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% simulate galton's example
clear;
ancestor = normrnd(170, 15, 100, 1);
offspring{1} = ancestor*1.03; % no noise
offspring\{2\} = ancestor*1.03+normrnd(0, 5, 100,1); % add some randomness to offsprings (noise)
offspring{3} = ancestor*1.03+normrnd(0, 15, 100,1); % add more randomness
offspring{4} = ancestor*1.03+normrnd(0, 30, 100,1); % more randomness
% let's track the ancestor who has the maximum height, which will be marked as blue!
[~, max idx] = max(ancestor);
figure;
screensize = get( 0, 'Screensize');
set(gcf, 'Position',[0 0 screensize(3)/2.5 screensize(4)/5])
for i = 1:numel(offspring)
    subplot(1,numel(offspring),i);
    x = zscore(ancestor);
    y = zscore(offspring{i});
    scatter(x, y, 50, 'r', 'filled');
    hold on;
    scatter(x(max idx), y(max idx), 50, 'b', 'filled');
    set(gca, 'fontsize', 15, 'linewidth', 1.5);
    xlabel('ancestor height (zscore)');
    ylabel('offspring height (zscore)');
end
```

