Review of Part One

Please seat yourselves in every other row so the NINJAs and instructors can circulate easily among you.

Today's Agenda

Today we'll review some key ideas from the first part of the course, work through an example project topic and computational essay, and critique the example project using our assessment criteria.

Debugging

What are the six Rs of debugging?

Modeling Process

Our review of the modeling process (based on the computational tools summarized in Chapter 10) is intended as, yes, a review. But in today's discussion, was anything new to you? Anything you noticed or understood differently as you're working on your own project?

The Demographic Transition

We've built an example model incorporating the demographic transition and we're comparing our results to the data. What do you think about the comparison?

If you were to iterate on this model, what would you try next?

Project Assessment

Thinking about our criteria, how would you assess the example we just worked through? Reminder of criteria:

- Does the question make sense? Does it matter? Does it fall into any pitfalls?
- Does the model make sense? Are the decisions reasonable and justified? Can it do work?
- Do the result make sense? Does validation show credibility? Is the code correct? Are results presented clearly?
- Does the interpretation follow from the results? Are limitations recognized and acknowledged?

Reflection Question

Think about your project and our assessment criteria. Where do you think your project needs work? What are the high priorities?

Next Steps

Before class on Tuesday, please do the following things:

☐ Write your name here: _____

☐ By tonight: Scan this worksheet and submit it on Canvas.

☐ Before class tomorrow: Watch Rosling, "Global population growth, box by box": `https://www.ted.com/talks/hans_rosling_on_global_population_growth`.

☐ Also before class tomorrow: With your project partner, prepare for your first instructor check-in.

- As noted in class today, you should bring your project proposal (updated if necessary) and a *printed* copy of a Jupyter notebook containing your team's work on the project so far.

☐ Meet in the STUDIOS on Tuesday.