

FOR6934 Visualization in the Era of Big Ecological Data

Grading Rubric

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Name:

Assignment: Storyboard (final project)

Description:

You will create a 'storyboard' to convey the message of your data and/or analysis visually. The storyboard will consist of 3-4 publication-quality figures (according to the guidelines of a journal of your choice) with captions, and a written summary that explains the goal of the storyboard. The storyboard should follow a logical order such as introduction to the data / research area / research topic, insight and/or analysis of data, and the main message of the data / analysis¹. All types of visualization are allowed, e.g. conceptual diagrams, maps, graphs, etc. Animations are allowed if the journal of your choice offers it as an option.

You will also present your storyboard as a slideshow to your peers – which might require adjustments to the figures.

We will not specifically grade your code – but make sure it works (restart R and clear your environment). If your script needs to read in large datasets, send us a message before submission.

You will submit the following components:

- the storyboard as a Word or pdf² document (summary, figures and captions);
- the figures in their original format (as required by the journal of your choice);
- a slideshow with the figures;
- code (.R or .Rmd files).

| Dimension | Criteria (points) | Comments | Points |
|-----------|---|----------|--------|
| Summary | <ul style="list-style-type: none">• Main message (goal) of the storyboard is articulated• Brief description of the study system• Questions / hypotheses being addressed• Methods (briefly)• (Expected) results | | 10 |
| Figure 1 | <ul style="list-style-type: none">• Introduces data / research area• Chart type matches data type• Appropriate labels of axes, scale and legend• Clear annotations• No clutter• Colorblind-friendly color scheme• Adheres to journal requirements• Correct file format | | 10 |

¹ It is not required to include an analysis. If you are not at the stage of analysis with your data, a simple overview of patterns or relationship suffices. We do not grade analysis / methods.

² If you use RMarkdown, you can use it to create these documents (or an html), and you can submit the .Rmd as the code.

| | | | |
|--------------------------|---|--|---------|
| Figure 2 | <ul style="list-style-type: none"> • Conveys message (pattern / relationship / compare / contrast / change / variability) • Chart type matches data type • Appropriate labels of axes, scale and legend • Clear annotations • No clutter • Colorblind-friendly color scheme • Adheres to journal requirements • Correct file format | | 10 |
| Figure 3 | <ul style="list-style-type: none"> • Conveys message (pattern / relationship / compare / contrast / change / variability) • Chart type matches data type • Appropriate labels of axes, scale and legend • Clear annotations • No clutter • Colorblind-friendly color scheme • Adheres to journal requirements • Correct file format | | 10 |
| Figure 4 (if applicable) | <ul style="list-style-type: none"> • Conveys message (pattern / relationship / compare / contrast / change / variability) • Chart type matches data type • Appropriate labels of axes, scale and legend • Clear annotations • No clutter • Colorblind-friendly color scheme • Adheres to journal requirements • Correct file format | | (10) |
| Slideshow | <ul style="list-style-type: none"> • Figure 1 appropriately adjusted: colors, legibility of text, simplification • Figure 2 appropriately adjusted • Figure 3 appropriately adjusted • Figure 4 appropriately adjusted (if applicable) | | 10 |
| Presentation | <ul style="list-style-type: none"> • Clarity • Length • Aesthetics | | 10 |
| Overall storyboard | <ul style="list-style-type: none"> • Logical flow • Coherence | | 10 |
| | TOTAL | | 70 (80) |