Why "1.5" in IQR Method of Outlier Detection?

- Gaussian Distribution is used calculate the IQR decision range in terms of σ .
- 1. Taking scale = 1:
 - Q1 1 * IQR using this formula.

We get vaule 2.025, this makes the decision range too exclusive, means this results in too much outliers.

- 2. Taking scale = 2:
 - Q1 2 * IQR using this formula.

We get vaule 3.375, his makes the decision range too inclusive, means this results in too few outliers.

- 3. Taking scale = 1.5:
 - Q1 1.5 * IQR using this formula.

We get vaule 2.7, this makes the decision rule closest to what Gaussian Distribution considers for outlier detection.

Therefore, 1.5 is used in IQR Method outlier detection.