**Spatial Domain:**

An image can be represented in the form of a 2D matrix where each element of the matrix represents pixel intensity. This **state of 2D matrices that depict the intensity distribution of an image** is called **Spatial Domain**.

**Transform Domain:**

Transform Domain is **another name for the Frequency Domain also known as Fourier Domain**. Transform Domain itself is not a mathematical procedure/function. However, a function/procedure called Transform exits. **Transform function/procedure is used to convert a digital image from the Spatial Domain to the Frequency Domain.**

In the frequency domain, **a digital image is converted from spatial domain to frequency domain**. In the frequency domain, **image filtering is used for image enhancement** for a specific application. A **Fast Fourier transformation** is a tool of the frequency domain used to convert the spatial domain to the frequency domain.

**Transforms:**

**An image transform can be applied to an image to convert it from one domain to another**. Viewing an image in domains such as frequency or Hough space **enables the identification of features** that may not be as easily detected in the spatial domain.

**Domain:**

an area of territory owned or controlled by a particular ruler or government.