String: String Manipulations Matlab with Arrays

back to Fan's Reusable Matlab Repository or Dynamic Asset Repository.

Duplicate String

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

'String' '
```

Combine Two Numeric Arrays to a Single String Array

```
ar_fl_abc1 = [0.4 0.1 0.25 0.3 0.4];
disp([num2str(ar_fl_abc1', 'zw=%3.2f;'), num2str(ar_fl_abc1', 'zr=%3.2f')]);

zw=0.40;zr=0.40
zw=0.10;zr=0.10
zw=0.25;zr=0.25
zw=0.30;zr=0.30
zw=0.40;zr=0.40
```

Convert Numeric Array to String, Apeend Prefix to all elements.

```
ar_fl_abc1 = [0.4 0.1 0.25 0.3 0.4];
ar_st_wth_prefix = strcat('row=', string(ar_fl_abc1));
disp(ar_st_wth_prefix);
```

```
"row=0.4" "row=0.1" "row=0.25" "row=0.3" "row=0.4"

% Does Array Exist in Longer Array as Subset
ar_abc1 = [0.4 0.1 0.25 0.3 0.4];
ar_abc2 = [0.4 0.1 0.2 0.3 0.4];
ar_efg = [0.1 0.2 0.3 0.4 0.1 0.2 0.3 0.4 0.1 0.2 0.3 0.4 0.1 0.2 0.3 0.4];
st_abc1 = strjoin(string(num2str(ar_abc1)));
st_abc2 = strjoin(string(num2str(ar_abc2)));
st_efg = strjoin(string(num2str(ar_efg)));
contains(st_efg, st_abc1)
```

```
ans = logical
0

contains(st_efg, st_abc2)
```

```
ans = logical
1

% Display Convert to String
fprintf('Display string [%s]', num2str([1,2,3]));
```

Display string [1 2 3]

```
fprintf('Display string [%s]', num2str(1.1));
Display string [1.1]

fprintf('Display string [%s]', 'abc');
Display string [abc]
```

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 = 1×2 string array
   "abc"
          " percentile values"
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

using char() is safe

```
st_var_name = "abc"

st_var_name =
"abc"
```

```
st_var_name = [st_var_name 'efg']

st_var_name = 1×2 string array
   "abc" "efg"

strjoin(st_var_name, "_")

ans =
   "abc_efg"
```

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', '$\epsilon$');
```

Find position of String in String Cell

Find the positions of String Cells in Full String Cells

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

```
ans = 5
```

ans = 1×3

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