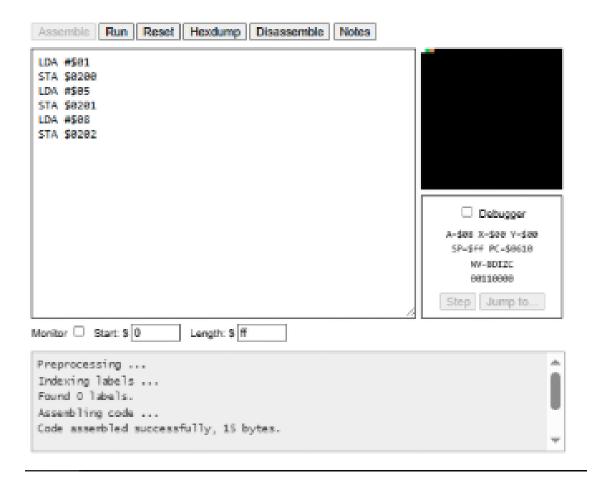
#### **Donaven Bruce**

CS130

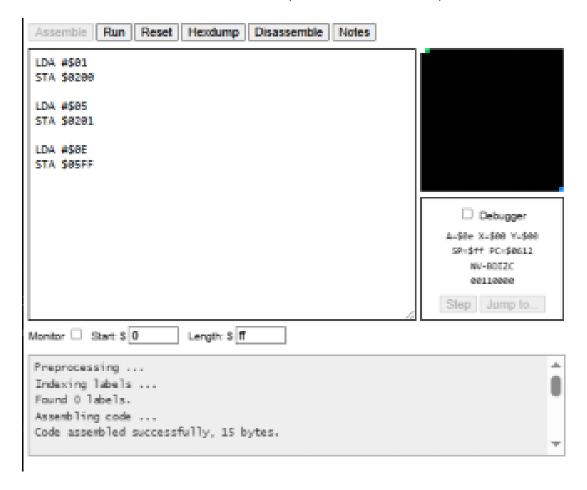
October 13, 2025

#### Lab Exercise 1 — Easy 6502

## Step 1 — Change three pixel colors



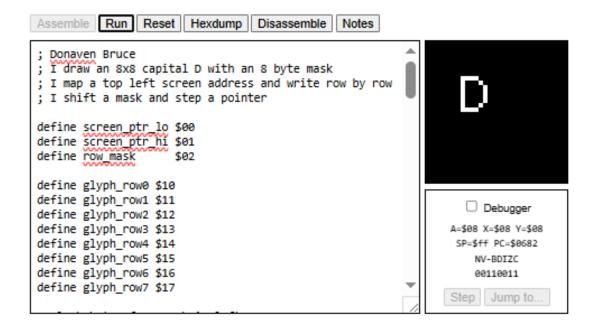
## Step 2 — Pixel at \$05FF (bottom-right)



## Step 3 — 16-color palette from \$0400



## Step 4 — Initial "D" Font height: 17 pixels.



# Step 5 — Branching with BNE

Result: X decremented 5 times (08  $\rightarrow$  07  $\rightarrow$  06  $\rightarrow$  05  $\rightarrow$  04  $\rightarrow$  03). Final X = \$03. Total Step presses = 23.



# Step 6 — Replace BNE with BEQ

Result: X decremented 1 time (08  $\rightarrow$  07). Final X = \$07. Total Step presses = 7.

