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// The macro "Ten Widths" color codes and draws dots
// at 10 equally spaced points along a selected line.
// Written by D.J. Krause, E. Keen and H. Farnbach.

macro "ten widths [k]" {
    getLine(x0,y0,x11,y11,width);
    dx = x11 - x0;
    dy = y11 - y0;
    xstep = dx/11;
    ystep = dy/11;

    // Interpolate segment pts
    x1 = x0 + 1*xstep;
    x2 = x0 + 2*xstep;
    x3 = x0 + 3*xstep;
    x4 = x0 + 4*xstep;
    x5 = x0 + 5*xstep;
    x6 = x0 + 6*xstep;
    x7 = x0 + 7*xstep;
    x8 = x0 + 8*xstep;
    x9 = x0 + 9*xstep;
    x10 = x0 + 10*xstep;

    y1 = y0 + 1*ystep;
    y2 = y0 + 2*ystep;
    y3 = y0 + 3*ystep;
    y4 = y0 + 4*ystep;
    y5 = y0 + 5*ystep;
    y6 = y0 + 6*ystep;
    y7 = y0 + 7*ystep;
    y8 = y0 + 8*ystep;
    y9 = y0 + 9*ystep;
    y10 = y0 + 10*ystep;

    //Color code each line section
    setTool("brush");
    setColor("blue");
    setLineWidth(4);
    drawLine(x0,y0,x1,y1);
    setColor("red");
    drawLine(x1,y1,x2,y2);
    setColor("blue");
    drawLine(x2,y2,x3,y3);
    setColor("red");
    drawLine(x3,y3,x4,y4);
    setColor("blue");
}

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drawLine(x4,y4,x5,y5);
setColor("red");
drawLine(x5,y5,x6,y6);
setColor("blue");
drawLine(x6,y6,x7,y7);
setColor("red");
drawLine(x7,y7,x8,y8);
setColor("blue");
drawLine(x8,y8,x9,y9);
setColor("red");
drawLine(x9,y9,x10,y10);
setColor("blue");
drawLine(x10,y10,x11,y11);

//Color code each oval
setTool("brush");
setColor("blue");
setLineWidth(4);
fillOval(x0,y0,15,15);
setColor("red");
fillOval(x1,y1,15,15);
setColor("blue");
fillOval(x2,y2,15,15);
setColor("red");
fillOval(x3,y3,15,15);
setColor("blue");
fillOval(x4,y4,15,15);
setColor("red");
fillOval(x5,y5,15,15);
setColor("blue");
fillOval(x6,y6,15,15);
setColor("red");
fillOval(x7,y7,15,15);
setColor("blue");
fillOval(x8,y8,15,15);
setColor("red");
fillOval(x9,y9,15,15);
setColor("blue");
fillOval(x10,y10,15,15);
setColor("red");
fillOval(x11,y11,15,15);

}

// Macro to save all measurements and data from a measured image.
// Saves JPEG with "draw" lines, and results table as .csv into the folder

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```
// the image was selected from.  
// Written by D.J. Krause  
  
macro "photosave[f]" {  
  
    //store filename and datetime  
    filename = getInfo("image.filename");  
    getDateAndTime(year,month,dayOfWeek,dayOfMonth,hour,minute,second,msec);  
    newfilename = "IMGJ-Measured-" + filename;  
    tt = filename + "-Measured.csv"  
    mfile = getInfo("image.directory") + newfilename;  
    rfile = getInfo("image.directory") + tt  
    saveAs("Jpeg",mfile);  
    saveAs("Results",rfile);  
    print(year + "-" + month + "-" + dayOfMonth + " " +  
        hour + ":" + minute + ":" + second +  
        "-- Measured leopard seal image and Results saved to" + mfile + "!");  
}
```