Vitax

Vitax User Evaluation
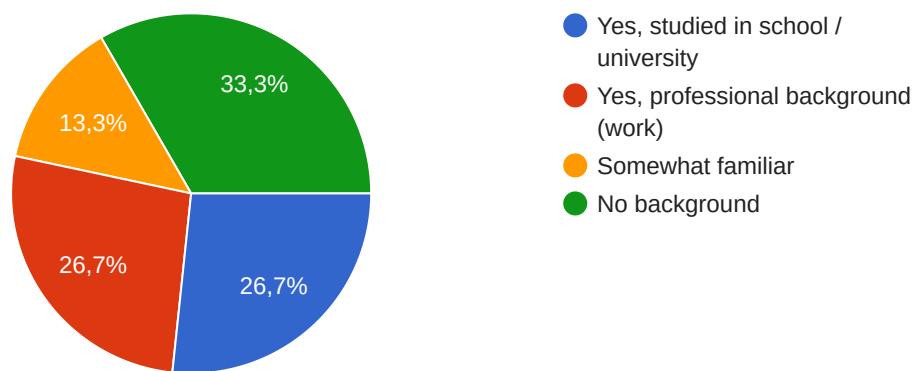
15 Antworten

Background Information

Do you have a background in biology or life sciences?

Kopieren

15 Antworten

- 🔵 Yes, studied in school / university
- 🔴 Yes, professional background (work)
- 🟠 Somewhat familiar
- 🟢 No background

Pie chart values: 33,3%, 26,7%, 26,7%, 13,3%
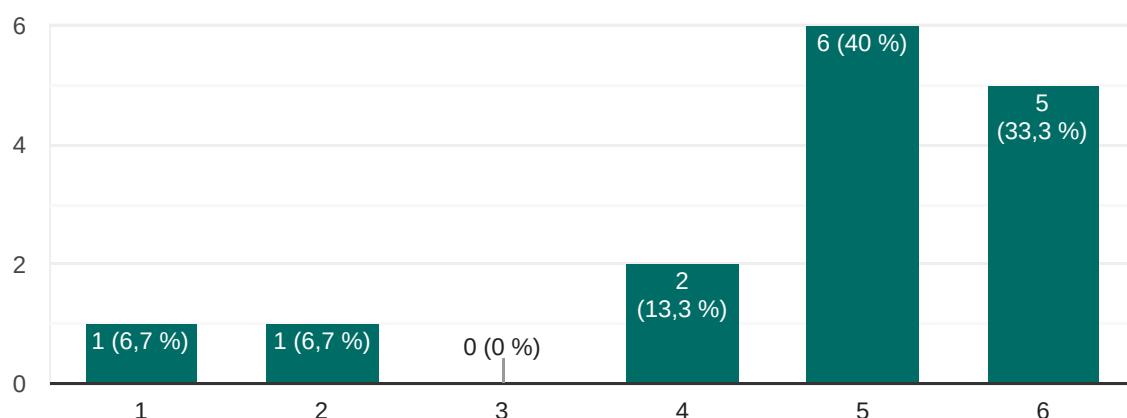
How confident are you in using graphical user interfaces (GUIs)?

Kopieren

15 Antworten

Bar chart:
- 1: 1 (6,7 %)
- 2: 1 (6,7 %)
- 3: 0 (0 %)
- 4: 2 (13,3 %)
- 5: 6 (40 %)
- 6: 5 (33,3 %)
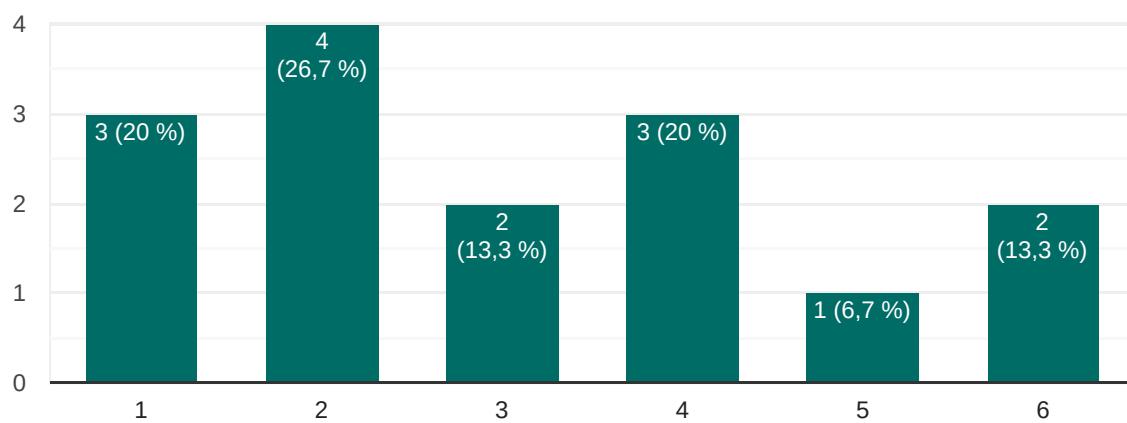
How confident are you in using **command-line interfaces (CLIs)**?

15 Antworten

Value	Count
1	3 (20 %)
2	4 (26,7 %)
3	2 (13,3 %)
4	3 (20 %)
5	1 (6,7 %)
6	2 (13,3 %)
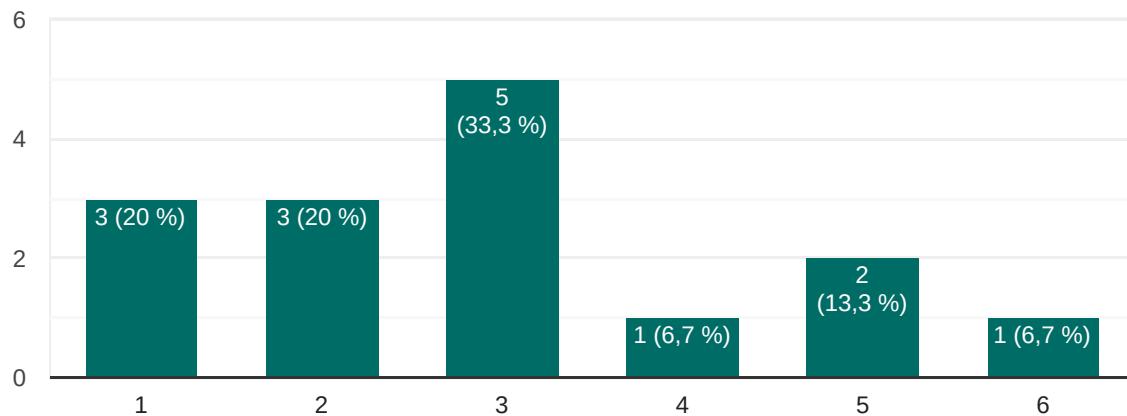
How much experience do you have with **programming**?

15 Antworten

| Value	Count
1	3 (20 %)
2	3 (20 %)
3	5 (33,3 %)
4	1 (6,7 %)
5	2 (13,3 %)
6	1 (6,7 %)
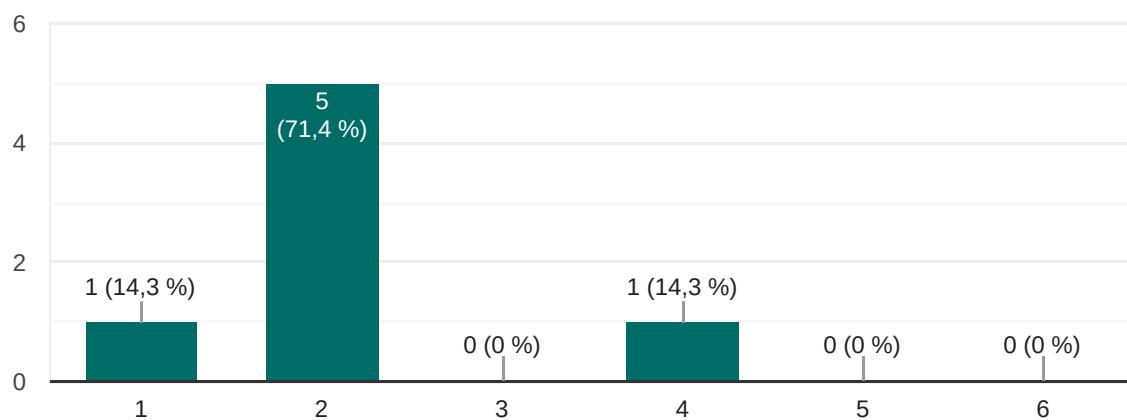
General: **Background Information**

How often do you encounter information about **species**, **organisms** or **taxonomic classifications**?

7 Antworten

Value	Count
1	1 (14,3 %)
2	5 (71,4 %)
3	0 (0 %)
4	1 (14,3 %)
5	0 (0 %)
6	0 (0 %)
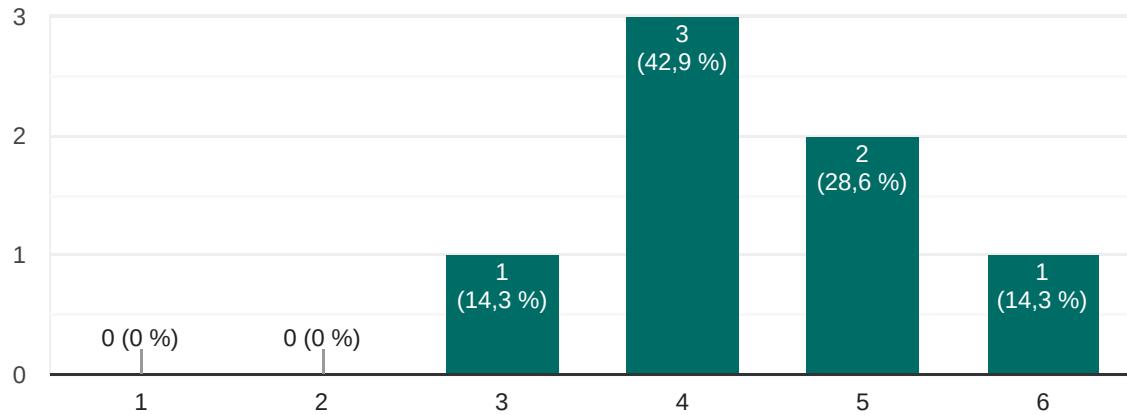
When you first opened Vitax, the **interface** was:
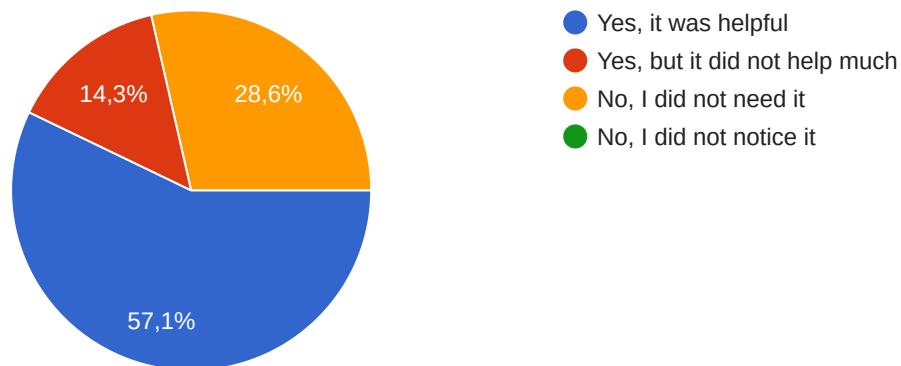
7 Antworten

Did you use the **tutorial**?

Kopieren

7 Antworten

- Yes, it was helpful
- Yes, but it did not help much
- No, I did not need it
- No, I did not notice it

14,3%

28,6%

57,1%
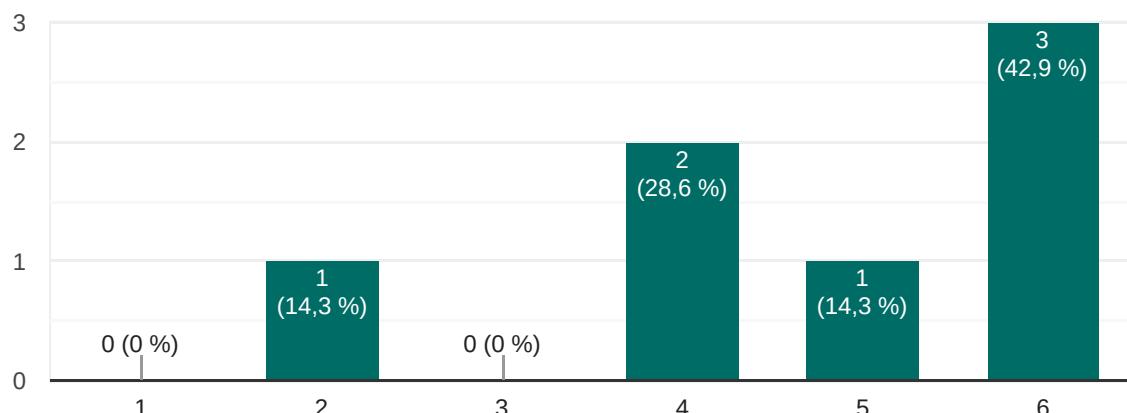
How easy was it to **search** for an taxon?

Kopieren
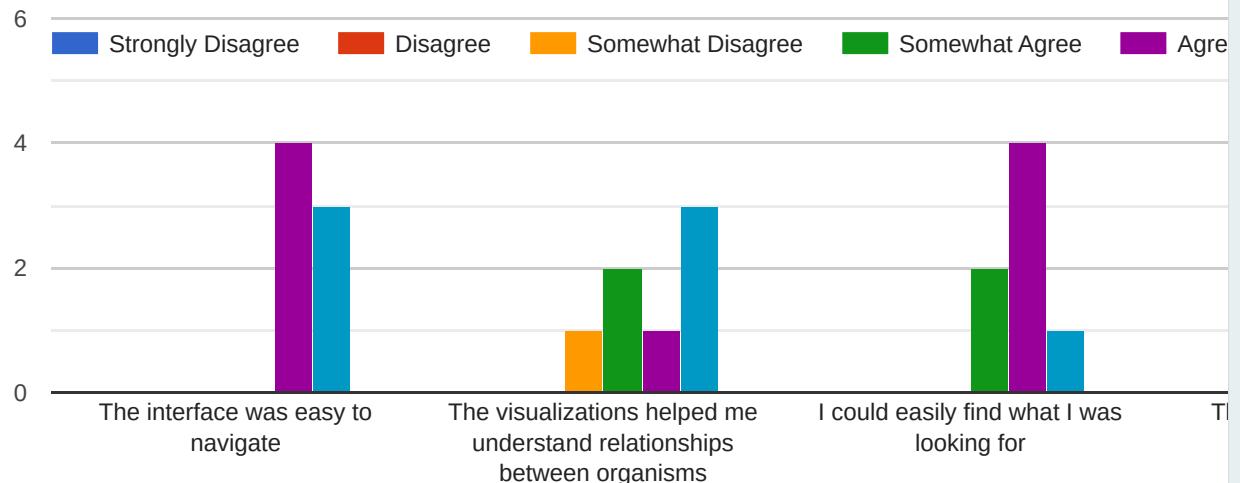
7 Antworten

General: **Usability**

Rate the following statements about the **usability** of Vitax: [⧉ Kopieren]

Legend: Strongly Disagree · Disagree · Somewhat Disagree · Somewhat Agree · Agree

Categories: The interface was easy to navigate · The visualizations helped me understand relationships between organisms · I could easily find what I was looking for
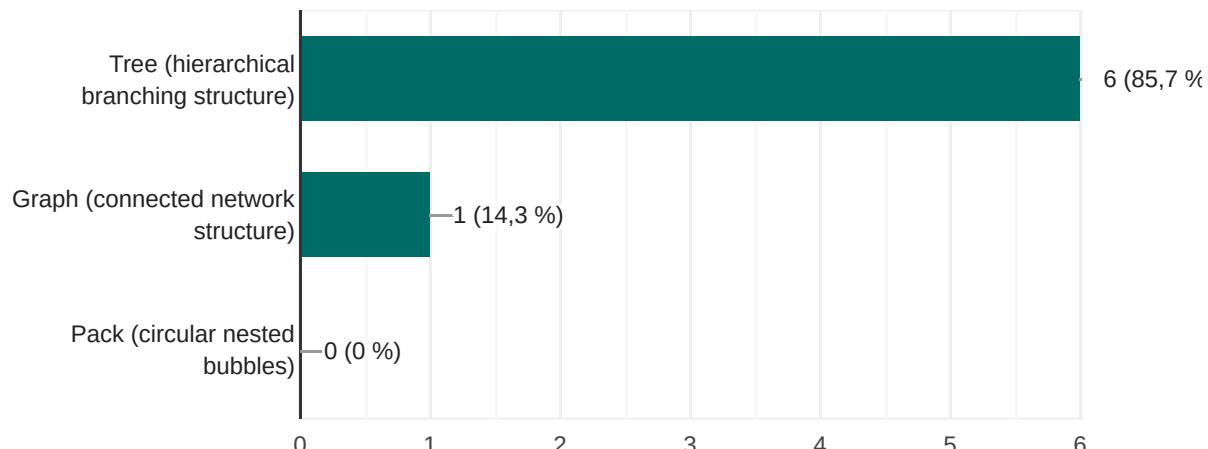
General: **Features**

Which **visualizations** did you prefer? (Skip if no preference)   [⧉ Kopieren]

7 Antworten

- Tree (hierarchical branching structure): 6 (85,7 %)
- Graph (connected network structure): 1 (14,3 %)
- Pack (circular nested bubbles): 0 (0 %)
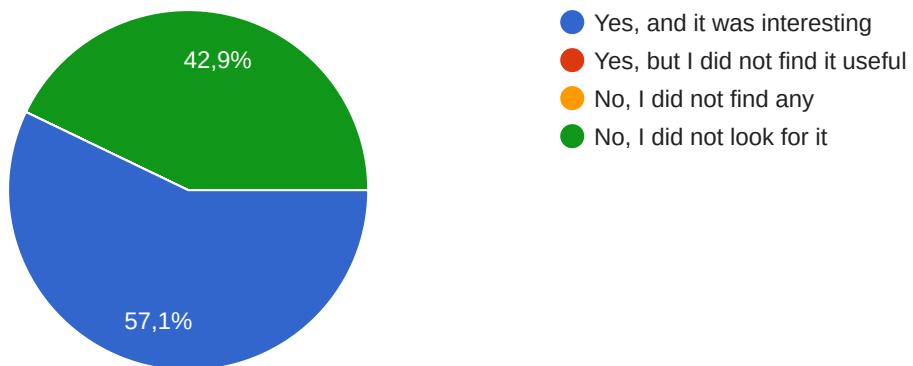
Did you discover any **additional information** about taxa (e.g. links, publications, accessions)?

7 Antworten

- 🔵 Yes, and it was interesting
- 🔴 Yes, but I did not find it useful
- 🟠 No, I did not find any
- 🟢 No, I did not look for it

42,9%

57,1%
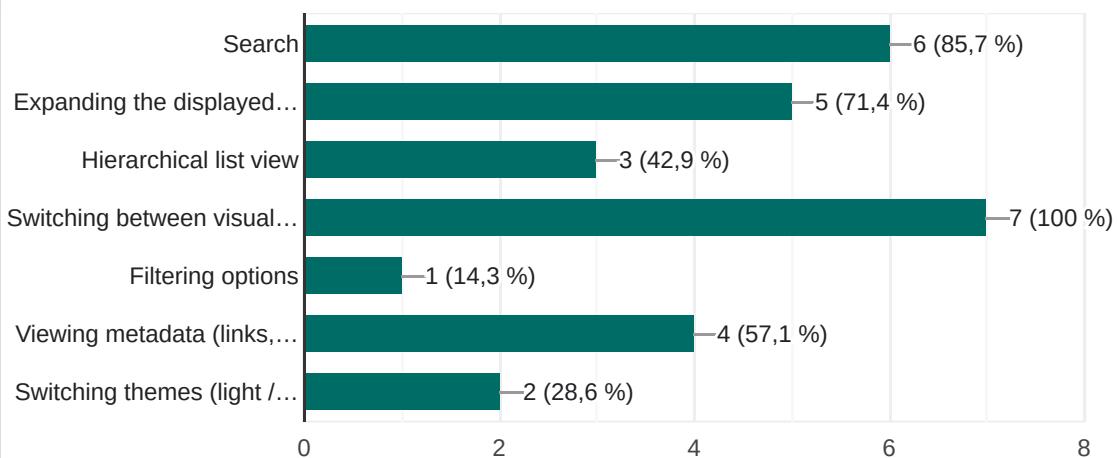
Which **features** did you interact with?

7 Antworten

| Feature	Value
Search	6 (85,7 %)
Expanding the displayed…	5 (71,4 %)
Hierarchical list view	3 (42,9 %)
Switching between visual…	7 (100 %)
Filtering options	1 (14,3 %)
Viewing metadata (links,…	4 (57,1 %)
Switching themes (light /…	2 (28,6 %)
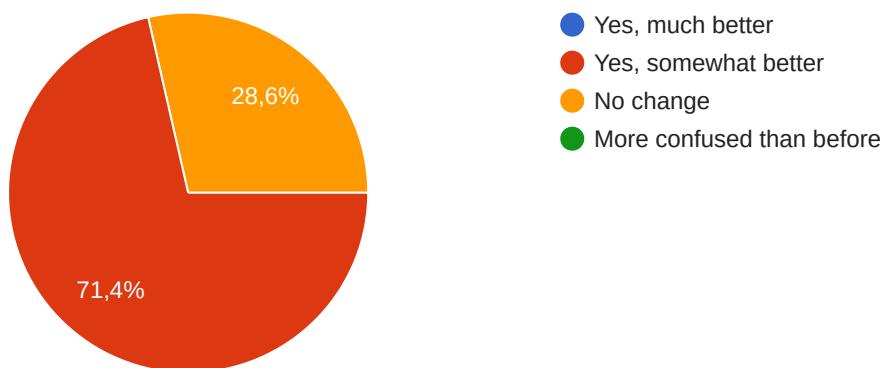
General: **Understanding & Learning**

After using Vitax, do you feel you **better understand** how organisms are related to each other?

7 Antworten

- 🔵 Yes, much better
- 🔴 Yes, somewhat better
- 🟠 No change
- 🟢 More confused than before

28,6%

71,4%

If you tried to do something but **could not figure out how**, please describe it:
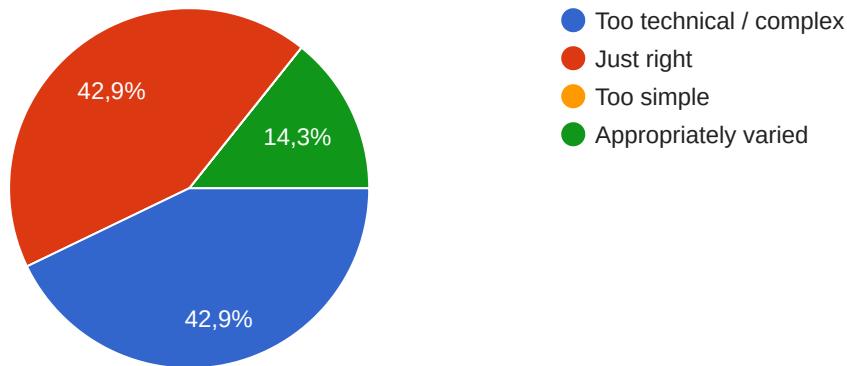
1 Antwort

> It took me a while to get used to using the right mouse button for more information. Intuitively, I would select a node with the left button

Did you find the **information presented**...

7 Antworten

- Too technical / complex
- Just right
- Too simple
- Appropriately varied

42,9%
42,9%
14,3%
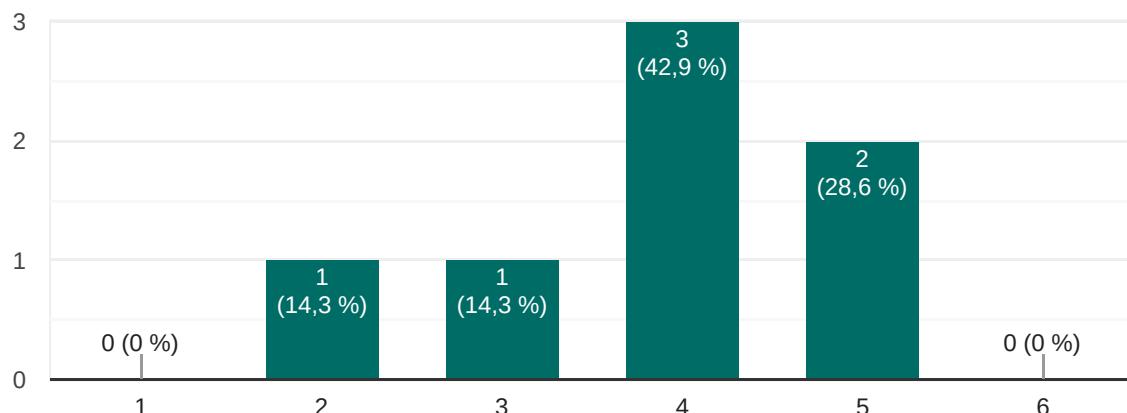
Did exploring Vitax make you **curious** about taxa or topics you were not initially interested in?
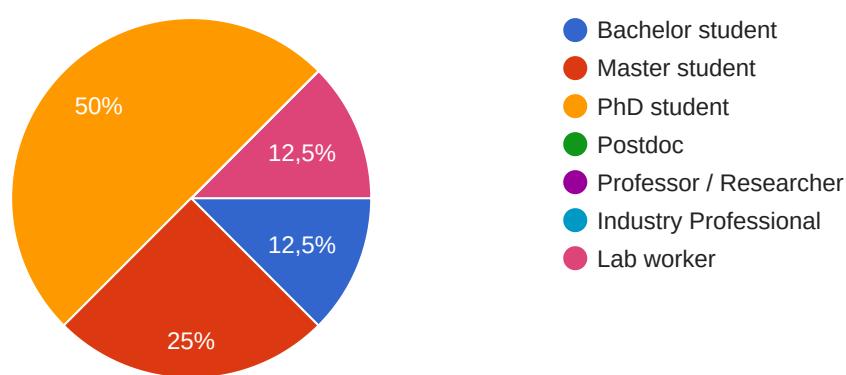
7 Antworten

Experienced: **Background Information**

What is you current **role / position**?
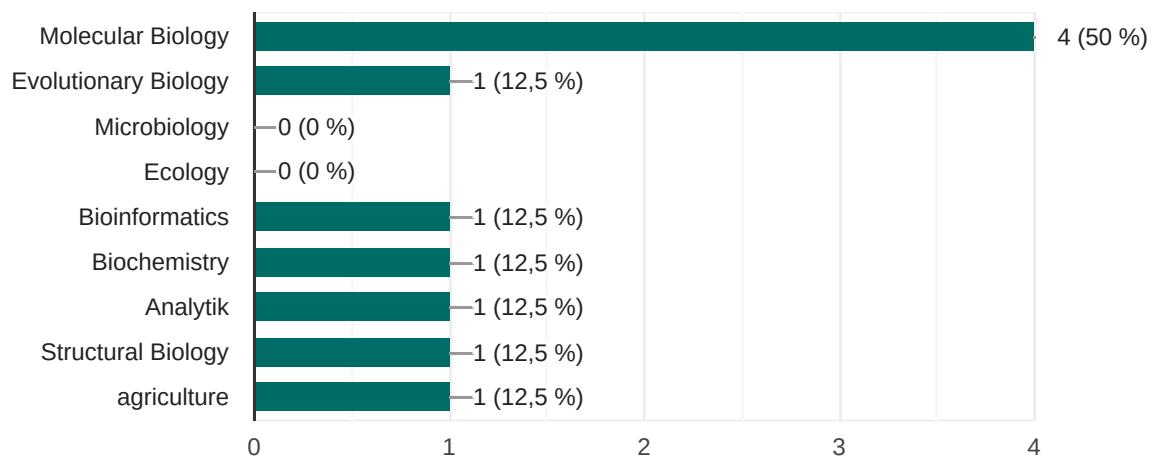
8 Antworten

- Bachelor student
- Master student
- PhD student
- Postdoc
- Professor / Researcher
- Industry Professional
- Lab worker

50%
12,5%
12,5%
25%

What is your field of **expertise**?

8 Antworten

Field	Count
Molecular Biology	4 (50 %)
Evolutionary Biology	1 (12,5 %)
Microbiology	0 (0 %)
Ecology	0 (0 %)
Bioinformatics	1 (12,5 %)
Biochemistry	1 (12,5 %)
Analytik	1 (12,5 %)
Structural Biology	1 (12,5 %)
agriculture	1 (12,5 %)
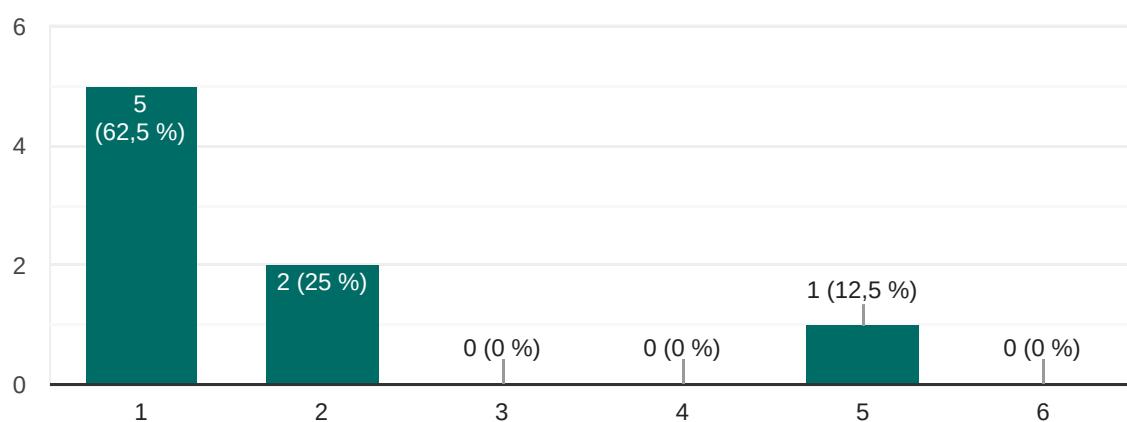
How **often** do you work with taxonomic data?

8 Antworten

Value	Count
1	5 (62,5 %)
2	2 (25 %)
3	0 (0 %)
4	0 (0 %)
5	1 (12,5 %)
6	0 (0 %)
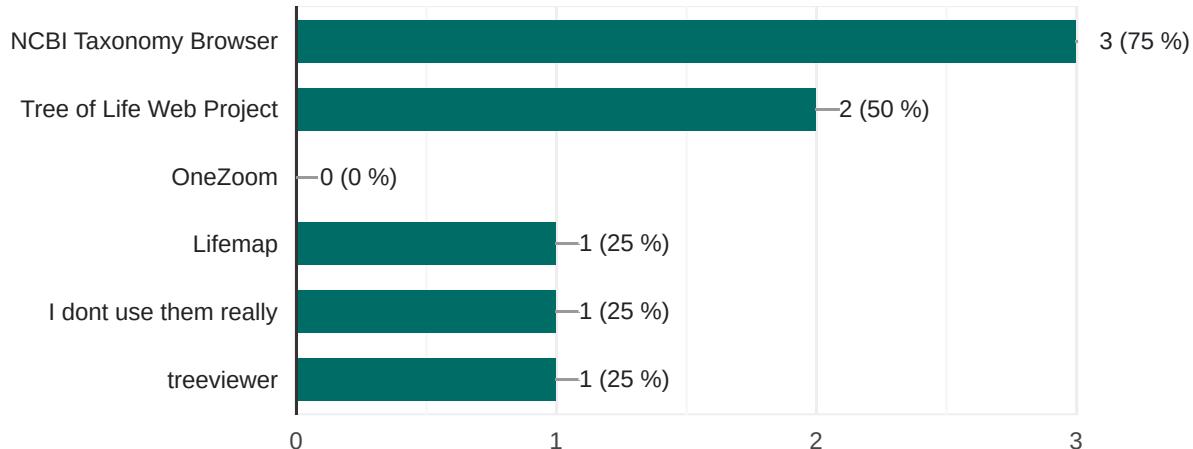
Which **tools** do you currently use for exploring taxonomic relationships? (Skip if none)

4 Antworten

Tool	Count
NCBI Taxonomy Browser	3 (75 %)
Tree of Life Web Project	2 (50 %)
OneZoom	0 (0 %)
Lifemap	1 (25 %)
I dont use them really	1 (25 %)
treeviewer	1 (25 %)
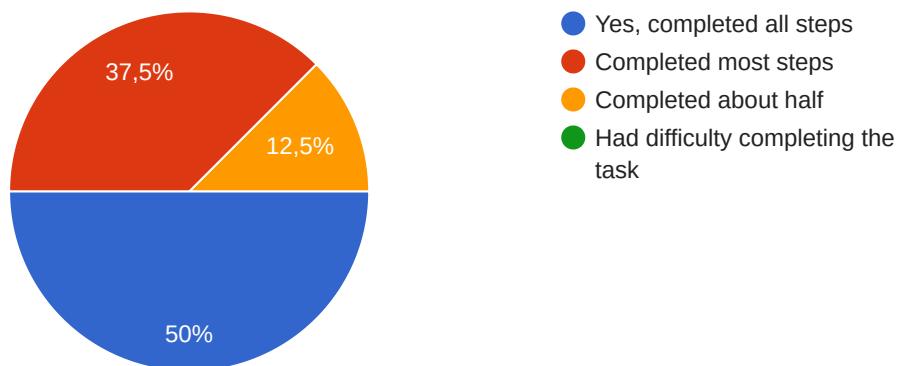
## Experienced: **Task**

Experienced: **Task Experience**

Were you **able to complete** all steps of the task?

8 Antworten

- 🔵 Yes, completed all steps — 50%
- 🔴 Completed most steps — 37,5%
- 🟠 Completed about half — 12,5%
- 🟢 Had difficulty completing the task
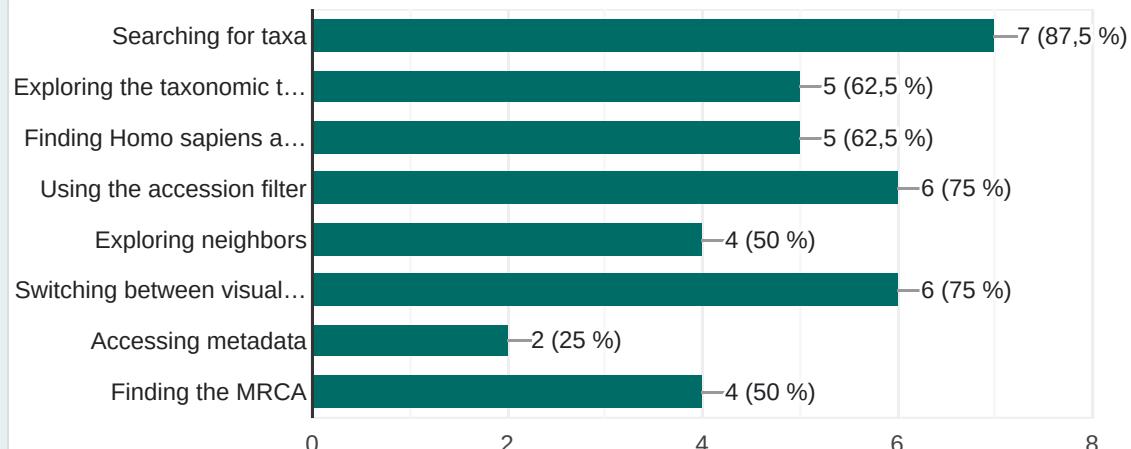
Which steps were **easiest** to complete?

8 Antworten

Step	Count
Searching for taxa	7 (87,5 %)
Exploring the taxonomic t…	5 (62,5 %)
Finding Homo sapiens a…	5 (62,5 %)
Using the accession filter	6 (75 %)
Exploring neighbors	4 (50 %)
Switching between visual…	6 (75 %)
Accessing metadata	2 (25 %)
Finding the MRCA	4 (50 %)
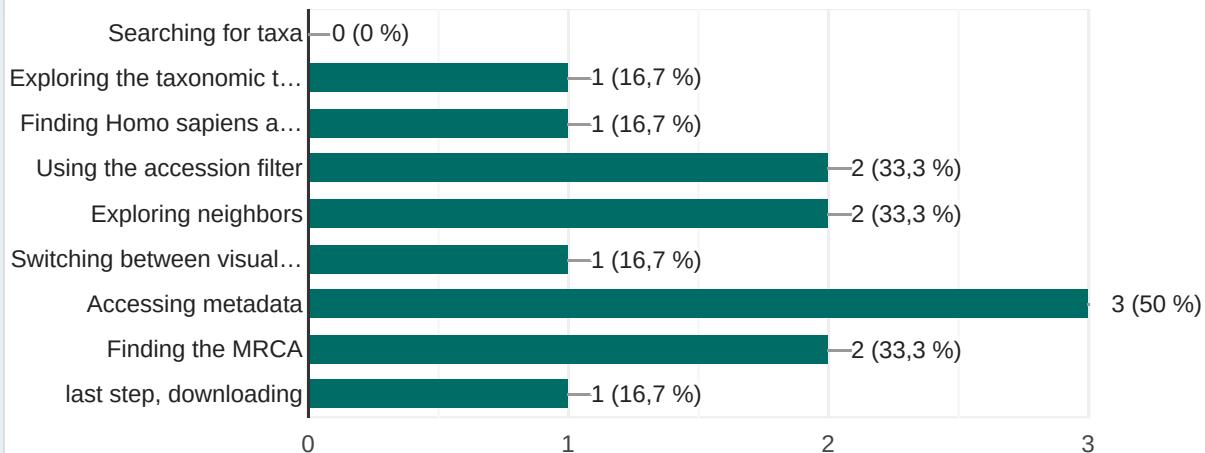
Which steps were **most challenging** or **unclear**? (Skip if none)

Kopieren

6 Antworten

Step	Count
Searching for taxa	0 (0 %)
Exploring the taxonomic t…	1 (16,7 %)
Finding Homo sapiens a…	1 (16,7 %)
Using the accession filter	2 (33,3 %)
Exploring neighbors	2 (33,3 %)
Switching between visual…	1 (16,7 %)
Accessing metadata	3 (50 %)
Finding the MRCA	2 (33,3 %)
last step, downloading	1 (16,7 %)
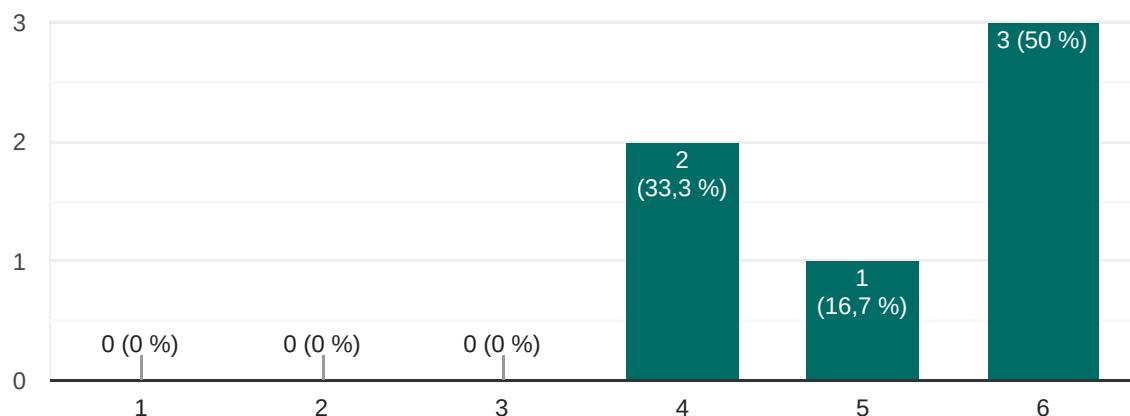
## How useful was the **neighbors functionality** for exploring related taxa? (Skip if you did not use it)

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6 Antworten

Rating	Count
1	0 (0 %)
2	0 (0 %)
3	0 (0 %)
4	2 (33,3 %)
5	1 (16,7 %)
6	3 (50 %)
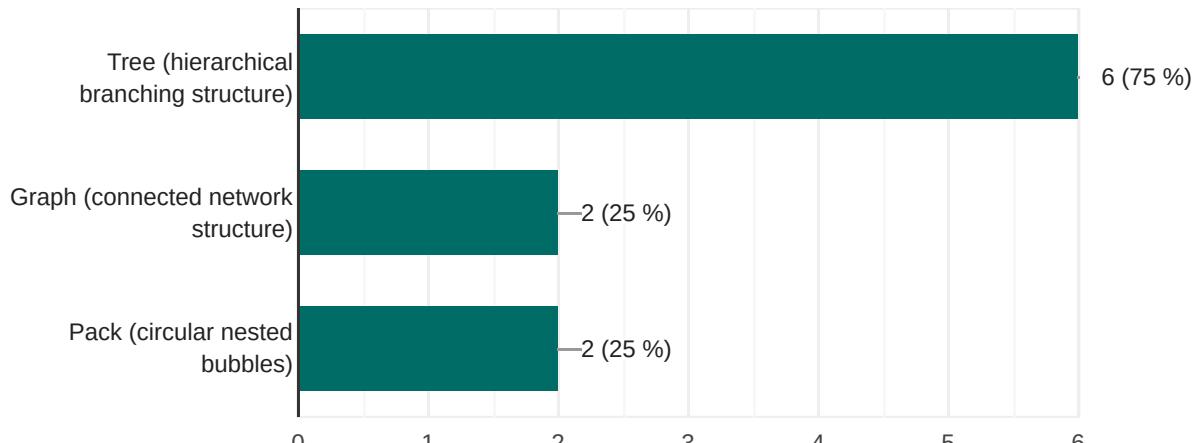
## Which **visualizations** did you find most effective for this task? (Skip if no preference)

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8 Antworten

| Visualization	Count
Tree (hierarchical branching structure)	6 (75 %)
Graph (connected network structure)	2 (25 %)
Pack (circular nested bubbles)	2 (25 %)
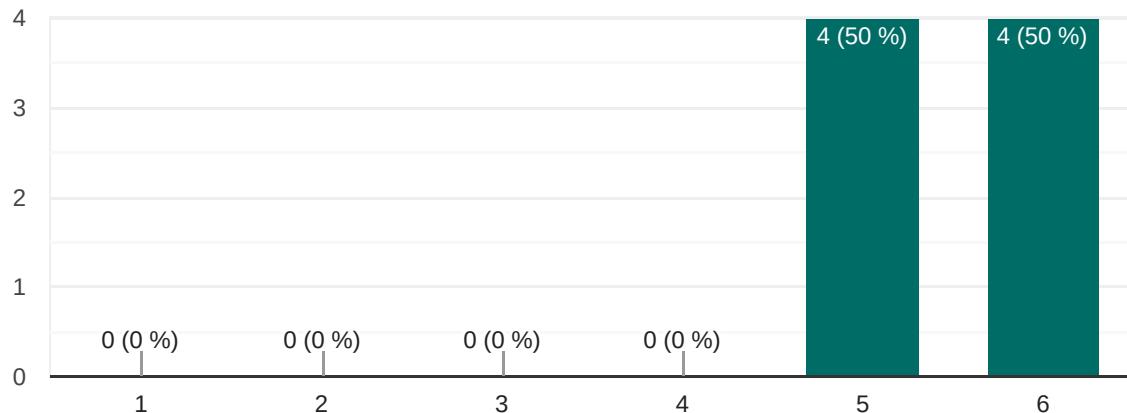
How useful was the **accession filter** in helping you identify relevant taxa quickly? (Skip if you did not use it)

Kopieren

8 Antworten

Bar chart:
- 1: 0 (0 %)
- 2: 0 (0 %)
- 3: 0 (0 %)
- 4: 0 (0 %)
- 5: 4 (50 %)
- 6: 4 (50 %)
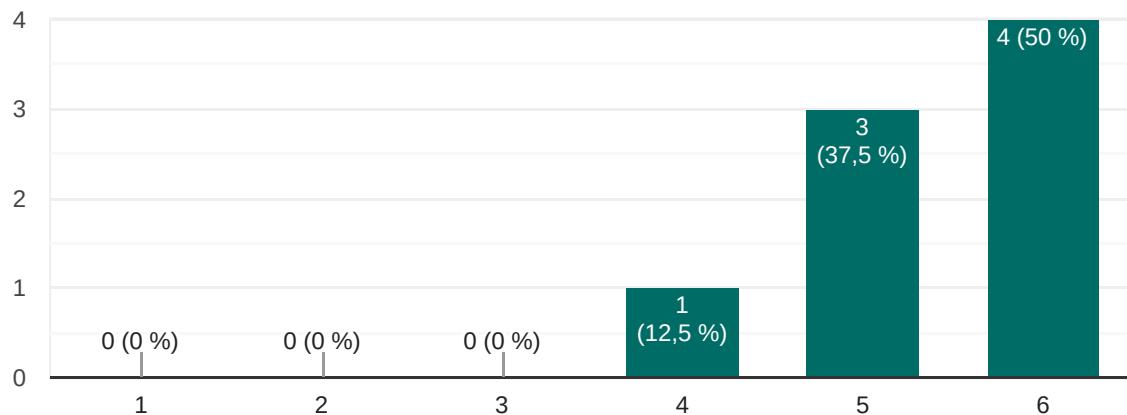
Overall, how well did Vitax **support** completing this biological task?

Kopieren

8 Antworten

Bar chart:
- 1: 0 (0 %)
- 2: 0 (0 %)
- 3: 0 (0 %)
- 4: 1 (12,5 %)
- 5: 3 (37,5 %)
- 6: 4 (50 %)

Any **additional comments** about the task experience?

2 Antworten

> Nice Job :D

> I really liked that you could do a little tour of the site before you start. I think "starting" was the hardest part, especially if you haven't used Vitax before. But once you start and get a little bit used to it, it's actually quite intuitive.
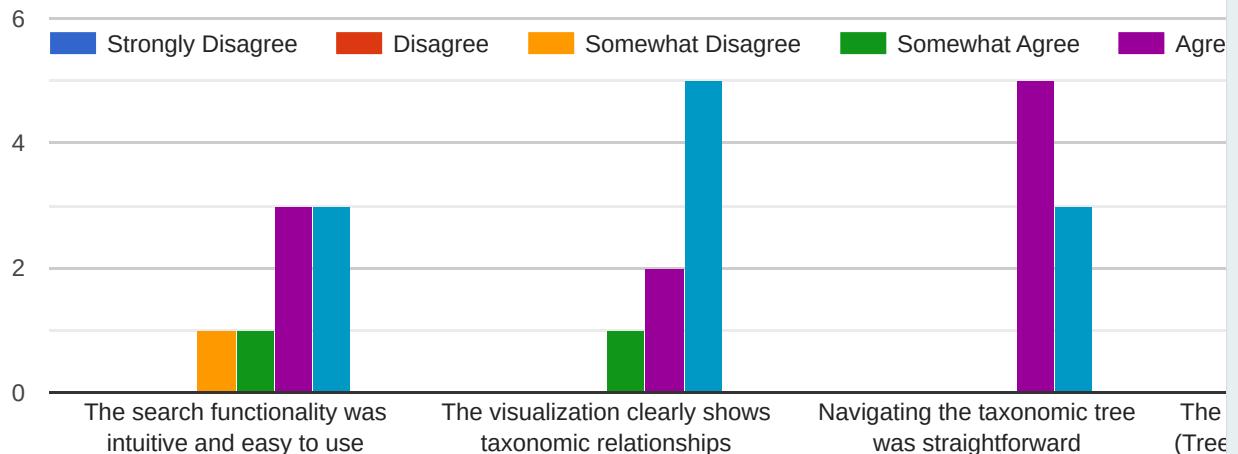
Experienced: Usability & Functionality

Rate the following statements about the **usability** and **functionality** of Vitax (Skip questions that you can not answer because you did not use the feature):

Legend: Strongly Disagree, Disagree, Somewhat Disagree, Somewhat Agree, Agre...

Categories: The search functionality was intuitive and easy to use | The visualization clearly shows taxonomic relationships | Navigating the taxonomic tree was straightforward | The (Tree...
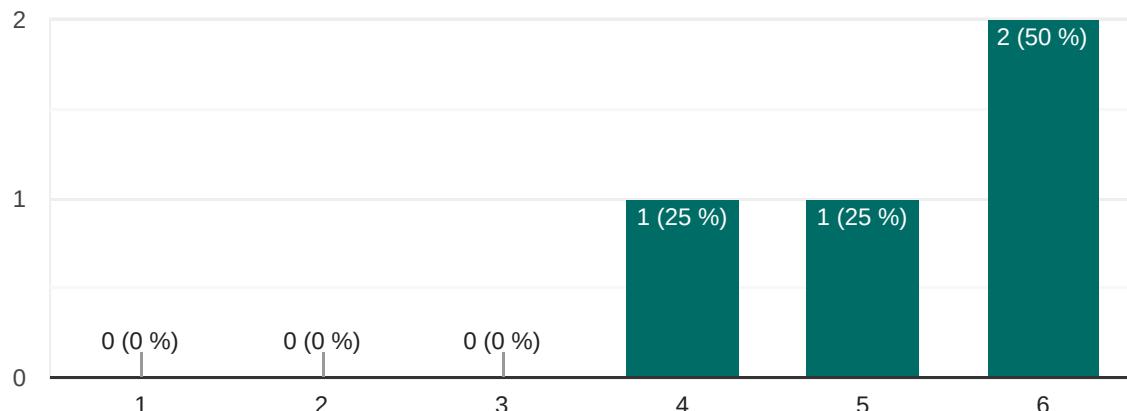
Experienced: **Comparison with other Tools**

How does Vitax **compare** to other taxonomic visualization tools you have used?

4 Antworten

1: 0 (0 %)
2: 0 (0 %)
3: 0 (0 %)
4: 1 (25 %)
5: 1 (25 %)
6: 2 (50 %)

What **advantages** does Vitax offer compared to other taxonomic tools that you have used?

4 Antworten

free to use, intuitive, easy to get started

It has a better GUI and much more convenient access to metadata, especially genomic assemblies, compared to NCBI Taxonomy Browser

Better Suggestions how to use

The design is not overwhelming and the functions are quite intuitive.

What **features from other tools** would you like to see in Vitax?

4 Antworten

plotting / downloading of path as a graphic

Export trees as nwk and svg/png
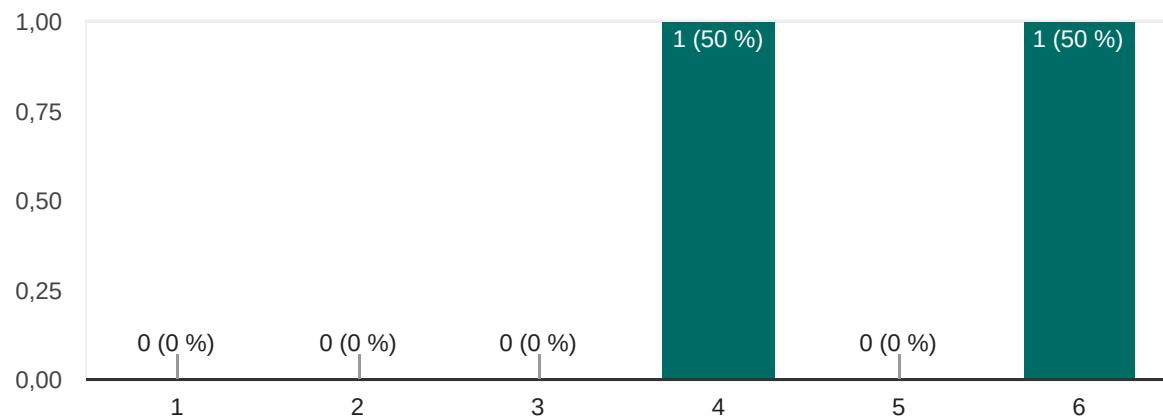
Degree of relation?

Maybe you could highlight the connections between two species, when you select them

Vitax is designed to provide features that are usually only accessible from **command-line tools or programming libraries**. How well does it achieve this goal? (Skip if you have not used taxonomic CLI tools or libraries before)

Kopieren

2 Antworten
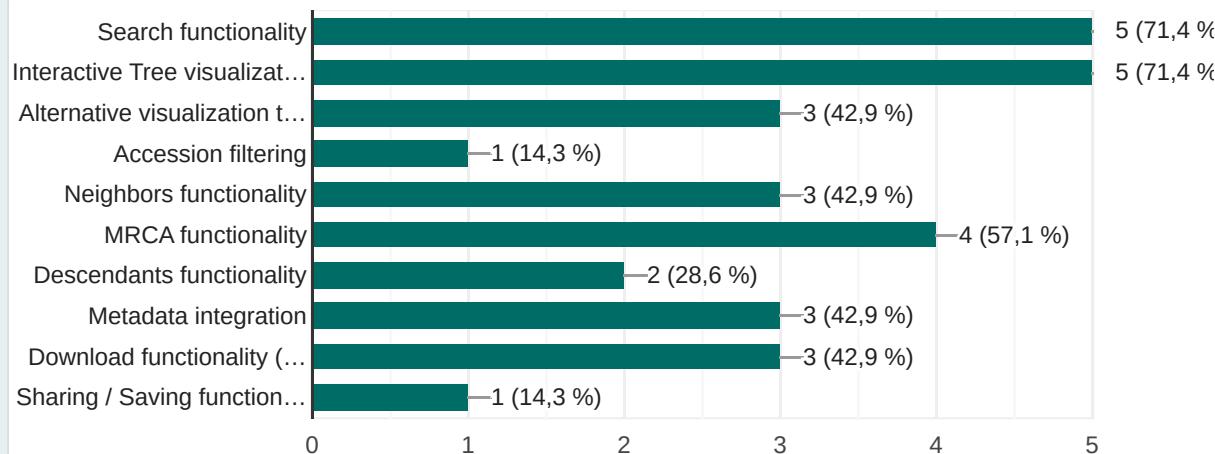
Experienced: **Features & Improvements**

Which features did you find **most valuable**? (Skip if none)

7 Antworten

Feature	Count
Search functionality	5 (71,4 %)
Interactive Tree visualizat…	5 (71,4 %)
Alternative visualization t…	3 (42,9 %)
Accession filtering	1 (14,3 %)
Neighbors functionality	3 (42,9 %)
MRCA functionality	4 (57,1 %)
Descendants functionality	2 (28,6 %)
Metadata integration	3 (42,9 %)
Download functionality (…	3 (42,9 %)
Sharing / Saving function…	1 (14,3 %)

Were there any **missing features**, that would enhance your workflow?

3 Antworten

downloading tree as graphic

Modifiable Export for figures

highlighting paths between selected species

If you encountered any **bugs, errors or confusing behaviour**, please describe it:

5 Antworten

after changing query and clicking visualize, the labels were gone. reloading fixed it

Could you show the location of the taxonomic filter button during the tutorial

Sometimes only a dot appears

- Sometimes I had to refresh the page because the tree did not render correctly. - The page did not load after trying to visualize a big family (e.g. Tetrapoda).

After the tour there was already something preselected and I only figured out after 2 minutes that if I just start searching I won't finish the task and that I had to refresh before I could start

What would make Vitax **more useful** for your research or teaching?

0 Antworten

Auf diese Frage liegen noch keine Antworten vor.

Overall Experience

Overall, how would you **rate your experience** with Vitax?

15 Antworten

Average rating (4.40)

1	2	3	4	5
⭐	⭐	⭐	⭐	⭐

8

6

4

2

0

0 (0 %)   0 (0 %)   1 (6,7 %)   7 (46,7 %)   7 (46,7 %)
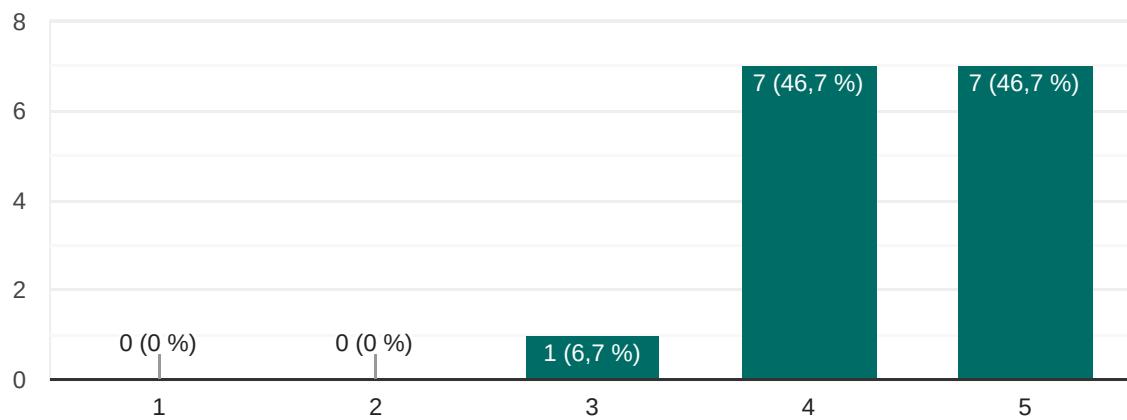
1   2   3   4   5

What was the **most interesting** thing you discovered while using Vitax?

2 Antworten

That mammoths had different diets per region

that there are so many homi- groups that are all different

What did you like **most** about Vitax?

5 Antworten

Easily accessible abstract/summary of publications

low entry barrier, intuitive, works perfectly for what I want (finding out how distantly related viruses are. this helps me estimating how relevant publications on other viruses are for research on my virus of interest)

Searching for MRAC, Tree visualization

The clear, minimalist design

the design is not overwhelming with all the different functions

## What did you like **least** about Vitax?

2 Antworten
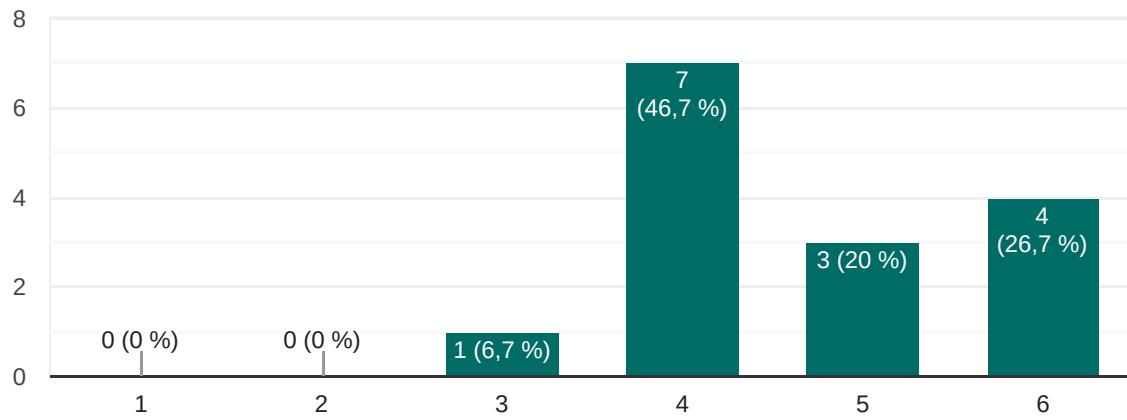
I tried visualizing the neighbors of proboscidea and bipalium (for no apparent reason), and the site loaded for a very long time. I was not sure if it had crashed or if it was really still calculating someting, so a progress bar or something like that for long queries would be helpful

the pack visualization was not so valuable for me, but thats probably just a personal issue, because I am not that used to it

How likely are you to **recommend** Vitax to a friend or colleague?

⬛ Kopieren

15 Antworten

What would make Vitax **more enjoyable** or **useful** for you?

3 Antworten

More backgroung Knowledge

toggle function to include hierarchy in the labels (instead of "Hominidae", it could say "Family: Hominidae". this would help people who dont know taxonomy by heart (me));
plotting functions, potentially even customizable (font sizes, path lengths etc.).

Maybe more backround information about the taxons, for example a direct link/connection to their Wikipedia articles. Or a brief summary on the taxon generated trough AI

Any additional comments or suggestions?

3 Antworten

You need background Knowledge to understand what you Canon do with that tool

Darkmode welcome page had black on black text

Really good job!

Google Formulare