Fungsi untuk Pushbutton

```
'Buka Citra');
[nama_file, nama_path] =
uigetfile({'*.jpg';'*.bmp';'*.png';'*.tif'},
if ~isequal(nama_file,0)
Img = imread(fullfile(nama_path,nama_file));
                                                                                                                                                                                                                                                                                                           guidata (hObject, handles)
                                                                       axes (handles.axes1)
                                                                                                         title('Citra RGB');
                                                                                                                                                                                                                                    = Img;
                                                                                                                        R = Img(:,:,1);

G = Img(:,:,2);

B = Img(:,:,3);

else
                                                                                                                                                                                                                                  handles.Img = handles.R = R;
                                                                                                                                                                                                                                                                       handles.G = G;
handles.B = B;
                                                                                        ; (pml) wohsmi
                                                                                                                                                                                                   return
                                                                                                                                                                                                                      end
```

```
set (handles.radiobutton3,'Value',0)
                                      set (handles.radiobutton4, 'Value', 0) set (handles.radiobutton5, 'Value', 0) set (handles.radiobutton6, 'Value', 0)
            set (handles.radiobutton2,'Value'
set (hObject, 'Value', 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                           itle('Histogram RGB')
                                                                                                                                                                                               h = histogram(R, 256);
                                                                                                                                                                                                                                                                                  h = histogram(G, 256);
                                                                                                                                                                                                                                                                                                                                           grid on h = histogram(B,256);
                                                                                                                                                                                  axes (handles.axes2)
                                                                                                                                        axes (handles.axes1)
                                                                                                                                                                                                              'r';
                                                                                                                                                                                                                                                                                               9'
                                                                                                                                                                                                                                                                                                                                                                    9 9
                                                                                  = handles.Img;
                                                                                                                                                                     title('Citra RGB')
                                                                                               handles.R;
                                                                                                             handles.G;
                                                                                                                           handles.B;
                                                                                                                                                                                                                                                                                                   11
                                                                                                                                                                                                                                                                                                                          xlim([0,255])
                                                                                                                                                                                                                                        xlim([0,255])
                                                                                                                                                                                                                                                                                                                                                                                                xlim([0,255])
                                                                                                                                                                                                            h.FaceColor =
h.EdgeColor =
                                                                                                                                                                                                                                                                                                h.FaceColor
                                                                                                                                                                                                                                                                                                             h.EdgeColor
                                                                                                                                                                                                                                                                                                                                                                    h.FaceColor
                                                                                                                                                                                                                                                                                                                                                                                    h.EdgeColor
                                                                                                                                                      imshow (Img)
                                                                                                                                                                                                                                                                                                                                                                                                                             off
                                                                                                                                                                                                                                                        grid on
hold on
                                                                                                                                                                                                                                                                                                                                                                                                                 grid on
                                                                                                                                                                                                                                                                                                                                                                                                                              hold
                                                                                  Img
                                                                                                                          H
B
```

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6666
                                'Value'
                                           'Value'
                                                     'Value'
                                                                                                                                                                                                                 Merah')
                     'Value
           'Value
                                          set (handles.radiobutton5,
                                                      set (handles.radiobutton6,
                                 (handles.radiobutton4,
                      (handles.radiobutton3,
           .radiobutton1
                                                                                                                                                                                                                Channel
                                                                                                            Red = cat(3,R,G*0,B*0);
                                                                                                                                                        h = histogram(R, 256)
                                                                                                                                   title('Kanal Merah'
'Value'
                                                                                                  axes (handles.axes1)
                                                                                                                                              axes (handles.axes2)
                                                                                                                                                                  ' r';
                                                                                                                                                                                                              tle('Histogram
                                                                 handles.R;
                                                                            handles.G;
                                                                                       = handles.B;
                                                                                                                                                                             h.EdgeColor = xlim([0,255])
(hobject,
           (handles
                                                                                                                                                                   h. FaceColor
                                                                                                                        imshow (Red)
                                                                                                                                                                                                 grid on title('B
                     set (
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                                      'Value'
                                               'Value'
                             'Value'
                                                                                                                                                                                        au')
                  'Value
          'Value
                                                                                                                                                                                         -
                                                                                                                                                                                        Hi
                                     set (handles.radiobutton5,
                                                set (handles.radiobutton6,
                             (handles.radiobutton4,
                   .radiobutton2,
         .radiobutton1
                                                                                                                                                                                        Channel
                                                                                       axes(handles.axes1)
Red = cat(3,R*0,G,B*0);
                                                                                                                                      h = histogram(G, 256)
'Value'
                                                                                                                    title('Kanal Hijau'
                                                                                                                             axes (handles.axes2)
                                                                                                                                                9 .
                                                                                                                                                                                       tle('Histogram
                                                          handles.R;
                                                                             handles.B;
                                                                   handles.G;
                                                                                                                                                          h.EdgeColor = xlim([0,255])
(hobject,
                   (handles
         (handles
                                                                                                                                                 h. FaceColor
                                                                                                          imshow (Red)
                                                                                                                                                                           grid on title('B
 Д
                                                         K U
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6666
                                        'Value'
                                                    'Value'
                              'Value'
                    Value
          Value
                                                                                                                                                                                                          Biru')
                                        set (handles.radiobutton5,
                                                   set (handles.radiobutton6,
                              set (handles.radiobutton3,
                    (handles.radiobutton2,
         (handles.radiobutton1,
                                                                                                                                                                                                          Channel
                                                                                                           \widehat{\mathbb{B}}
Value',1)
                                                                                                                                                  = histogram (B, 256)
                                                                                                        = cat(3, R*0, G*0,
                                                                                               axes (handles.axes1)
                                                                                                                                                              ., q
                                                                                                                               Biru'
                                                                                                                                         axes (handles.axes2
                                                                                                                                                                                                         tle('Histogram
                                                               handles.R;
                                                                        handles.G;
                                                                                    = handles.B;
                                                                                                                                                                                   5])
(hObject,
                                                                                                                              title('Kanal
                                                                                                                                                              h. FaceColor
                                                                                                                                                                        h.EdgeColor
                                                                                                                   imshow (Red)
                                                                                                                                                                                   xlim([0,2
                                                                                                                                                                                                 ON
                                                                                                                                                                                              grid
title
                                                                                                         Red
                    set
set
set
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                                                                                                                                                                  Grayscale'
                             'Value'
                                      'Value'
                                               'Value'
          Value
                  'Value
                                                                                                                   (9
                                                                                                                  Gray, 256
                                      set (handles.radiobutton4,
                                               set (handles.radiobutton6,
                           (handles.radiobutton3,
                   (handles.radiobutton2,
                                                                 Img_Gray = rgb2gray(Img);
axes(handles.axes1)
         (handles.radiobutton1
                                                                                              title('Citra Grayscale axes (handles.axes2)
                                                                                                                                                                  Citra
'Value'
                                                                                                           = handles.Img;
                                                                                                                                                                  tle('Histogram
                                                                                     imshow(Img_Gray)
                                                                                                                                    h.EdgeColor = xlim([0,255])
(hObject,
                                                                                                                           h. FaceColor
                                                                                                                                                   grid on
 8 6
t t
                    set
                             set
                                                        Img
                                                                                                                  Ц
```

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                                      'Value'
                                                  'Value'
                                                              'Value'
            Value
                        'Value
                                                                                                                                                                                                                                                   Biner')
                                                 set (handles.radiobutton4, set (handles.radiobutton5,
                                     set (handles.radiobutton3,
                                                                                      Img_Gray = rgb2gray(Img);
Img_bw = im2bw(Img_Gray);
axes(handles.axes1)
                        set (handles.radiobutton2,
 set (hObject, 'Value', 1)
set (handles.radiobutton1
                                                                                                                                                                     bw, 2);
                                                                                                                                                                                                                                                   Citra
                                                                                                                                           title('Citra Biner')
et (hObject, 'Value'
                                                                                                                                                        axes (handles.axes2)
                                                                                                                                                                                          M
                                                                           = handles.Img;
                                                                                                                                                             tle('Histogram
                                                                                                                              imshow (Img_bw)
                                                                                                                                                                                              h.EdgeColor
                                                                                                                                                                                                         h.FaceAlpha
                                                                                                                                                                                                                                  grid on title ('F
                                                                           Img
```