

# Constructive Network Physicalization Follow Up

Hello!

This is a follow-up questionnaire for the network physicalization study you took part in.

We will ask you questions about the individual experience you had during the study.

This is **not** a questionnaire to determine if you paid attention. It serves to **determine how different ways to interact with physical node link diagrams support a users memorization of data.**

Please fill the questionnaire according to what **you** remember. **Do not ask other participants for answers.** If you do not remember the answer to a question, please indicate this.

Please enter your given participant id (**four digit number from the study information sheet you were given**) below.

The study will begin immediately afterwards.

**There will be no time limit**, please take your time to think about the experiment and try to recall as much as you can.

We estimate the time needed to complete this questionnaire is about **15 minutes**.

Please complete this questionnaire **in one sitting**, and **within 4 days** of receiving it.

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\* Indicates required question

1. Participant ID \*

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## Data

The following section contains questions about the **data** you examined in the on-site part of the study.

Please answer **concisely** and as **accurately** as possible.

If you do not remember the exact answer, please respond with your best approximation.

If you do not have **any** answer to a question, please write "do not remember".

2. What kind of **entity** did the nodes in the graph represent? \*

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3. Which **relationship** did the edges in the graph represent? \*

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4. What **applications** can you remember/imagine for the data you examined? \*  
(1 answer per line)

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## Network Characteristics

The following section contains questions about the **the structure of the network** you examined in the on-site part of the study.

Please answer **concisely** and as **accurately** as possible.

If you do not remember the exact answer, please respond with your best approximation.

If you do not have **any** answer to a question, please write "do not remember".

5. Which **global structures** do you remember in the network? \*

Please describe in as much detail as possible. (1 answer per line)

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6. Can you recall **interesting/significant** nodes? What was special about them? \*  
(1 answer per line)

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7. How many **nodes** (entities) did the network consist of? \*

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8. How many **edges** (relationships) did the network consist of? \*

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9. What was the **average node degree** (number of connections per node) in the network? \*

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Study Experience

In the course of the on-site study, you interacted with a toolkit for the construction of physical node-link diagrams.  
In this section we ask you a few questions about your personal experience.

10. Rate the following statements according to your experience. \*

Mark only one oval per row.

	Disagree	Somewhat disagree	Neutral	Somewhat agree	Agree
<b>The presented technique helped me solve the task in a timely manner.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>The presented technique gave me the information that I needed.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>The presented technique helped me understand the data.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>I had trust in the presented technique.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

11. Rate the following statements according to your experience. \*

Mark only one oval per row.

	Disagree	Somewhat disagree	Neutral	Somewhat agree	Agree
<b>I found the presented technique creative</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>I was emotionally affected by the presented technique.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>I found the presented technique intellectually stimulating</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>I found the physical interaction in the presented technique engaging.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>I think the presented technique would be interesting in a social setting (e.g. when interacting with it around other people)</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Debriefing

In this study, we investigated how people interact with constructed node link diagrams. We measure how much **task performance, time, and task load** depend on the way the diagrams are constructed.

In this follow-up we measure **how much information is retained** after the experience of interacting with a constructed node link diagram.

We use the **qualitative data** (the free text statements) given during the experiments, as well as the **videos** to **analyze different ways of reasoning and interacting with physical graphs**.

Thank you again for your participation!

This concludes the study.

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