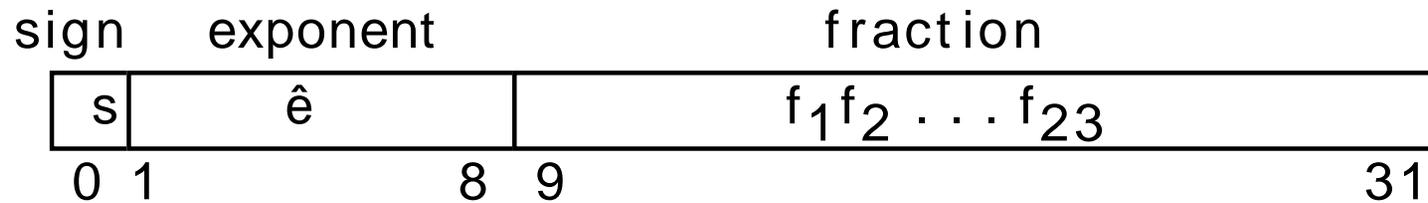


# Fig 6.15 IEEE Single-Precision Floating Point Format



$\hat{e}$	e	Value	Type
<b>255</b>	<b>none</b>	<b>none</b>	<b>Infinity or NaN</b>
<b>254</b>	<b>127</b>	$(-1)^s \times (1.f_1 f_2 \dots) \times 2^{127}$	<b>Normalized</b>
...	...	...	...
<b>2</b>	<b>-125</b>	$(-1)^s \times (1.f_1 f_2 \dots) \times 2^{-125}$	<b>Normalized</b>
<b>1</b>	<b>-126</b>	$(-1)^s \times (1.f_1 f_2 \dots) \times 2^{-126}$	<b>Normalized</b>
<b>0</b>	<b>-126</b>	$(-1)^s \times (0.f_1 f_2 \dots) \times 2^{-126}$	<b>Denormalized</b>

- Exponent bias is 127 for normalized #s