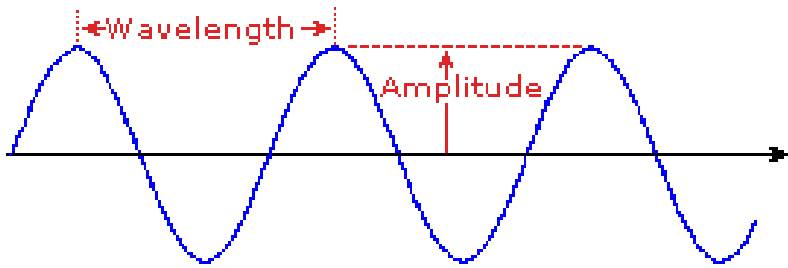


CLASS	FREQUENCY	WAVELENGTH	ENERGY
Y	300 EHz	1 pm	1.24 MeV
HX	30 EHz	10 pm	124 keV
SX	3 EHz	100 pm	12.4 keV
SX	300 PHz	1 nm	1.24 keV
EUV	30 PHz	10 nm	124 eV
NUV	3 PHz	100 nm	12.4 eV
NIR	300 THz	1 μm	1.24 eV
MIR	30 THz	10 μm	124 meV
FIR	3 THz	100 μm	12.4 meV
EHF	300 GHz	1 mm	1.24 meV
SHF	30 GHz	1 cm	124 μeV
UHF	3 GHz	1 dm	12.4 μeV
VHF	300 MHz	1 m	1.24 μeV
HF	30 MHz	10 m	124 neV
MF	3 MHz	100 m	12.4 neV
LF	300 kHz	1 km	1.24 neV
VLF	30 kHz	10 km	124 peV
VF/ULF	3 kHz	100 km	12.4 peV
SLF	300 Hz	1 Mm	1.24 peV
ELF	30 Hz	10 Mm	124 feV
ELF	3 Hz	100 Mm	12.4 feV

Hz = Hertz  
 kHz = kilo Hertz  
 MHz = Mega Hertz  
 GHz = Giga Hertz  
 THz = Tera Hertz  
 PHz = Penta Hertz  
 EHz = Exa Hertz



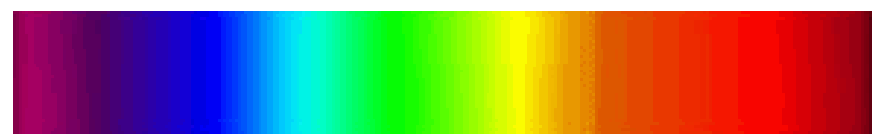
**Visible Spectrum**

Higher Frequency

Lower Frequency

UV

IR



400                      500                      600                      700                      800

Wavelength in nanometers

- **Violet:** 400 - 420 nm
- **Indigo:** 420 - 440 nm
- **Blue:** 440 - 490 nm
- **Green:** 490 - 570 nm
- **Yellow:** 570 - 585 nm
- **Orange:** 585 - 620 nm
- **Red:** 620 - 780 nm

prefix	sym	multiplier	notes
yotta-	Y	$10^{24}$	
zetta-	Z	$10^{21}$	
exa-	X	$10^{18}$	
peta-	P	$10^{15}$	
tera-	T	$10^{12}$	
giga-	G	$10^9$	
mega-, meg-	M	$10^6$	1
kilo-	k	$10^3$	
hecto-	h	$10^2$	2
deca-, deka-	da	$10^1$	2
deci-	d	$10^{-1}$	
centi-	c	$10^{-2}$	
milli-	m	$10^{-3}$	
micro-	$\mu$ , u	$10^{-6}$	
nano-	n	$10^{-9}$	
pico-	p	$10^{-12}$	
femto-	f	$10^{-15}$	
atto-	a	$10^{-18}$	
zepto-	z	$10^{-21}$	
yocto-	y	$10^{-24}$	