

# Container Map Basics

back to [Fan's Intro Math for Econ](#), [Matlab Examples](#), or [Dynamic Asset Repositories](#)

## If key is in container

```
param_map_a = containers.Map('KeyType','char','ValueType','any');
param_map_a('fl_b_bd') = -3;
param_map_a('fl_w_max') = 50;
param_map_a('fl_kp_min') = 0;
param_map_a('it_w_i') = 100;

disp(isKey(param_map_a, 'it_w_i'));
```

1

```
disp(isKey(param_map_a, 'it_w_i1'));
```

0

## Container Key Loop

Generate new container key within loop dynamically

```
param_map_a = containers.Map('KeyType','char','ValueType','any');

rng(123);
for st_cur = ["abc", "efg", "qqq"]

    if (strcmp(st_cur, "abc"))
        data = rand([1,1]);
    elseif (strcmp(st_cur, "efg"))
        data = 123.123;
    elseif (strcmp(st_cur, "qqq"))
        data = -123;
    end

    % common function
    fl_sh_0p1pc_j = data*2 + 1;
    fl_sh_5pc_j = data/2 - 1;

    % generate map keys
    st_key_sh_0p1pc_j = strjoin([st_cur, 'sh_0p1pc_j'], "_");
    st_key_sh_5pc_j = strjoin([st_cur, 'sh_5pc_j'], "_");

    % store
    param_map_a(st_key_sh_0p1pc_j) = fl_sh_0p1pc_j;
    param_map_a(st_key_sh_5pc_j) = fl_sh_5pc_j;

end

disp(param_map_a.keys);
```

'abc\_sh\_0p1pc\_j'      'abc\_sh\_5pc\_j'      'efg\_sh\_0p1pc\_j'      'efg\_sh\_5pc\_j'      'qqq\_sh\_0p1pc\_j'      'qqq\_sh\_5pc\_j'

```
disp(param_map_a.values);
```

[2.3929]      [-0.6518]      [247.2460]      [60.5615]      [-245]      [-62.5000]