

```

        break                                // Ran out of waves
    endif

    Wave w = $name
    if (index == 0)                      // Is this the first wave?
        Display w
    else
        AppendToGraph w
    endif
    index += 1
    while (1)                            // Loop until break above
End

```

To make a graph of all of the waves in the current data folder, you could execute
`DisplayWaveList(WaveList("", ";", ""))`

Operating on the Traces in a Graph

In a previous section, we showed an example that operates on the waves displayed in a graph. It used a wave reference function, `TraceNameToWaveRef`. If you want to write a function that operates on *traces* in a graph, you would *not* use wave reference functions. That's because Igor operations that operate on *traces* expect *trace names*, not wave references. For example:

```

Function GrayOutTracesInGraph()
    String list = TraceNameList("", ";", 1)
    Variable index = 0
    do
        String traceName = StringFromList(index, list)
        if (strlen(traceName) == 0)
            break                                // No more traces.
        endif

        // WRONG: ModifyGraph expects a trace name and w is not a trace name
        WAVE w = TraceNameToWaveRef("", traceName)
        ModifyGraph rgb(w)=(50000,50000,50000)

        // RIGHT
        ModifyGraph rgb($traceName)=(50000,50000,50000)

        index += 1
    while(1)
End

```

Using a Fixed-Length List

In the previous examples, the number of waves in the list was unimportant and all of the waves in the list served the same purpose. In this example, the list has a fixed number of waves and each wave has a different purpose.

```

Function DoLineFit(list)
    String list          // List of waves names: source, weight

    // Pick out the expected wave names

    String sourceStr = StringFromList(0, list)
    Wave source = $sourceStr

    String weightStr = StringFromList(2, list)
    Wave weight = $weightStr

    CurveFit line source /D /W=weight
End

```

You could invoke this function as follows: