+ and - operators

> **What**: Addition and Subtraction of Vectors
> **Why**: Detailed computations
> **Time To Complete**: 2 hours



+

```
//+ addition ;

v1 = {a,2,c}+{1,b,3};

show v1;

save as addition;
```

Output:

```
"v1" → {1 + a, 2 + b, 3 + c}
```

'//' : **Comment Operator** instructing the Grammarian to ignore its sentence

'**v1**' : identifier for a variable or **variable name**

'**=**': **Assignment Operator** copying the Right Hand Side to Left Hand Side

'**{ }**' : curly brackets, enclosing the list of elements in between

'**a,2,c**' : **Elements** of the vector enclosed in '{ }' brackets

'**;**' : **Delimiter** called semicolon indicating the end of a Free Form sentence, separating sentences

'**show**': textually displays the followed variables

'**save as**': instructs the Grammarian to save the Free Form script and all its interim computations in cloud objects

-

```
//- subtraction ;

v1 = {a,2,c}-{1,b,3};

show v1;

save as subtraction;
```

Output:

```
"v1" → {-1 + a, 2 - b, -3 + c}
```

Properties

0-vector

```
//+ 0 ;

v1 =  {a,b,c}  + {0, 0, 0};

show v1;

save as subtraction;
```

Output:

```
"v1" → {a, b, c}
```

```
//- 0 ;

v1 =  {a,b,c}  - {0, 0, 0};

show v1;

save as subtraction;
```

Output:

```
"v1" → {a, b, c}
```

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