
Example 1: How to use functions to create pattern of made-to-measure shirt

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inital state

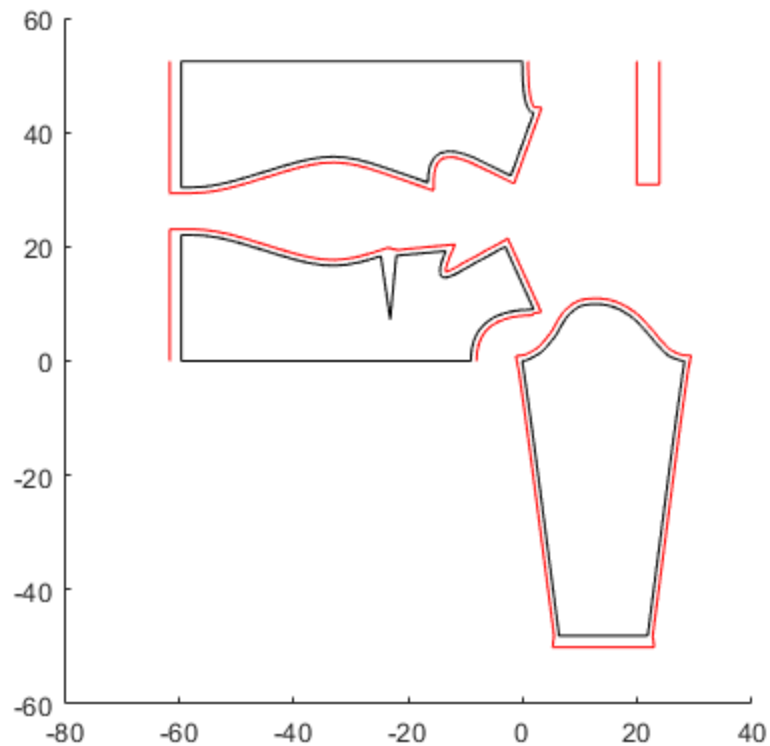
```
close all; clc; clear all;  
warning('off','all');
```

create struct of type 'human'

```
% a) for a standard size  
% human_example = create_human_from_size('female',36, 'Sam Sample');  
  
% b) for individual measurements  
% option 1: direct function input  
human_example = create_human_from_measurement('Sam Sample','female',  
33, 23, 40, 87, 63.5, 90.5, 58, 24.4, 15);  
%  
% option 2: input help  
% warning('on','all');  
% human_example = create_human_from_measurement;  
% save('human_example2', 'human_example');  
  
% c) load existing struct  
% load('human_example.mat');
```

create pattern

```
pattern =  
    create_pattern_shirt(human_example, 'tight', 'long', 'round', 'plain_hem');  
  
plot_basic_pattern(pattern);  
plot_production_pattern(pattern)
```



optional: visual check of pattern

```
plot_construction_points(pattern); hold on; plot_construction_points_sleeve(pattern);  
% plot_all_sizes(pattern);
```

create production files

```
create_production_files_lc(human_example, pattern); % laser cutter  
% create_production_files_ep(human_example, pattern); % external  
production
```

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