

## ReadMe for VS VIEWER

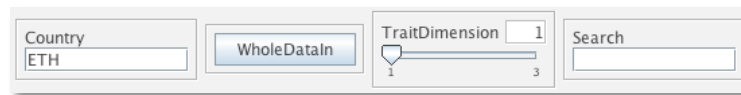
'VS Viewer.binary' enables you to gain detailed information about each virtual state on the platform of *artisoc* version 1.0 or later. For information on *artisoc*, please visit Kozo Keikaku Engineering (KKE)'s web site (<http://mas.kke.co.jp/>, in Japanese).

### GETTING STARTED



Open 'VS Viewer.binary' in *artisoc*. To activate the viewer under the specified conditions, click the **Play** button under the menu bar. Click the **Stop** button to deactivate it.

### CONTROL PANEL

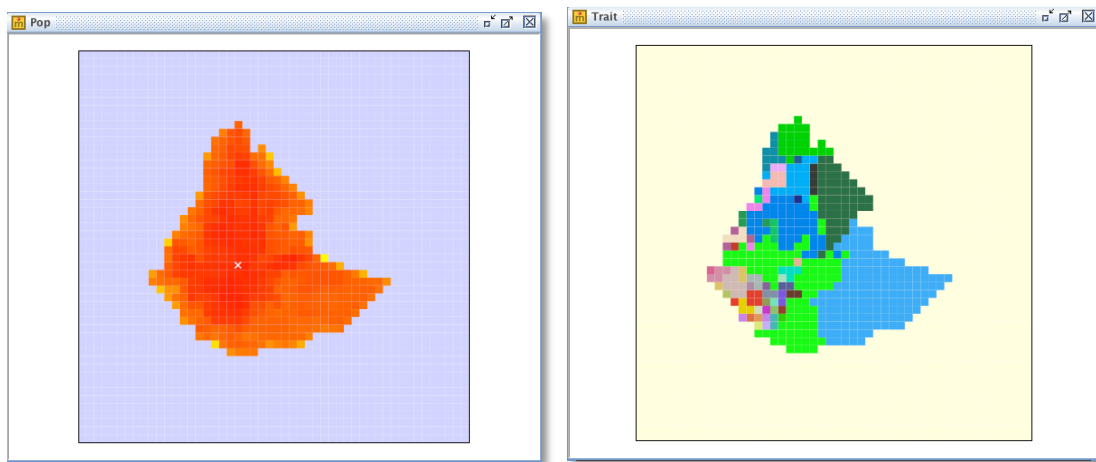


You can control the way the viewer functions through the Control Panel, which consists of the following:

- **Country**: which specifies the virtual state to be explored. Enter any one of the following options in the text box: **ETH** (Ethiopia before the Eritrean independence); **FDRE** (Federal Democratic Republic of Ethiopia. That is, Ethiopia after the Eritrean independence); **KEN** (Kenya); **NSDN** (North Sudan); **SOM** (Somalia); **SDN** (Sudan); and **SSDN** (South Sudan).
- **WholeDataIn**: which specifies whether or not the viewer displays the entire list of socio-cultural traits associated with the virtual state concerned. This includes additional layers of information on the traits' subclasses, such as clans and sub-clans. At present, the inclusion of lower levels of groupings is far from exhaustive, and, therefore, such information should be considered at best provisional.
- **TraitDimension**: which specifies the category of the traits whose spatial distribution is to be shown on the **Trait Map** (see MAPS below). Dimension 1 corresponds to ethnicity; 2 to religion; 3 to region.

- **Search**: which enables you to obtain further information on a specific trait in the category specified in the **TraitDimension** slide bar. Enter the string code of the trait in question (e.g., '02', '93') in the text box. Its spatial distribution over the virtual state's territory is displayed on the **Trait Map** while other non-spatial information such as its name and population are shown on the Output Window.

## MAPS



The viewer illuminates aspects of the virtual state's spatial configuration in the form of several two-dimensional maps, including:

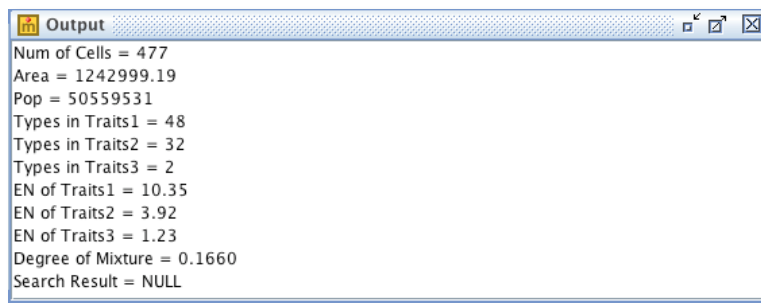
- **Pop Map**: which displays the demographic distribution in the virtual state concerned. The color gradation indicates differences in the numbers of inhabitants on *PopCells*, with the most reddened cell having the largest number of population.
- **Trait Map**: which displays the distribution of socio-cultural traits in the category specified in the **TraitDimension** slide bar. Each *PopCell* is colored according to the value of its *Traits*. The **PopCells** that have the trait specified in the **Search** box are colored red.
- **Region Map**: which displays the sub-national administrative units that are used as input, in the case that the *Initial Government* has an arrangement for regional autonomy.

## POPCELL INFORMATION

The above maps are interactive: by clicking on any of them, information on the *PopCell* located at the point that is being clicked appears on the Console Screen. The information that is being displayed includes the area; population; and socio-cultural traits found among the inhabitants of the specific *PopCell*. Note that Trait1 is ethnicity, Trait2 is religion, and Trait3 is region. The number in parentheses that accompanies each trait indicates its population ratio. It is possible that a *PopCell* has more than one traits in a given category.

```
***** PopCell Information *****
Coordinates : ( 21,27 )
Area : 3053.359131 km2
Population : 505635
Trait1 : 16[Oromo] (1)
Trait2 : 93[Christian] (1)
Trait3 : 01[Ethiopia] (1)
*****
```

## OUTPUT WINDOW



This window reports various statistics that are characteristic of the virtual state concerned, including:

- **Num of Cells**: which displays the total number of *PopCells*.
- **Area**: which displays the total area of the territory.
- **Pop**: which displays the total population.
- **Types in Traits**: which displays the number of traits in each category.
- **EN of Traits**: which displays the effective number of traits in each category, which is calculated from its population composition.
- **Degree of Mixture**: which quantifies the extent to which different traits adjoin each other. 0.0 indicates total homogeneity while 1.0 indicates total mixture, where every *PopCell* is surrounded by neighbors that have entirely different *Traits*.
- **Search Result**: which shows the specified trait's name and the total number of inhabitants who share that trait.