Temperature Scales and Conversions

There are four thermodynamic temperature scales: **Celsius, Fahrenheit, Kelvin, Rankine**. The Kelvin and Rankine temperature scales are absolute scales.

The relations and conversions between the scales are:

Kevin and Celsius

$$T(K) = t(^oC) + 273.15$$

Rankine and Fahrenheit

$$T(R) = t(^oF) + 459.67$$

Conversion from Kelvin to Rankine

$$T(R) = \frac{9}{5}T(K)$$

Boiling Point of Water

$$373.15\,K = 100.00\,^oC = 671.67\,R = 212.00\,^oF$$

Ice Point

$$273.15\,K = 0.00\,^oC = 491.67\,R = 32.00\,^oF$$