

Group 1: Features of Dataset Applications

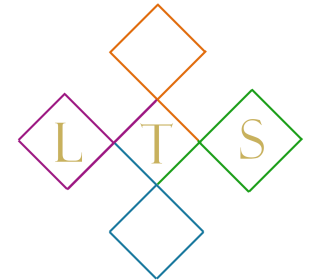
User Interface Features Typical of Dataset Applications

The code for each dsC data set includes a customized “Dataset Application” which displays individual samples and groups of samples via 2D, 3D, and native-compiled GUI controls. Each Dataset Application can thereby make use of advanced visual and interactive features that are uniquely possible when using customized, native-compiled GUI classes. The following screenshots will show several examples of these features, including:

Specialized Top-Level Controls Tree Widgets, Stacked Widgets, and Graphics Scenes.

Context Menus Systematically organize functionality around UI layouts.

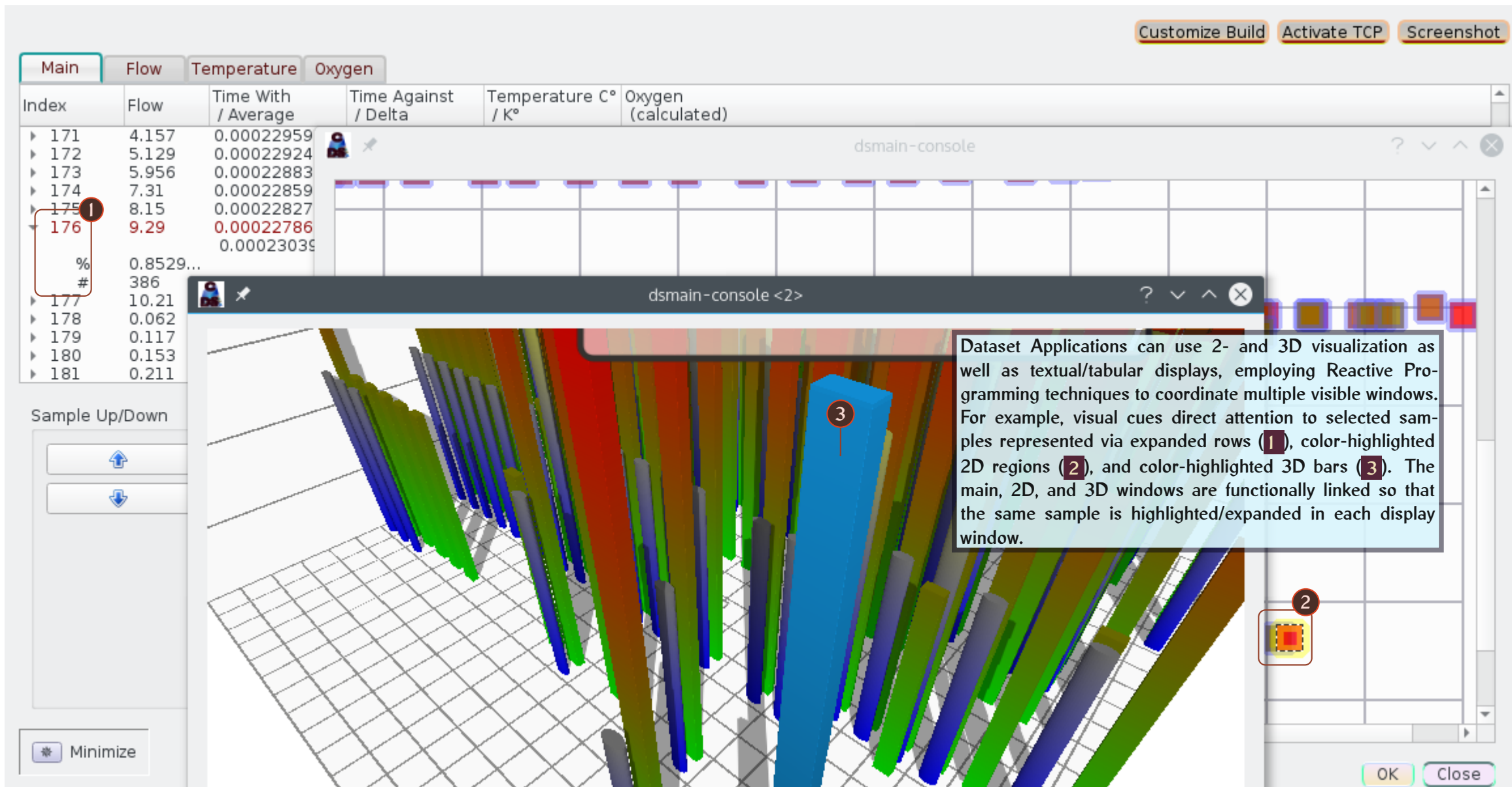
Multi-Window Displays Divide application functionality in multiple specialized top-level windows and/or dialog boxes.



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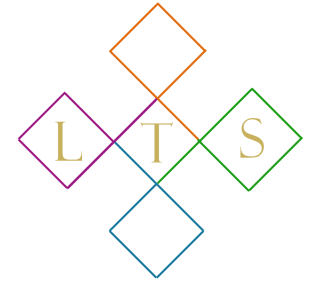
Coordinating



A3R Document Viewers

A3R applications may embed viewers for document formats such as e-Pub, HTML, and PDF; then supplement conventional publications with special components customized for individual manuscripts: e.g. (as in this case), a widget allowing readers to visually explore patterns in classical Indian music.

The screenshot displays the A3R Document Viewer interface. On the left, a sidebar contains icons for 'Preferences', 'Library', and 'Reading', along with tabs for 'HTML Source', 'Lisp', 'CSS', and 'XML'. The main content area shows the title 'ANTHROPOLOGY AND HUMANISM' and the article title 'Ethnographer as Apprentice: Embodying Musical Knowledge in South India' by 'da Weidman'. Below the title, it indicates 'Published: 26 December 2012' and provides a link for 'Full publication history'. A modal window titled 'Display Tala Types: Jhoomra/Dhamar (14 beats)' is open, showing a visual representation of a musical pattern with red and green boxes. The 'Patterns' section includes a slider for 'Pattern 1 (3-4-3-4)' and 'Pattern 2'. The 'File' field shows the path '/extension/ScignSeer/articles/svg/tala.svg'. At the bottom right, the journal information 'Volume 37, Issue 2', 'December 2012', and 'Pages 214-235' is displayed, along with a thumbnail of the journal cover.



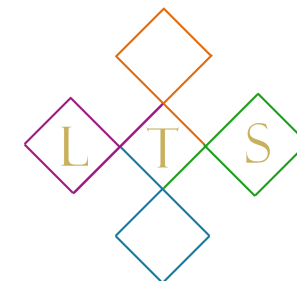
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A3R Document Viewers as Embedded Components

Document Viewers may also be embedded in host applications which provide domain-specific visualization capabilities. For example, chemistry papers might be viewed within IQmol (a Qt-based program for molecular visualization and physical/chemical analysis) via an A3R document-viewer plugin.

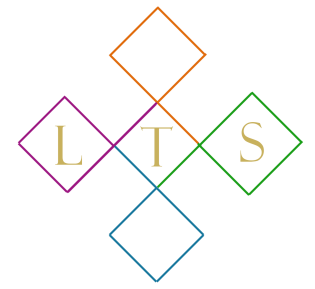
The screenshot displays the IQmol software interface. The top menu bar includes 'Display', 'Build', 'Calculation', 'SONIC', and 'Help'. Below the menu is a toolbar with various icons for file operations and molecular manipulation. The main window shows a 3D ball-and-stick model of a molecule with grey carbon atoms, white hydrogen atoms, a blue nitrogen atom, a red oxygen atom, and a large yellow sulfur atom. A context menu is open over the model, listing options: 'Configure', 'Select All', 'Reperceive Bonds', 'Duplicate Geometry', 'Atomic Charges', 'Remove', and 'SONIC'. The 'SONIC' option is highlighted, and a sub-menu is visible with 'Springer Keyword Search: Cysteine', 'Springer Web Search Home', and 'Search Saved Articles'. The 'Springer Keyword Search: Cysteine' option is selected, opening a search results window. This window shows 'Showing 157 results.' and lists a book titled 'Cysteine Proteases of Pathogenic Organisms' by Robinson, M. W. (Ed), Dalton, J. P. (Ed) (2011). The book cover is displayed next to the title. The URL at the bottom of the window is 'www.springer.com/gp/search?query=cysteine&submit=Submit'.



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Document Viewers Augmented With APIs



Another strategy for interactive publications is linking documents with APIs maintained by publishers, or by cultural or educational institutions.


API

Open Folder

View

Instructions

As an example, documents mentioning artifacts held in a museum can provide features to view more information about those museum-pieces through the host institution's API.



MEDAL

✚ Click the icon to save this object

This is a **Medal**. We acquired it in **1920**. Its m is a part of the **Product Design and Decorativ** department.

Cite this object as

Medal; bronze; 1920-31-1

Row: 0

Column: 0

Embedded Multimedia

Custom-built A3R document viewers can provide convenient access to multimedia content embedded in or linked to texts — including audio files, videos, and 3D graphics scenes or models.

In this case a video player is launched in a dialog box, floating above the article text. For those reading digital books or articles, videos and other multimedia content can be presented through secondary windows launched via context menus; text and multimedia may thereby be viewed side-by-side.



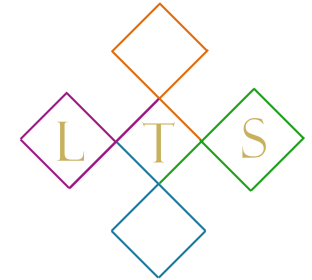
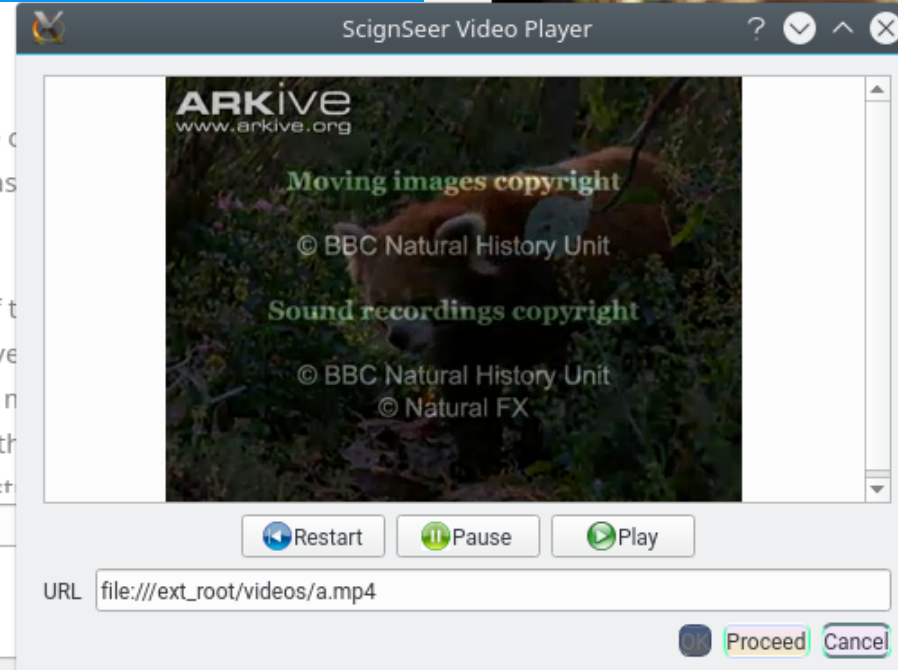
Behavior

Red pandas are generally solitary, but there are a couple of exceptions. They develop extended associations with their mothers that last through the breeding season.



In terms of behavior, red pandas tend to have a more solitary lifestyle than other species. This may be due to their search for the most suitable habitat, which is often patchily distributed.

ark.org/red_panda/about-the-red-panda/



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