Mitchell
System
Designs

TrackIt
User Manual

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● ●

Introduction

This manual is a reference guide for TrackIt. TrackIt can be used to record and graph sets of data points using line, bar, or scatter graphs. Data points can be recorded either as time based points or just as a sequential set of points.
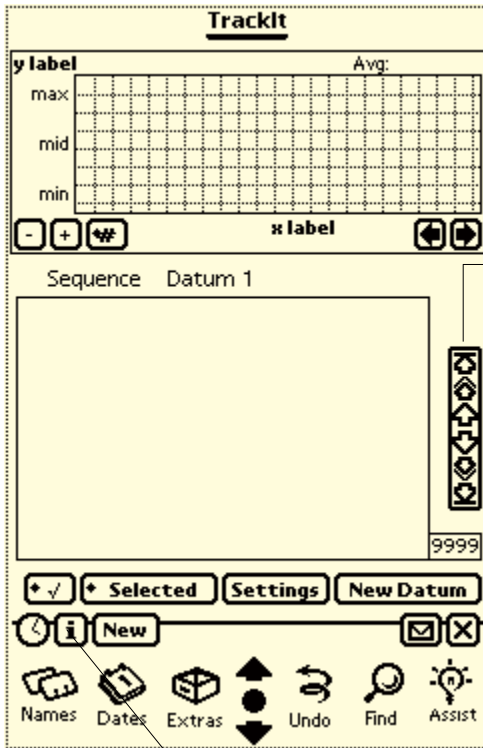
TrackIt can also be used in the classroom using the multi-user mode so each students' data can be kept separate.

> *Note: The screen shots in this manual are from a MessagePad 120. Therefore the actual screen you will be looking at on your Newton device may not match exactly the screen shots in this manual.*

TrackIt

•••

Overview

This screen is displayed when you first start the "TrackIt" application.

This scroll control will scroll the data points list

First entry
Page up
Line up
Line down
Page down
Last entry

Tap on the "i" button and then select the "About" option to open a window to see the version information.

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TrackIt
Version 2.0

Reg. # : Unregistered

This application is restricted to adding 2 data sets until registered. To register, please send $20 US or $25 Canadian to :

Mitchell System Designs
9558 – 83 St.
Edmonton, AB, Canada, T6C 3A1
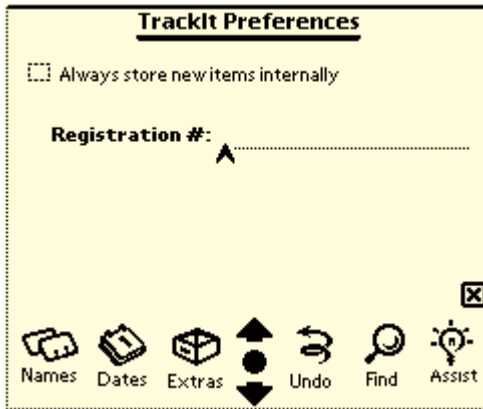**PMitchell@kagi.com**

Entering your registration code

Without registering, TrackIt will allow you to create two data sets with as many points as you want . This limit is removed with a registration code which can be entered through the preferences screen.

To enter your registration code, follow these steps:

✓ Tap on the "i" button and select "Prefs" from the popup menu

✓ Enter your registration code on the "Registration #" entry line

✓ Tap on the close box

Adding a new data set

There are three types of data sets that can be created. Two are time based-date/time or minutes/time-and will be graphed with the x-axis reflecting the time between the points. The third is an even spaced sequential set of points and will be graphed with the x-axis showing an even spacing between points.
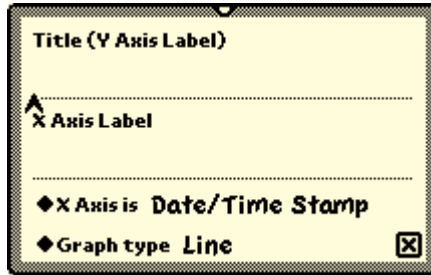
If you want to record values that will be spaced hours or days apart the date/time option is the best. If you want to be recording values every few minutes then the minutes/time option will be best.

To add a new data set follow these steps:

✓ Tap on the "New" button, or type Cmd-N on the keyboard (if attached)

This will create a new graph set and open an entry slip as shown here.

Title (Y Axis Label)

X Axis Label

◆ X Axis is Date/Time Stamp
◆ Graph type Line ⊠

✓ Write in a title for the graph (entry line below the label)

✓ Write in a label for the x-axis on the graph (entry line below the label)

✓ Choose an x-axis type

Tap on the "X Axis is" label to get a popup menu of choices; Date/Time

●X Axis is ✓Date/Time Stamp
◆Graph ty Minutes/Time Stamp
Evenly Spaced

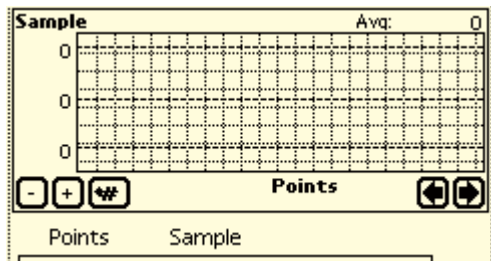Stamp, Minute/Time Stamp, or Evenly Spaced. The default is "Date/Time Stamp".

✓ Choose a graph type

Tap on the "Graph type" label to get a popup menu of choices; Line, Bar, or Scatter. The default is "Line".

◆X Axis is Evenly Spaced
◆Graph type ✓Line ⊠
Bar
Scatter

✓ Tap on the close button

The graph labels and column headings will be updated to reflect the entries made.

Sample   Avg: 0
  0
  0
  0
⊟ ⊕ 🕸   Points   ◀ ▶
    Points   Sample

Adding data points

To add data points follow these steps:

✓ Tap on the "New Datum" button, or type Cmd-D on the keyboard (if attached)

> New Datum

Depending on the x-axis type, one of the three entry slips shown here will be displayed. There is a checkbox on this

New Entry

Recorded 1

New Value
∧
☐ Update graph with every value added

[Add] ⊠

Evenly Spaced type graph

New Entry

Recorded: Set when add is tapped

New Value
∧
☐ Update graph with every value added

[Add] ⊠

Minute/Time Stamp type graph

New Entry

Recorded 4/24/97 2:45 PM

New Value
∧
☐ Update graph with every value added

[Add] ⊠

Date/Time Stamp type graph

slip, "Update graph with every value added", that can be used so you will see the graph change with every point you add. This can be slow if there are a lot of data points, so the default is to update the graph only when the slip is closed.
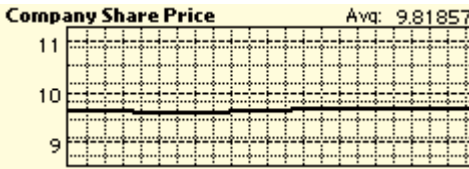
✓ Enter a data point value

✓ Tap on the "Add" button, or press the return key on the keyboard (if attached)

✓ Repeat the enter/add button steps for as many points you want to add
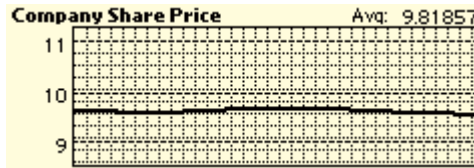
✓ Tap on the close button

Graph controls

Changing the x-axis scale

The two buttons with the "-" and "+" are used to change the scale of the graph.

These three views of the same graph show the effect after tapping the "-" button to reduce the x-axis scale.

Scrolling the graph

If the graph is longer than the display area you can scroll it to the left to view the portion that extends past the display area. Use the left arrow to scroll back towards the beginning of the graph.
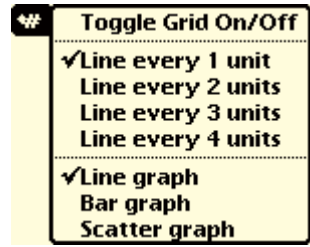
Grid lines

Use the graph settings button to change the grid spacing. If

the scale of the graph has been reduced the grid will also display with reduced space between the lines. Changing the grid space allows you to open the space between grid lines without changing the scale of the graph. You can also hide the grid completely by toggling it off.

Graph type

Use the graph settings button to change the type of graph displayed. You can choose from a line, bar or scatter graph from this popup menu.

Changing column widths

You can change the column widths for the displayed data points by following these steps:

✓ Tap on the column heading for the column you want to adjust

Adjuster controls will be displayed.

Sequence	Datum 1
4/25/97 1:30 PM	9.64
5/2/97 1:30 PM	9.61
5/9/97 1:30 PM	9.68
5/16/97 1:30 PM	9.7
5/23/97 1:30 PM	9.6
5/30/97 1:30 PM	9.55
6/6/97 1:30 PM	9.69
6/13/97 1:30 PM	9.82
6/20/97 1:45 PM	9.98
6/27/97 1:45 PM	10.35

14
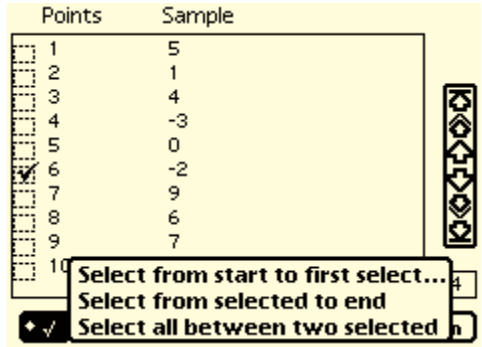
✓ Drag the adjuster control to the desired position.

The column will be re-displayed in the new position.

✓ Tap the column heading again to hide the column adjuster controls

Selecting data points

Data points can be selected by tapping in the checkbox at the

beginning of the line. A range of points can be selected by tapping in the checkboxes for all the data points, or by selecting one data point and then choosing an option from the "select" button to either select all the points before the one selected or all the points after the one se-

Points	Sample
1	5
2	1
3	4
4	-3
5	0
6	-2
7	9
8	6
9	7
10	

Select from start to first select...
Select from selected to end
Select all between two selected

lected. The final option is to select a start and end point and then choose the option from the "select" button to select all the points between the two selected.
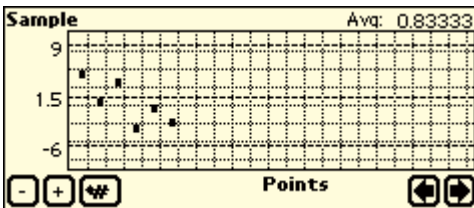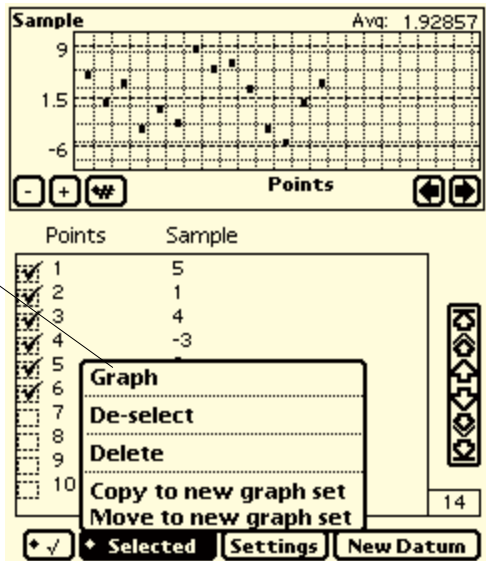
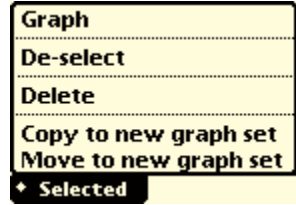## Working with selected data points

◆ **Selected**

Graph

Any points selected, whether contiguous or not, will be graphed when this options is selected. You can add points to the selection, choose the graph option again, and the graph will be updated with the data points selected.

Sample   Avg: 1.92857
9
1.5
-6
Points

Points	Sample
1	5
2	1
3	4
4	-3
5	
6	
7	
8	
9	
10	

Graph
De-select
Delete
Copy to new graph set
Move to new graph set

14

◆ ✓   ◆ **Selected**   **Settings**   **New Datum**

Sample   Avg: 0.83333
9
1.5
-6
Points

De-select

Use this option to remove the
checkmarks from all selected points. This
option will also cause the original graph
to be re-displayed.

Graph
De-select
Delete
Copy to new graph set
Move to new graph set
♦ Selected

Delete

Use this option to delete the data points from the graph set.

Copy to new graph set

Use this option to create a new graph set with a copy of all the
points selected. The current graph is left as it is.

Move to new graph set

Use this option to create a new graph set with the data points
selected. The selected points will be deleted from the current
graph and it will be re-displayed.

Changing graph settings

You can change the graph title, the x-axis label, or the minimum
or maximum values for a graph set. The minimum and maximum
values are used to set the bounds for drawing the graph in the Y
direction. These values are set automatically as data points are
added, but if you want to change them you can and that will
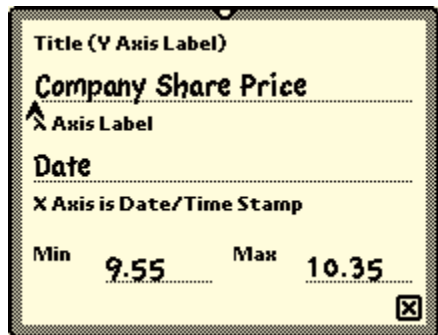affect the scale of the graph on the y-axis.

To change graph settings do
the following:

✓ Tap on the
   "Settings"
   button

   A setting slip will be
   displayed where you can
   change the values.

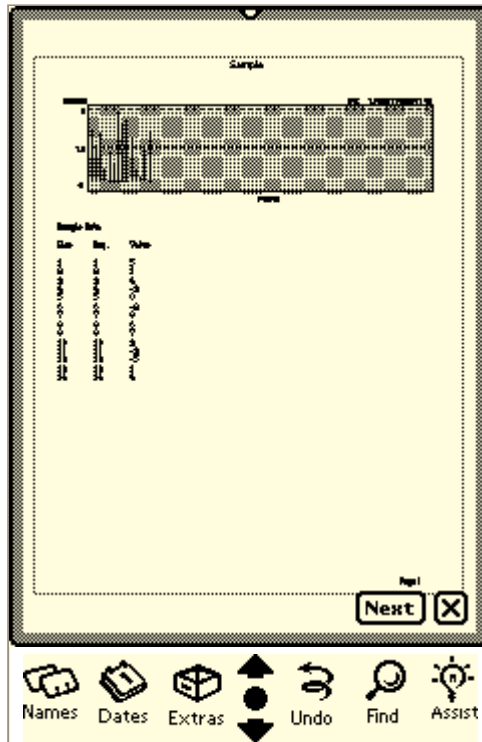✓ Tap on the close box

Settings

Title (Y Axis Label)

Company Share Price

X Axis Label

Date

X Axis is Date/Time Stamp

Min 9.55   Max 10.35   ☒

The graph will be re-displayed and the graph labels and column headings will be updated with any changes.

Printing and faxing

🖨 Print item
📠 Fax   📧

TrackIt will print a graph at the top of the page with all data points listed below it. The graph and list of points will match whatever is currently displayed for the current graph. So if you want a printout or fax with a selection of points, first select the points you want and then choose the "Action" button to print or fax. This applies for changing the style of graph as well. So if the current graph is a bar graph and you want to print or fax a line graph, first select the option to change the current graph to a line graph and then choose the "Action" button to print or fax.

This shows the screen after selecting some points to graph, choosing "Print Item" from the "Action" button, and then tapping on the "Preview" button.
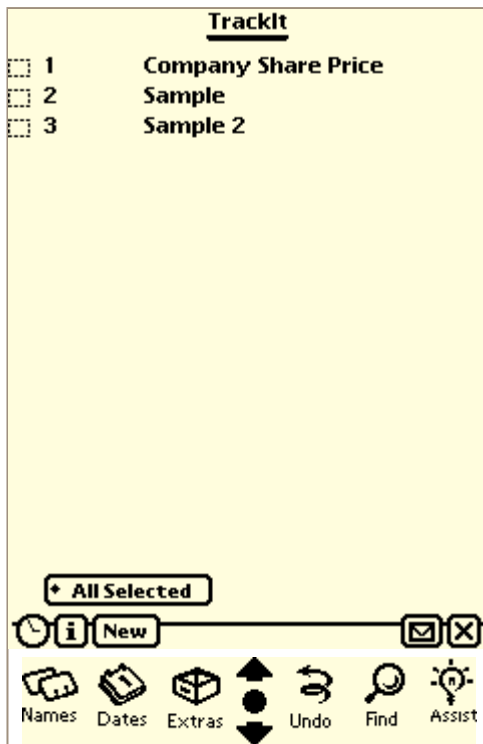
The Overview display

To see a list of all the graph sets entered in TrackIt, tap on the overview button and the overview screen will be displayed. The arrows with the overview button can be used to scroll through the list of graph sets.

Tapping on a graph set line will select that graph set and display the graph and data points for it.

Note: For eMate users with the classroom multi-user mode turned on you will only see a list of graphs for the current user.

The overview screen.

Deleting a graph set

An entire graph set can be deleted by following these steps:

✓ Tap on the overview button

✓ Tap in the checkbox at the beginning of the line for the graph set or sets to delete

✓ Tap on the "All Selected" button and choose the "Delete" option

✓ Confirm the delete by tapping the "Yes" button

This will remove the graph set and all data points associated with it.