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# Exampel 1: How to use functions to create patten 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');

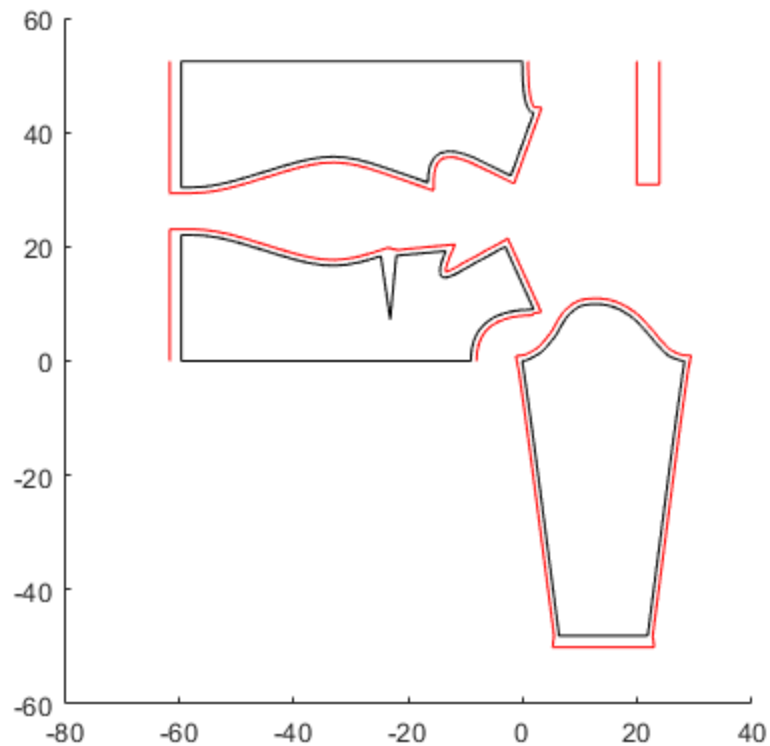
% b) for individual measurements
% option 1: direct function input
human_example = create_human_from_measurement('Sam Sample','female',
    33, 23, 40, 87, 63.5, 90.5, 58, 24.4, 15);
%
% option 2: input help
% human_example = create_human_from_measurement;
% save('human_example2', 'human_example');

% c) load existing struct
% load('human_example.mat');
```

## create pattern

```
pattern =
    create_pattern_shirt(human_example, 'slim', '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
```

*Published with MATLAB® R2019b*