



LIVE PHYLOGENETIC SEQUENCE DATA IN THE WEB

Application: Integration of interactive data into online publications

Unmet need: Efficient utilization of complex data in scientific publishing

IP Status: Commercial licenses to KUYA code are available

Project phase: In active development. Ready for trial.



KUYA turns complex biological data into live images that can be embedded into web pages.

Large sequence datasets are usually difficult to communicate via static images. KUYA replaces static images with interactive views that can be seamlessly zoomed and browsed. KUYA also provides direct access to the source data together with interactive editing and sharing tools. KUYA can be utilized in scientific publishing where KUYA visualizations can be displayed as pop-up windows or integrated directly to web articles.

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External KUYA

- ✓ launched via web links
- ✓ visualizations displayed in a pop-up window
- ✓ compatible with printed text

Online text with KUYA button

... based on PRANK alignment. [Open](#) (b) In contrast, the estimates based on ClustalW ...

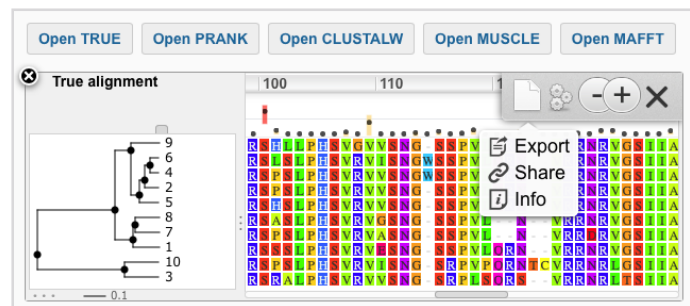
Printed text with KUYA link

... PRANK alignment. (<http://kuv.ax?xml>) (b) In contrast, the estimates based on ClustalW ...

KUYA launch link supports various content formats

Integrated KUYA

- ✓ integrated KUYA visualizations displayed directly within the online article content
- ✓ launched automatically or via web links/buttons
- ✓ data sourced from a web repository or local database



Integrated KUYA element with launch buttons

Key features

Benefits to authors and readers:

- allows integrating large, browseable datasets directly into publications
- replaces supplementary data downloads and external visualization software
- supports collections of datasets and analysis histories
- metadata and in-place editing improve dissemination and impact of research

Benefits to publishers:

- advanced web-only features bring added value to internet publications
- longer stays at websites allows tracking of reader activity
- integrated data archive increases publication lifespan and improves reproducibility of research
- written in plain JavaScript, KUYA runs natively in any modern web browser with no external dependencies

For more information and live demos, see <https://kuya.app>.



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