

# Small data and differentiable programming: Questions for discussion

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**1. (everyone)** Place a dot on the "coordinate system" on the flipchart, indicating where you would mostly locate your current work:

## Small data

**2. (Groups 1,2,3)** Can you think of examples for "big" and "small" datasets in your discipline or research sub-field?

**3. (Groups 4,5,6)** How would you define "small data" as opposed to big data, what characteristics would you take into account?

## Differentiable programming

**4. (Groups 1,2)** What is the core idea of differentiable programming that you got from the blogpost?

**5. (Groups 3,4)** How does differentiable programming work in practice / what are the necessary core technologies?

**6. (Groups 5,6)** Can you think of an example for a task or an application where you would use something like deep learning, and of a task where you prefer explicit modeling? Why?

**7. (everyone)** Please identify a statement you didn't fully understand, and discuss those in your group. Choose one and write it on a flash card.