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function varargout = Trick(varargin)
% TRICK MATLAB code for Trick.fig
%     TRICK, by itself, creates a new TRICK or raises the existing
%     singleton*.
%
%     H = TRICK returns the handle to a new TRICK or the handle to
%     the existing singleton*.
%
%     TRICK('CALLBACK',hObject,eventData,handles,...) calls the local
%     function named CALLBACK in TRICK.M with the given input
%     arguments.
%
%     TRICK('Property','Value',...) creates a new TRICK or raises the
%     existing singleton*. Starting from the left, property value
%     pairs are
%     applied to the GUI before Trick_OpeningFcn gets called. An
%     unrecognized property name or invalid value makes property
%     application
%     stop. All inputs are passed to Trick_OpeningFcn via varargin.
%
%     *See GUI Options on GUIDE's Tools menu. Choose "GUI allows
%     only one
%     instance to run (singleton)".
%
% See also: GUIDE, GUIDATA, GUIHANDLES

% Edit the above text to modify the response to help Trick

% Last Modified by GUIDE v2.5 05-Mar-2018 00:30:36

% Begin initialization code - DO NOT EDIT
gui_Singleton = 1;
gui_State = struct('gui_Name',       mfilename, ...
                  'gui_Singleton',   gui_Singleton, ...
                  'gui_OpeningFcn', @Trick_OpeningFcn, ...
                  'gui_OutputFcn',  @Trick_OutputFcn, ...
                  'gui_LayoutFcn',   [] , ...
                  'gui_Callback',    []);
if nargin && ischar(varargin{1})
    gui_State.gui_Callback = str2func(varargin{1});
end

if nargout
    [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
    gui_mainfcn(gui_State, varargin{:});
end
% End initialization code - DO NOT EDIT

% --- Executes just before Trick is made visible.
function Trick_OpeningFcn(hObject, eventdata, handles, varargin)

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% This function has no output args, see OutputFcn.
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of MATLAB
% handles     structure with handles and user data (see GUIDATA)
% varargin    command line arguments to Trick (see VARARGIN)

% Choose default command line output for Trick
handles.output = hObject;
global ha
clc
format compact
ha(1) = handles.axes1; ha(8) = handles.axes8;   ha(15) =
    handles.axes15;
ha(2) = handles.axes2; ha(9) = handles.axes9;   ha(16) =
    handles.axes16;
ha(3) = handles.axes3; ha(10) = handles.axes10; ha(17) =
    handles.axes17;
ha(4) = handles.axes4; ha(11) = handles.axes11; ha(18) =
    handles.axes18;
ha(5) = handles.axes5; ha(12) = handles.axes12; ha(19) =
    handles.axes19;
ha(6) = handles.axes6; ha(13) = handles.axes13; ha(20) =
    handles.axes20;
ha(7) = handles.axes7; ha(14) = handles.axes14; ha(21) =
    handles.axes21;
ha(22) = handles.axes22;

ha(23) = handles.text2;
ha(24) = handles.text3;
ha(29) = handles.text4;
ha(25) = handles.pushbutton1;

ha(26) = handles.radiobutton1;
ha(27) = handles.radiobutton2;
ha(28) = handles.radiobutton3;

begin_trick;
handles.t = 1;

% Update handles structure
guidata(hObject, handles);

% UIWAIT makes trick1 wait for user response (see UIRESUME)
% uiwait(handles.figure1);
% --- Outputs from this function are returned to the command line.
function varargout = Trick_OutputFcn(hObject, eventdata, handles)
% varargout  cell array for returning output args (see VARARGOUT);
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of MATLAB
% handles     structure with handles and user data (see GUIDATA)

% Get default command line output from handles structure
varargout{1} = handles.output;

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```
% --- Executes on button press in radiobutton1.
function radiobutton1_Callback(hObject, eventdata, handles)
% hObject    handle to radiobutton1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
global ha
cont(hObject,handles,1);

% Hint: get(hObject,'Value') returns toggle state of radiobutton1

% --- Executes on button press in radiobutton2.
function radiobutton2_Callback(hObject, eventdata, handles)
% hObject    handle to radiobutton2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
global ha
cont(hObject,handles,2);
% Hint: get(hObject,'Value') returns toggle state of radiobutton2

% --- Executes on button press in radiobutton3.
function radiobutton3_Callback(hObject, eventdata, handles)
% hObject    handle to radiobutton3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
global ha
cont(hObject,handles,3);
% Hint: get(hObject,'Value') returns toggle state of radiobutton3

% --- Executes on button press in pushbutton1.
function pushbutton1_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
global ha
begin_trick;
handles.t = 1;

% Update handles structure
guidata(hObject, handles);

r =
    25
alphabets =
    1x1 cell array
    {'Y'}
r =
    7
alphabets =
    1x2 cell array
    {'Y'}    {'g'}
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r =
    17
alphabets =
    1x3 cell array
    {'Y'}    {'g'}    {'r'}
r =
    7
alphabets =
    2x3 cell array
    {'Y'}    {'g'      }    {'r'      }
    {'h'}    {0x0 double}    {0x0 double}
r =
    15
alphabets =
    2x3 cell array
    {'Y'}    {'g'}    {'r'      }
    {'h'}    {'q'}    {0x0 double}
r =
    15
alphabets =
    2x3 cell array
    {'Y'}    {'g'}    {'r'      }
    {'h'}    {'q'}    {'s'      }
r =
    2
alphabets =
    3x3 cell array
    {'Y'}    {'g'      }    {'r'      }
    {'h'}    {'q'      }    {'s'      }
    {'b'}    {0x0 double}    {0x0 double}
r =
    5
alphabets =
    3x3 cell array
    {'Y'}    {'g'}    {'r'      }
    {'h'}    {'q'}    {'s'      }
    {'b'}    {'f'}    {0x0 double}
r =
    5
alphabets =
    3x3 cell array
    {'Y'}    {'g'}    {'r'      }
    {'h'}    {'q'}    {'s'      }
    {'b'}    {'f'}    {'i'      }
r =
    12
alphabets =
    4x3 cell array
    {'Y'}    {'g'      }    {'r'      }
    {'h'}    {'q'      }    {'s'      }
    {'b'}    {'f'      }    {'i'      }
    {'t'}    {0x0 double}    {0x0 double}
r =
    14

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alphabets =
    4×3 cell array
    {'Y'}    {'g'}    {'r'
    {'h'}    {'q'}    {'s'
    {'b'}    {'f'}    {'i'
    {'t'}    {'w'}    {0×0 double}
r =
    6
alphabets =
    4×3 cell array
    {'Y'}    {'g'}    {'r'}
    {'h'}    {'q'}    {'s'}
    {'b'}    {'f'}    {'i'}
    {'t'}    {'w'}    {'k'}
r =
    11
alphabets =
    5×3 cell array
    {'Y'}    {'g'        }    {'r'        }
    {'h'}    {'q'        }    {'s'        }
    {'b'}    {'f'        }    {'i'        }
    {'t'}    {'w'        }    {'k'        }
    {'u'}    {0×0 double}    {0×0 double}
r =
    9
alphabets =
    5×3 cell array
    {'Y'}    {'g'}    {'r'        }
    {'h'}    {'q'}    {'s'        }
    {'b'}    {'f'}    {'i'        }
    {'t'}    {'w'}    {'k'        }
    {'u'}    {'o'}    {0×0 double}
r =
    1
alphabets =
    5×3 cell array
    {'Y'}    {'g'}    {'r'}
    {'h'}    {'q'}    {'s'}
    {'b'}    {'f'}    {'i'}
    {'t'}    {'w'}    {'k'}
    {'u'}    {'o'}    {'a'}
r =
    7
alphabets =
    6×3 cell array
    {'Y'}    {'g'        }    {'r'        }
    {'h'}    {'q'        }    {'s'        }
    {'b'}    {'f'        }    {'i'        }
    {'t'}    {'w'        }    {'k'        }
    {'u'}    {'o'        }    {'a'        }
    {'n'}    {0×0 double}    {0×0 double}
r =
    4
alphabets =

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6x3 cell array
    {'Y'}    {'g'}    {'r'      }
    {'h'}    {'q'}    {'s'      }
    {'b'}    {'f'}    {'i'      }
    {'t'}    {'w'}    {'k'      }
    {'u'}    {'o'}    {'a'      }
    {'n'}    {'j'}    {0x0 double}
r =
    9
alphabets =
6x3 cell array
    {'Y'}    {'g'}    {'r'      }
    {'h'}    {'q'}    {'s'      }
    {'b'}    {'f'}    {'i'      }
    {'t'}    {'w'}    {'k'      }
    {'u'}    {'o'}    {'a'      }
    {'n'}    {'j'}    {'z'      }
r =
    1
alphabets =
7x3 cell array
    {'Y'}    {'g'      }    {'r'      }
    {'h'}    {'q'      }    {'s'      }
    {'b'}    {'f'      }    {'i'      }
    {'t'}    {'w'      }    {'k'      }
    {'u'}    {'o'      }    {'a'      }
    {'n'}    {'j'      }    {'z'      }
    {'c'}    {0x0 double}    {0x0 double}
r =
    4
alphabets =
7x3 cell array
    {'Y'}    {'g'}    {'r'      }
    {'h'}    {'q'}    {'s'      }
    {'b'}    {'f'}    {'i'      }
    {'t'}    {'w'}    {'k'      }
    {'u'}    {'o'}    {'a'      }
    {'n'}    {'j'}    {'z'      }
    {'c'}    {'m'}    {0x0 double}
r =
    3
alphabets =
7x3 cell array
    {'Y'}    {'g'}    {'r'      }
    {'h'}    {'q'}    {'s'      }
    {'b'}    {'f'}    {'i'      }
    {'t'}    {'w'}    {'k'      }
    {'u'}    {'o'}    {'a'      }
    {'n'}    {'j'}    {'z'      }
    {'c'}    {'m'}    {'l'      }

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