Source:

1 | **Intuition**

All of the valid outputs of the function, everything that the function can equal when fed an element of the domain.

2 | **In the context of linear algebra (Axler 3.18)**

For T a function from V to W, the *range* of T is the subset of W consisting of those vectors that are of the form Tv for some $v \in V$:

$$\text{range } T = \{Tv : v \in V\}$$

2.1 | **#aka image aka**

2.2 | **#aka column space**

The span of the columns

2.3 | **See surjectivity, the property of a map whose range is it's output space.**