# Visualizing Atlantis Tool (vat)

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Atlantis summit 2015

### About vat

• Interactive R package used with the Atlantis ecosystem model.

Created by ChristopherDesjardins

 Available at <a href="https://github.com/mareframe/">https://github.com/mareframe/</a>
 vat



# The start page

vadt Welcome

Spatial Plots •

Age Disaggregated

Diet Data ▼

Summaries •

#### Visualizing Atlantis Diagnostic Tool

The visualizing Atlantis diagnostic tool, vadt, is developed by Christopher David Desjardins at the Science Institute at the University of Iceland as a part of the EU MareFrame project. The vat package is released under the GPL v3 or later and source code is available at http://github.com/mareframe/vat.

At present, vadt is able to:

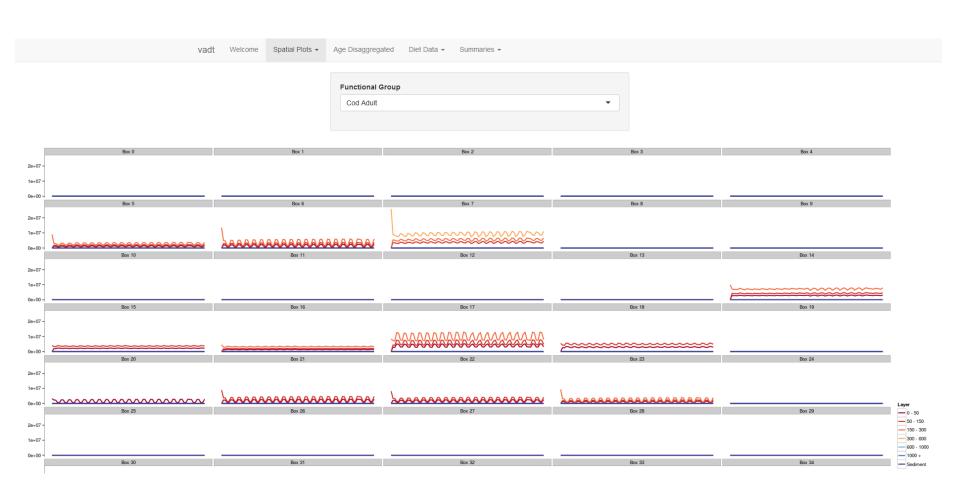
- · Replicate the functionality of Olive
- Display animated GIFs showing changes in biomass over time for each functional group in the model created with the animate vadt function.
- · Plot structural, reserve, total numbers, length-at-age, and biomass disaggregated by age for each functional group
- Present diet information. For vertebrates, the units are number eaten per second and for invertebrates, the units are mg N/m3
  eaten per second
- Present aggregated plots of vertebrates and invertebrates

To start the application, click a tab, e.g. **Spatial Plots**, etc. Then select the functional group you are interested. Some plots have tabs on the left side of the page which can be clicked (e.g. the Interactive Plots tab).

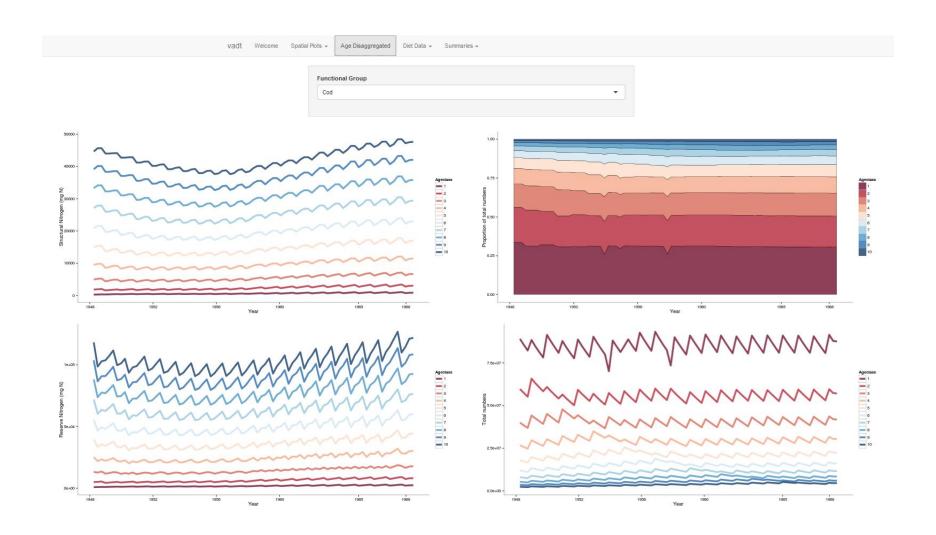




# Distribution by boxes



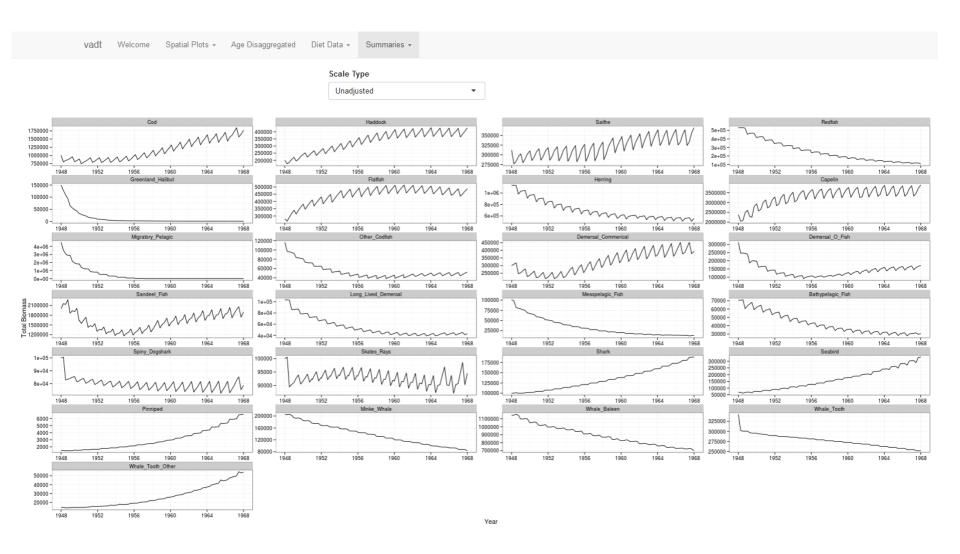
## Growth



## Diet



### **Biomass**



### How it works

#### To Install:

```
library(devtools)
install_github(repo = "mareframe/vat")
```

#### To Run:

```
create_vadt()
```

This creates an object of class vadt containing all the data needed for vadt().

```
animate_vadt()
```

This function creates optional animated plots for vadt().

```
vadt()
```

This is the function that launches the actual Shiny application.

### How it works