

Survey procedure and participant training

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Survey procedure

Participants were recruited via advertising on the Figure-Eight crowdsourcing platform. Choosing the task from the list directed all potential participants to the page of instructions. This page contained written instructions and is shown in Fig. ??.

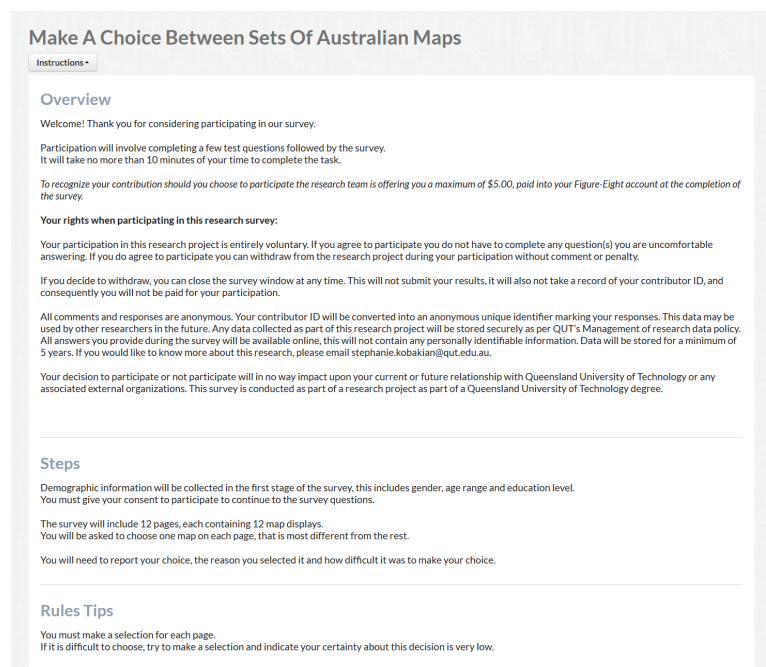


Figure 1: The training lineups of choropleth maps.

Training

The participants were trained using three displays. There were relatively simple lineups, they are displayed in Fig. ?? and Fig. ??.

Survey application

The survey application was a `shinydashboard` application, hosted on a website external to the Figure-Eight platform. The link to the survey was located at the bottom of the instructions and training page. Only participants who had read all of the instructions and seen the example image sets continued to the survey via

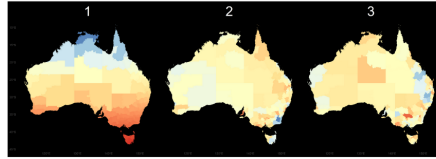
Simple Examples

The sets of images below show three maps of Australia, either a choropleth map or a hexagon tile map. You will see similar maps in the survey. In a choropleth map, geographic regions are colored according to a numerical value. In a hexagon tile map, each hexagon is colored according to a numerical value.

Please look at these images and read the explanations prior to taking the survey.

Set 1:

In this set of three maps of Australia: Which map is most different?

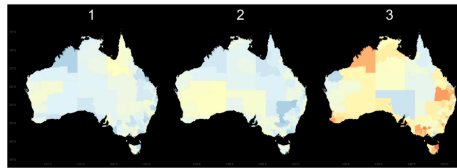


Answer: MAP 1.

This map has many blue areas at the top, and many red areas at the bottom. Tasmania, the island on the bottom right has much more red than the rest of Australia. This is very different to the other maps, which do not show the same color trend from North to South.

Set 2:

In this set of three maps of Australia: Which map is most different?



Answer: MAP 3.

This map has more red and orange areas around the coast.

Figure 2: The training lineups of choropleth maps.

Set 3:

In this set of three maps of Australia: Which map is most different?

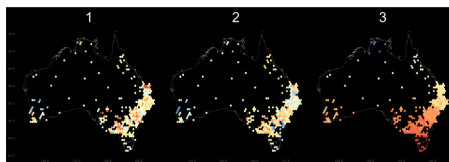


Answer: MAP 2.

This map has a group of red areas near each other. The other two maps are have scattered colors.

Set 4:

In this set of three maps of Australia: Which map is most different?



Answer: MAP 3.

This map has some blue areas at the top, and many red areas at the bottom.

Figure 3: The training lineups of hexagon tile maps.

the link. This page also contained a question that asked participants for a validation code. The participants unique validation code was generated upon them opening the web application. This code was released to participants when they had considered all twelve lineups and submitted their responses to the **googlesheets** data set. Their validation codes were contained in the data set and associated with each of their responses.

The demographic and consent page of the **shinydashboard** web application are displayed in Fig. ?? . Two example lineups are shown, one choropleth map lineup in Fig. ?? and one hexagon tile map lineup in Fig. ??.

taipan

Submit Survey More Info

Demographics

For payment, provide Figure Eight Contributor ID:

id

If you have questions, please contact Stephanie Kohakian - stephanie.kohakian@monash.edu

If you have concerns about the ethical conduct of the research project you can contact the Research Ethics Advisory Team on +61 7 3138 5123 or email humanethics@qut.edu.au

Do you consent to your responses being collected? .

☐ Yes, I consent to my responses being used for research purposes and allow them to be published online in a de-identified form.

☐ No, I do not consent to my responses being used for research purposes and allow them to be published online in a de-identified form.

Select your preferred pronoun:

Choose one

Select the highest level of education achieved:

Choose one

Select your age range:

Choose one

Have you lived in Australia?

Choose one

Save Info

Figure 4: The demographics questions tab of the shinydashboard survey application.

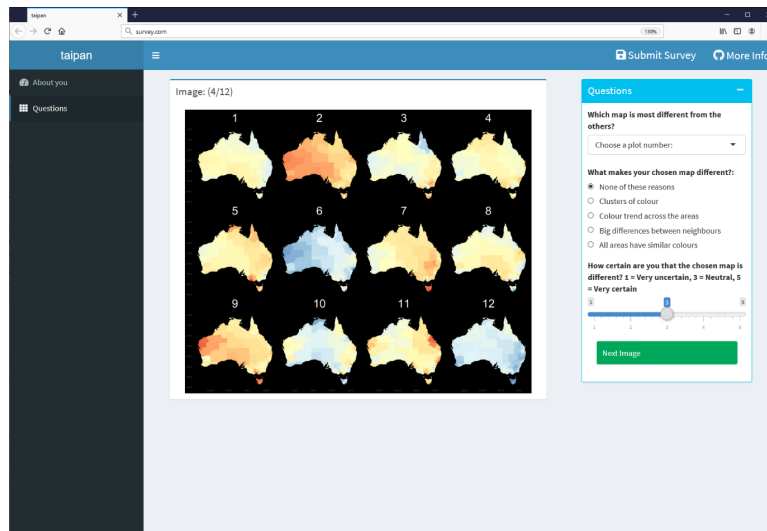


Figure 5: An example of the choropleth map lineup shown in the survey tab of the shinydashboard app.

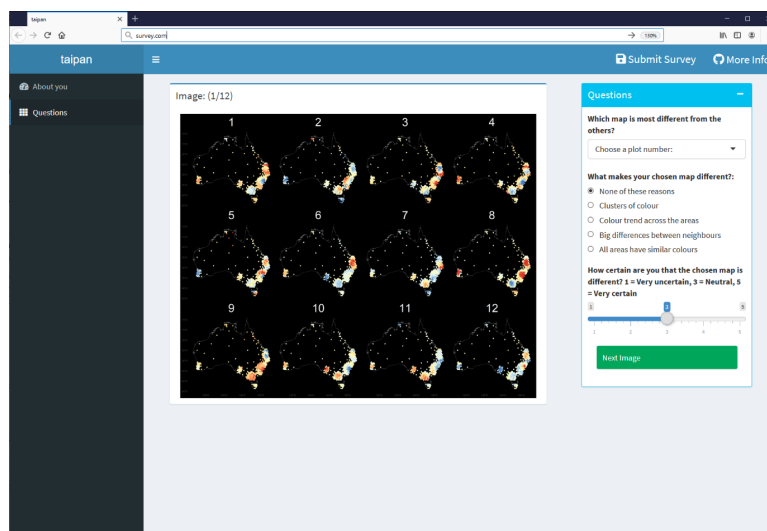


Figure 6: An example of the hexagon tile map lineup shown in the survey tab of the shinydashboard app.