Prediction & Explanation

- explain expectations of model
- well organized essay
- well organized code

predict: make plots to show predictions (diff initial cond)

Explain: variables, values typical (important)

Context for the actual phenomenon

Reproducibility & Well Documented

- properly comment code
- make sure your code is generally useful
  ⇒ explain limits what can be reproduce
- use existing tools that are well doc.

Limitations + Assumptions

What are your limitations?

⇒ explain limits of variables

go ahead make assumptions

⇒ but make transparent

Presentations & Validation

phase space diagrams & trajectories

⇒ compare to analytical

⇒ consider linearization to check closeness

$\sin x \approx x$

⇒ compare to existing models (plots)

⇒ compare to data (simulation)

Collaboration