

# It May be Deep But Is It Learning?

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## A1. A favorite cartoon

- Lucy: What are you doing, Charlie Brown?

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- Lucy: Don't be stupid, Charlie Brown.  
Dogs can't whistle.

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- Charlie Brown: I'm teaching Snoopy to whistle.
- Lucy: Don't be stupid. Charlie Brown.  
Dogs can't whistle.
- Charlie Brown: I said I was teaching him.  
I didn't say he was learning.

# B1. Riddle: What's this?



## C3. Wheaties, ...



... turtles, ...





# ... and liberal learning

- Infinite regress:

the response to every answer

is a new question: Why?

# Conclusions

- Wheaties, turtles, and  
our moral obligation to disturb
- Data science should teach its essential tension.  
Teach the importance of context.  
Teach abstraction as process.
- Teach through research