```
% Create an allotaxonomograph
datevec1 = [2002];
if (~exist('elements'))
   textfile1 = sprintf('/data/storywrangler/babynames/names-boys2002.csv');
   textfile2 = sprintf('/data/storywrangler/babynames/names-girls2002.csv');
   story_wrangler_twitter_data(1).table = readtable(textfile1,...
                                                 'filetype','text',...
                                                 'delimiter',',');
   story_wrangler_twitter_data(2).table = readtable(textfile2,...
                                                 'filetype','text',...
                                                 'delimiter',',');
   % subsample for latin characters
   for i=1:length(story_wrangler_twitter_data)
       %%
            indices =
            ~cellfun(@isempty,regexp(story_wrangler_twitter_data(i).table{:,1},'^[@#-''A-Za-
       %%
z]+$','match'));
       indices = ~cellfun(@isempty, regexp(story wrangler twitter data(i).table{:,1},'^[A-Za-
z][-''A-Za-z]+$','match'));
       story wrangler twitter data(i).table = ...
           story wrangler twitter data(i).table(indices,:);
       length(indices)
   end
   indices = [1 2];
   for i=1:2
       elements(i).types = story_wrangler_twitter_data(indices(i)).table{:,1};
       elements(i).counts = story_wrangler_twitter_data(indices(i)).table{:,3};
         elements(i).probs = story_wrangler_twitter_data(indices(i)).table{:,6};
%
       elements(i).ranks = tiedrank(-elements(i).counts);
       elements(i).totalunique = length(elements(i).types);
   end
   mixedelements = combine_distributions(elements(1),elements(2));
else
   fprintf(1,'elements not reloaded; delete if needed\n');
end
% some settings
datetag_str = sprintf('Boys v Girls names in %04d', ...
                   datevec1(1));
settings.system1_name = sprintf('Boys names in %04d',...
                 datevec1(1));
settings.system2_name = sprintf('Girls names in %04d',...
                 datevec1(1));
settings.typename = 'word';
%% general settings
```

```
settings.binwidth = 0.21;
settings.topNshuffling = 25;
settings.topNshift = 40;
settings.topNdeltasum = 'all';
settings.max_plot_string_length = 15;
settings.max_shift_string_length = 25;
settings.imageformat.open = 'no';
%% make some flip books
% example flipbook series for rank divergence for 1 and 2
settings.plotkind = 'rank';
%% settings.plotkind = 'probability';
% settings.plotkind = 'count';
settings.instrument = 'rank divergence';
%% settings.instrument = 'probability divergence';
%% settings.instrument = 'alpha divergence type 2';
% move the shift (adds to 0.60)
settings.xoffset = +0.05;
% alphavals = [(0:18)/12, 2, 3, 5, 10, Inf]';
settings.alpha = Inf;
tag = sprintf('%04d',...
            datevec1(1));
figallotaxonometer9000(mixedelements, tag, settings);
```