Carrier Signal (Sinusoidal)
Amplitude Modulation

Modulation is the process of merging two signals into a third signal with desirable properties of both.

Amplitude modulation involves multiplication of the amplitudes of the two signals.
A concrete example of AM modulation results in radio waves that can propagate over long distances and can carry voice or other information.

FIGURE 10-14
Amplitude modulation. In the time domain, amplitude modulation is achieved by multiplying the audio signal, (a), by the carrier signal, (c), to produce the modulated signal, (e). Since multiplication in the time domain corresponds to convolution in the frequency domain, the spectrum of the modulated signal is the spectrum of the audio signal shifted to the frequency of the carrier.
Amplitude Modulation

From Computer Desktop Encyclopedia
Speech Signal

How are you?
Crystal Radio
(A Schematic)

antenna

coil
diode

headphone

ground
A Foxhole Radio
Making a Foxhole Radio
Making a Foxhole Radio
Making a Foxhole Radio
Making a Foxhole Radio