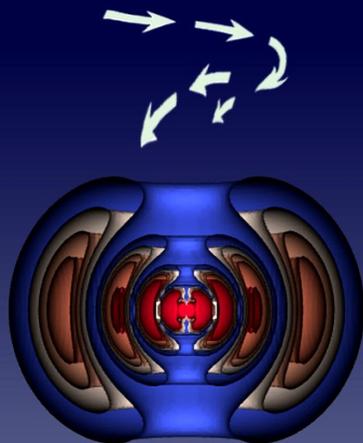


3D Visualization can be used as a mechanism to look at complex topics

$$H\Psi = E\Psi$$

$$\Psi_{nlm} = R_{nl}(r)Y_{lm}(\theta, \phi)$$



Visualization of hydrogen atom state  $nlm=(6,1,1)$   
See [videreanalytics.ca/hydrogen/](http://videreanalytics.ca/hydrogen/) for more information.

*In Latin, videre means "see". In Norwegian, the same word means "further".*

*The idea is that by analyzing data you can gain insights that you didn't have before, and that is what we are about.*

*- Jon Johansson, President and CEO of Videre Analytics*

Upcoming Workshop:

## Image Analysis with Matlab

**Date:** Wednesday April 15, 2015

**Time:** 1:00PM - 4:30PM

**Cost:** No Charge

**Location:** ETLC 2-005 University of Alberta

**Instructors:**

**Denise Thornton and Dr. Jon Johansson**

Using Matlab (mathworks.com), this workshop presents principles and methods for analyzing images including those from x-rays, photographs and tomography.

We will start with an overview of Matlab. Then we will work through examples using intensity based and morphological operations in order to segment objects of interest from a data set.

Programming experience is recommended for this course.

Workshop sponsored by Advanced Materials & Processing Laboratory, University of Alberta.



**Register online:** [videreanalytics.ca/events/image-analysis-with-matlab/](http://videreanalytics.ca/events/image-analysis-with-matlab/)



Videre Analytics provides consulting and support services in numerical and visual data analysis, including 3D visualization.

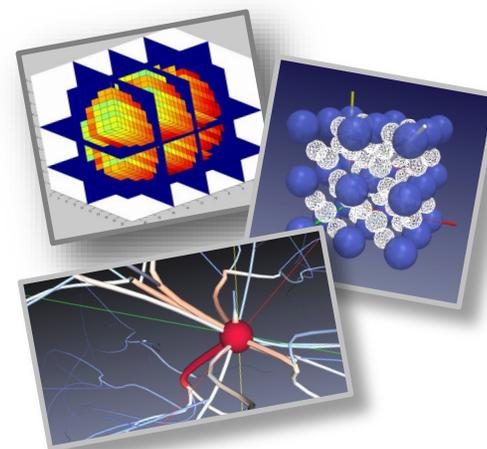
We provide assistance with specification, installation and operation of large computer systems for computation and visualization.

We provide training in operation of all hardware and software systems delivered.

We give unbiased options for various solutions for our clients because we are not tied to particular software or hardware brands.

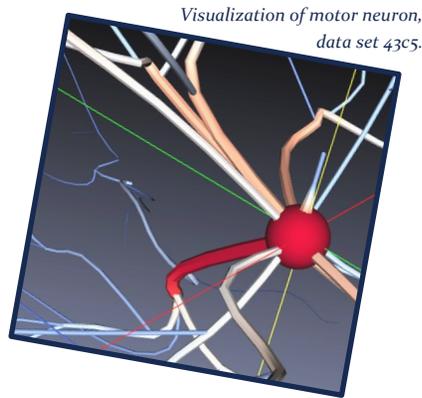
We have expertise in a broad range of techniques and products. We will work with you to solve your data problems.

[videreanalytics.ca](http://videreanalytics.ca)



## Visual Data Analysis

Visualization is a process of taking numerical values and turning them into a visual form. The results can be as simple as a chart, graph, map, or as complicated as a 3D Printed object or a simulation in an immersive environment. It is important to preserve the meaning of the data in the final result.



If your current data analysis process does not use visualization, there are insights that can be difficult to obtain, and some likely will be missed altogether.

Having visualization as part of the analysis process is proven to be very useful, and can be essential for efficient exploration of an incoming data stream.

We will work with you to provide efficient and effective visual results appropriate for your environment/needs/business or research goals.

We help in the process of recognizing patterns, structures, relationships thus decreasing our clients' "time to understanding", "time to insight" and to achieve the "aha" moment.

## Training on Technical Subjects

Today's computing environment can be daunting because of the complexity of modern systems. In order to stay efficient and effective people are forced to upgrade and to change tools on a continuous basis.

We provide on-site and off-site training, presentations, and workshops in a variety of technologies

- ◆ Visual analytics
- ◆ Image analysis
- ◆ Scripting
- ◆ Programming languages
- ◆ Large computer system use

We have a great deal of experience teaching workshops to a variety of audiences in a university setting. We strive to make our clients self-sufficient with their technology.



## Data Analysis

The critical component in the analysis process is the Analyst. Videre Analytics is comprised of a group of skilled analysts with wide experience in data and systems analysis and visualization. We offer support for the entire data analysis ecosystem.

A successful analysis pipeline will:

- ◆ take in data from the sources available,
- ◆ as much as possible, create a uniform format from those various data sources,
- ◆ apply algorithms to the data, (using custom or packaged software) and
- ◆ result in actionable insights.

The processing and storage requirements for the analysis ecosystem will depend on the volume of data, the rate at which data is generated and the complexity of the analysis.

Videre Analytics will work with you to obtain greater understanding of your data, leading to actionable insights.

**VA** Videre Analytics Ltd.  
Making your data work

### Contact Us

Videre Analytics

Edmonton, Alberta, CANADA,

(780) 240-6806

contact@videreanalytics.ca

Visit us on the web: [videreanalytics.ca](http://videreanalytics.ca)