Decimal $\rightarrow$ Bin/Hex
Tuesday, September 29, 2015
10:31 AM

$$
\begin{aligned}
321_{4} & =\frac{3}{4^{2}} \frac{2}{4^{1}} \frac{1}{4^{0}} \\
& =3 \times 4^{2}+2 \times 4+1 \\
& =48+8+1 \\
& =57_{10}
\end{aligned}
$$

$$
\begin{aligned}
279 \text { base } 4 & \\
279 / 4 & =69.75 \\
69 / 4 & =17.25
\end{aligned}
$$

$$
279_{10}=101134
$$

$3954_{10} \rightarrow$ hex $\quad 123456>89 A B C D E F$

$$
\begin{aligned}
3954 / 16 & =247.125 \\
247 / 16 & =15.4375 \\
15 / 16 & =0.9375 \\
395410 & =F 72_{16}
\end{aligned}
$$

binary $\rightarrow$ hex (this one's col!)

$$
\begin{aligned}
01001110_{2} & \rightarrow \text { hex } \\
0100_{2} & =4_{10}=4_{16} \\
1110_{2} & =14_{10}=E_{16}
\end{aligned}
$$

so $01001110_{2}=4 E_{16}$

