String Manipulations with Arrays

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String Array

Three title lines, with double quotes:

```
ar_st_titles = ["Title1","Title2","Title3"]';
disp(ar_st_titles);

"Title1"
   "Title2"
   "Title3"
```

Three words, joined together, now single quotes, this creates one string, rather than a string array:

```
st_titles = ['Title1','Title2','Title3'];
disp(st_titles);
```

Title1Title2Title3

String Cell Array

Create a string array:

```
ar_st_title_one = {'Title One Line'};
ar_st_titles = {'Title1','Title2','Title3'};
disp(ar_st_title_one);

'Title One Line'
```

'Title1' 'Title2' 'Title3'

Add to a string array:

disp(ar_st_titles);

```
ar_st_titles{4} = 'Title4';
disp(ar_st_titles);
```

'Title1' 'Title2' 'Title3' 'Title4'

Update one of the strings:

```
ar_st_title_one{1} = strcat('log(', ar_st_title_one{1},')');
ar_st_titles{1} = strcat('log(', ar_st_titles{1},')');
disp(ar_st_title_one);
```

```
'log(Title One Line)'
```

```
disp(ar_st_titles);
```

```
'log(Title1)' 'Title2' 'Title3' 'Title4'
```

Duplicate String

```
it_duplicate_n = 10;
disp(repmat({'String'}, [1, it_duplicate_n]));

'String' 'String' 'String' 'String' 'String' 'String' 'String' 'String' 'String'
```

'Str

String Join to form Single Element

using char() is safe

```
st_var_name = "abc"
st_var_name =
"abc"
st_var_name = [st_var_name ' percentile values']
st_var_name = 1x2 string array
           " percentile values"
"abc"
strjoin(st_var_name)
ans =
"abc percentile values"
st_var_name = "abc"
st_var_name =
"abc"
st_var_name = [char(st_var_name) ' percentile values']
st_var_name =
'abc percentile values'
st_var_name = 'abc'
st_var_name =
'abc'
st_var_name = [char(st_var_name) ' percentile values']
st_var_name =
'abc percentile values'
```

String Join dash (Paste)

This is similar to R's paste function:

```
st_var_name = "abc";
st_var_name =
"abc"

st_var_name = [st_var_name, 'efg', 'mqo'];
```

Numeric Array to String without Space

String replace

```
ar_it_test_grp = [3, 8, 9];
strrep(num2str(ar_it_test_grp), ' ', '_')

ans =
'3_8_9'
```

Substring replace in Cell Array

```
ar_st_cells = {'shock=0.35','shock=0.40','shock=0.46'};
ar_st_updated_cells = strrep(ar_st_cells, 'shock', '$\epsilon$');
disp(ar_st_updated_cells);
```

Find position of String in String Cell

ans = 5

ans = 1×3

Find the positions of String Cells in Full String Cells

```
3 2 6
find(strcmp(ls_st_param_key, st_param_key))
```

Cell to string Paste and Replace dash

```
cl_st_param_keys = {'fl_crra', 'fl_beta'};
display(strrep(strjoin(cl_st_param_keys, '-'), '_', '\_'));
```

fl_crra-fl_beta