradient color on all windows
iscobol.compiler.gui.window.defaults= gradient-color-1 rgb x#FFFFFF gradient-orientation gradient-northeast-to-southwest
nt-color-2 rgb x#F2F5F9
# add the transparent style to all labels, check-boxes and radio-buttons
iscobol.compiler.gui.label.defaults= transparent
iscobol.compiler.gui.check_box.defaults= transparent
iscobol.compiler.gui.radio_button.defaults= transparent
iscobol.compiler.gui.frame.defaults= transparent # set the white color for all toolbars
iscobol.compiler.gui.tool_bar.defaults= background-Color rgb x#FFFFFF
foreground-Color rgb x#000000 # add the flat style to all push buttons
iscobol.compiler.gui.push_button.defaults=flat # add the underline style to all entry-fields
iscobol.compiler.gui.entry_field.defaults = border-width (0, 0, 2, 0)
border-color rgb x#DAE1E5

```

The screen is transformed to this more modern looking screen.

CUSTOMER MAINTENANCE [Window Title Bar: -, □, ×]

Q Lookup << First < Prev > Next >> Last | Save Delete | Print | Exit ↵

Customer

Customer code:

First name:

Last name:

Address

Street: City:

State: Zip code:

Detail

Gender: Male Female

Phone number:

Cell Phone number:

> Customer maintenance

Online URL: <https://support.veryant.com/phpkb/article.php?id=322>