**The HTML Template Language (HTL)**

It provides separation of concerns between the logic and the markup.

The HTML Template Language uses an expression language to insert pieces of content into the rendered markup, and data attributes to define statements over blocks of markup (like conditions or iterations).

**i). Expression language**: Used to insert pieces of content into the rendered markup.  
**ii). Block statements**: Used to define statements over blocks of markup (conditions/iterations)

Expressions - **${ and }**

Sly element - **<sly><sly>**

Comments - **< !- - /\* An HTL Comment \*/- - >**

**AEM HTL Data Attributes**

1. **Data-sly-test**

The data-sly-test attribute is used to conditionally include or exclude HTML elements based on a Boolean expression in HTL.

Keeps or removes the element depending on the attribute value.

Example -

**<div data-sly-test="${condition}">**

**Content to be conditionally included.**

**</div>**

1. **Data-sly-use**

The data-sly-use attribute is used to import a Java class or a JavaScript file into an HTL script, making its properties and methods available.

Example -

**<div data-sly-use.varName="${'com.example.ClassName'}"></div>**

1. **Data-sly-list**

The data-sly-list attribute is used to iterate over a collection and render its elements.

Example –

**<div data-sly-list.item="${items}">**

**<p>${item}</p>**

**</div>**

1. **Data-sly-repeat**

The data-sly-repeat attribute is similar to data-sly-list and is used to repeat a block of markup for each item in a collection.

Ensuring consistent rendering of repeated elements.

Useful when you need to repeat complex blocks of HTML.

Example –

**<div data-sly-repeat.item="${items}">**

**<p>${item}</p>**

**</div>**

1. **Data-sly-resource**

The data-sly-resource attribute is used to include another resource within the current HTL script. This is often used for including other components

Example –

**<div data-sly-resource="${resourcePath}"></div>**

1. **Data-sly- include**

The data-sly-include attribute is used to include other file(html/jsp).

The data-sly-include attribute is used to include the markup of another HTL template or script within the current HTL file. It helps in reusing components and templates, making the development process more modular and maintainable.

Examples –

**<div data-sly-include="${'path/to/resource'}"></div>**

1. **Data-sly- attribute**

This is useful when you need to add HTML attributes conditionally or dynamically based on the content of your component**.**

Example -

**<div title="Page Title" data-sly-attribute.title="${properties.jcr:title}"></div>**

1. **Data-sly- unwrap**

It is used to remove the HTML element from the final output while preserving its children.

This is particularly useful when you want to conditionally include or exclude an element based on some logic but still want to render its contents.

1. **Data-sly- text**

It replaces the content of HTML element with the specified text.

Example – **<p data-sly-text="${message}">This text will be replaced</p>**

1. **Data-sly- element**

data-sly-element allows you to dynamically change the HTML tag of an element.

This is useful when you need to switch between different HTML tags based on some condition or logic, without duplicating the content structure.

Example **-**

**<div data-sly-element="${elementTag}">**

**This is some content.**

**</div>**

1. **Data-sly-template & Data-sly-call**

To define a template, we use the data-sly-template attribute with a template name, and to call the template, we use the data-sly-call attribute.