# The Quick Guide to Using Map Series Maker

#### The 3 minute Guide

Provided, as is where is, no correspondence with control freaks will be entered into.

There are some cool options for setting up grids, plus title changing etc, so the best thing you can do is find a small dataset, say 10 polygons and have a hack about with some of the functionality for a good hour or so. This extension literally enables printing obscene numbers of unique customized maps.

#### **INSTALLATION TIPS**

Close all ESRI Apps.

Download **DSMAPBOOK** Software for version

ArcGIS Desktop 8.x ArcGIS Desktop 9.x

Ensure you select the correct version *or else it wont work*.

Open Windows Explorer and go to

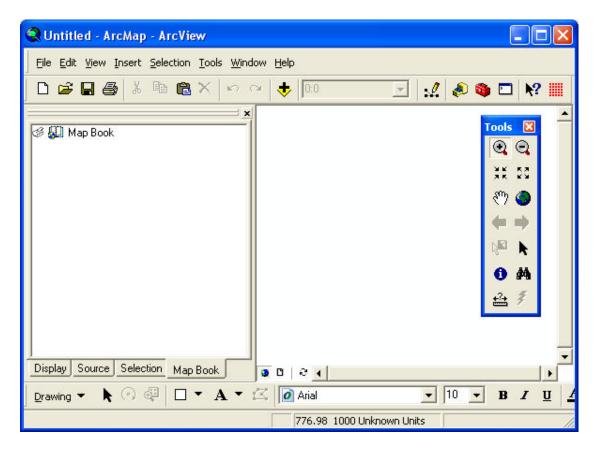
## C:\Program Files\ArcGIS\

And create a new folder called "DSMAPBOOK8" so you now have the path: C:\Program Files\ArcGIS\DSMAPBOOK8\ [Substitute 8 for 9 if you are using Arc9.]

**Download and Unzip the Software into the above directory**. I find that keeping permanent copy in such a place as this avoids potential issues with missing files etc.

Locate the **Install** file and simply run it. You should see a DOS screen registering the DLL files into the registry etc.

Start **ArcMAP** and check that you now have "**Map series maker**" available from the list of available **toolbars** by right clicking on the empty taskbar area. Tick it and another tab should become available at the **lower left** of the ArcMAP **Table of Contents** or Legend list as seen below.



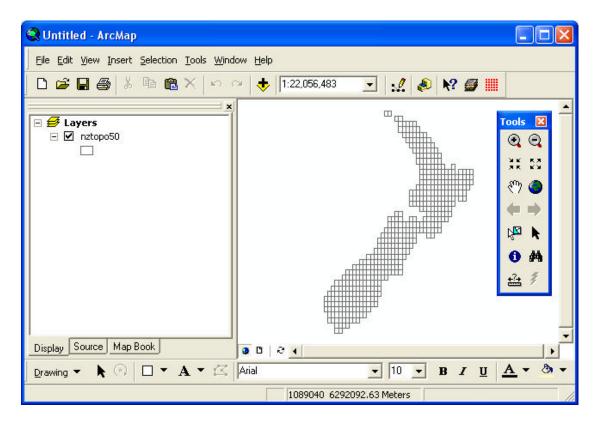
Success. End of Installation, end of that stuff. If you have failed in your mission, I deny all knowledge and **refer you to the proper installation document** as available with the Download.

## SETTING UP A SHAPEFILE FOR USE AS YOUR MAP SERIES.

In my experience, I have either used an NZMS 260 Topo grid as my map series basis or some other irregular polygon dataset, whatever the case...

The first thing to do is setup a unique name for each polygon within the Dataset.

In this example, I will use a little know dataset that we will all soon come to know and love, NZ Topo series somethingaruther NZTM. This could just as easily be a set of parcels that you want an individual map for, or any other multi polygon dataset or even a series of polylines (refer to the help for these as I don't discuss them in this).



So first we must check for unique names, I often use the map series maker tool to test this for me.

Add your dataset

Click on the Mapbook Tab.

Right Click on the words "Map series"

Add map series

Select the field that specifies the page name (sheet name in this case)

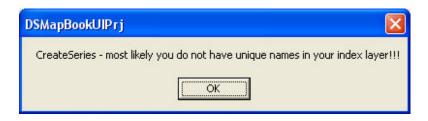
Next

Use all of the tiles

Next

Finish

If you get this:



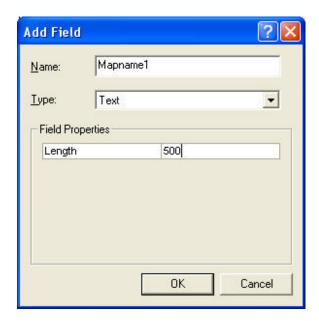
Then carry on here, otherwise if you map series is created, skip on down a bit.

## CREATING A UNIQUE NAME FOR EACH MAP

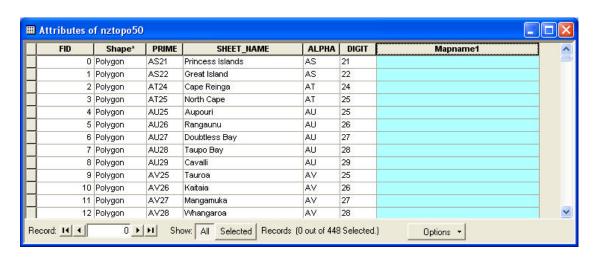
In this case, if you need a unique ID for each map, you can create this using an addin for ArcView 3 called "Santitools" which is an easy way to sequentially number each record with an ID field, but I am sure there are many other ways to populate such a field using Excel or similar etc on a the layers DBF or MDB table.

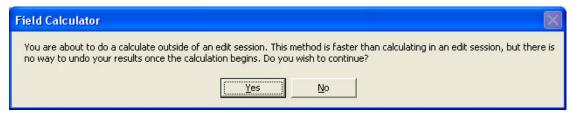


Lets go for a dual use field, which has to be a Character string, as our unique record ID field and also a handy map name reference. Add a new field from the options button.



Calculate the Field by right clicking on the top of the new fieldname and go yes to the resulting popup.

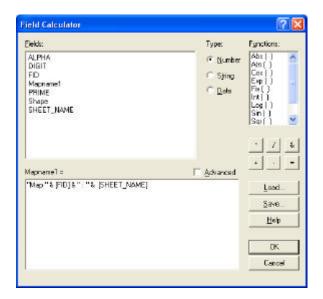




I use the following kind of code to populate the field with a unique map name, a sequential number and a handy title field as follows. It uses the Feature ID field that ArcGIS assigns in Catalogue etc rather than having to prepare a unique ID number.

"Map " & [FID] & " : " & [SHEET\_NAME]

Alternatively "Sheet: " & [ALPHA] & " " & [SHEET\_NAME]



Which populates the field to look like this:

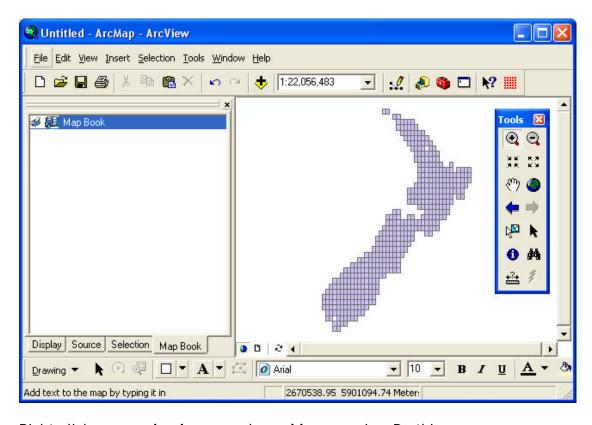


**447 Records in this Dataset**, which equals 447 tiles in our map series. I have worked with a dataset of up to 22,000 tiles with no problems at all for RAM etc, although the variability of scale of the dataset was an issue so I cut them up by hectares and made 3 separate map series - this was for a Fencing Asset Data capture at DOC, which was a successful project, printing the beast on the other hand was a problem as we had only a small slow printer.

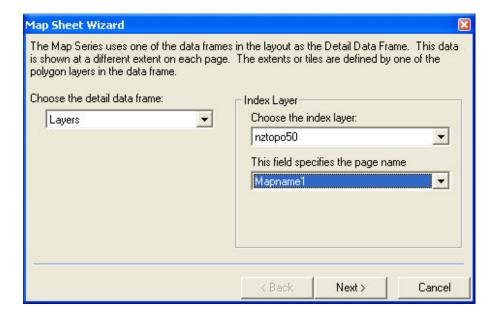


Lets carry on.

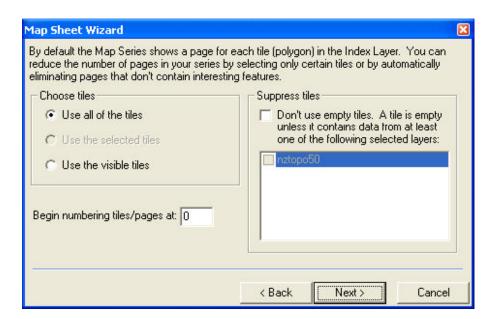
## A MAP SHEET SERIES FOR THE NEW NZTM TOPO SHEETS



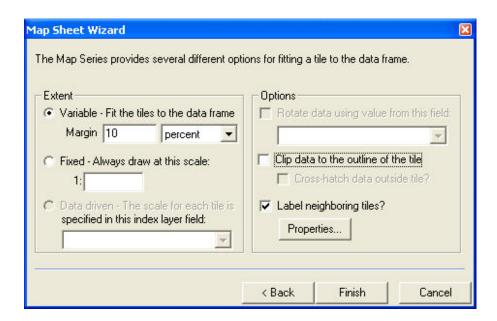
Right click on **map book** now and go **add map** series. Do this:



and this:



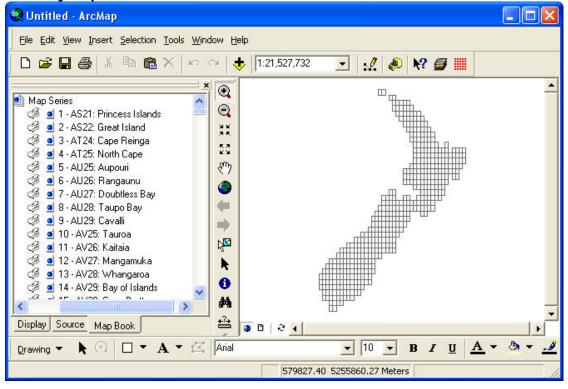
Do this also:



If you get some annoying little message telling you that you do not have unique names, you may like to try smashing the PC, or just save, close and open your ArcMAP document and try again (just the last couple steps only, from **Add New Map Series**). Alternatively, if printing to A3, you could set it to a fixed scale.

#### And VIOLA:

A Lovely Map Series.



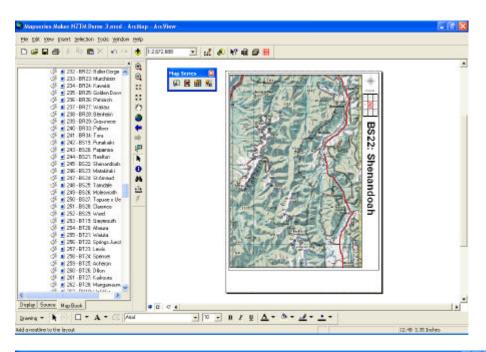
Now go back to your TOC legend and make your map look respectable, with some data, scale, legend, graticule. North arrow and so forth then go back to the Map Book tab and select your favorite tile. IN the below example I have also created the MapName2 field for my MapName for the series. Check your page size etc. Its possible to print the NZTM mapsheet set at 1:100,000 per tile @ A3 (I think).

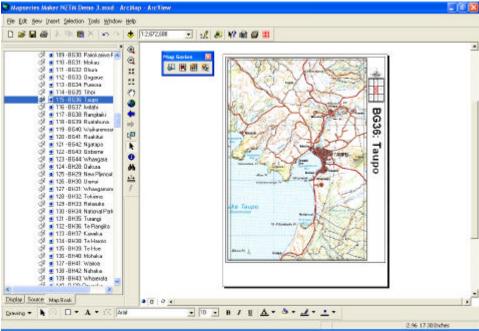
#### **OTHER TIPS**

If you have a large set of polygons and you want to create a map for each one, you may wish to consider creating a selection into 2 or more shapefiles, sorted by Area, in one map series I prepared, I used a roaming scale, with 15% buffer on that set, and on anything less than 40ha in size, I set the scale to fixed @ 1:12.500. For anything extremely large I manually selected them out and did several maps panning around the block.

Save your projects often, I use the simple method of saving and adding a sequential letter on the end of each map document, a,b,c,d,e,f,g, etc. Because due to the way the code is implemented, ie not perfect, ArcMAP will and does crash occasionally when you are giving it a thrashing.

Try printing a small subset first, don't hit print 1-10,000 as once the printing starts it is incredibly difficult to stop, I would print in lots of small batches, this also allows your colleagues to fit their printing jobs in between your printing.





I welcome your query comments and suggestions, this is meant to be just a quick guide with a few tips learnt from many hours of experience!

<u>DuaneWilkins@clear.net.nz</u>

Nov 2004

http://www.spatialanalyst.net.ms