

Algorithm: Tiling 02

Using as many different colored pens or markers as needed, fill the grid below using the tiling algorithm described in the previous page. Note that a famous graph theory theorem, called the *four color theorem*, says the following:

Four Color Theorem: *Given any separation of a plane into contiguous regions, producing a figure called a map, no more than four colors are required to color the regions of the map so that no two adjacent regions have the same color.*

Source: Wikipedia

- Note that a tiling is a special kind of map. Therefore, all tiling patterns can be colored using at most 4 colors!
- Many different algorithms can be used to tile this grid. Do not feel you need to follow the algorithm used in the example on the previous page.

