Reverse engineer .555 files

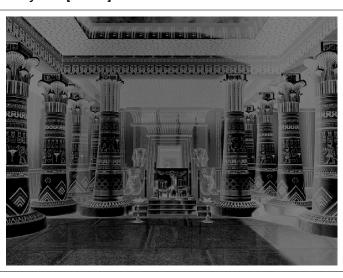
Import files

Fold file into lines

In[6]:= lines = Partition[titles[-1], 640];

Plot as 16-bit grayscale

In[7]:= ArrayPlot[lines]



Out[7]=

Function to extract 5-bit RGB color from 16-bit integer

$$\lceil \frac{\text{BitAnd[BitShiftRight[uint, #[1]], 2^{#[2]} - 1]}}{2^{\#[2]} - 1} \right) \& /@ \{\{10, 5\}, \{5, 5\}, \{0, 5\}\}\}]$$

Out[8]= Function uint,

$$\mbox{RGBColor} \bigg[\bigg(\frac{\mbox{BitAnd[BitShiftRight[uint, $\sharp 1 [\![1]\!]\!], $2^{\sharp 1}[\![2]\!] - 1$}}{2^{\sharp 1}[\![2]\!] - 1} \ \& \bigg) / @ \left\{ \{10, \, 5\}, \, \{5, \, 5\}, \, \{0, \, 5\} \right\} \bigg] \bigg]$$

Map RGB extract function to file

in[9]:= coltitle = Map[rgb555, titles[-1]];

Fold file into lines

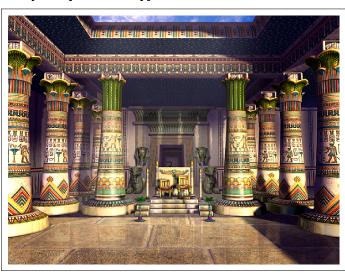
in[10]:= titlearray = Partition[coltitle, 640];

In[11]:= Dimensions[titlearray]

Out[11]= $\{480, 640\}$

Display as RGB graphics file

In[12]:= ArrayPlot[titlearray]



Out[12]=