Machine Learning: Jordan Boyd-Graber

University of Colorado Boulder

LECTURE 1B

Roadmap

- Introductions
- Content Questions
- Administrivia Questions
- KNN Example
- Homework 1

Outline

Introductions

Outline

Content Questions

Content Questions

Content Questions

Content Questions

Outline

Administrivia Announcements

- If you're not enrolled and there's not physically room in the classroom, please leave
- Offered again next year (perhaps in Spring)

Administrivia Questions

Administrivia Questions

Administrivia Questions

Administrivia Questions

Outline

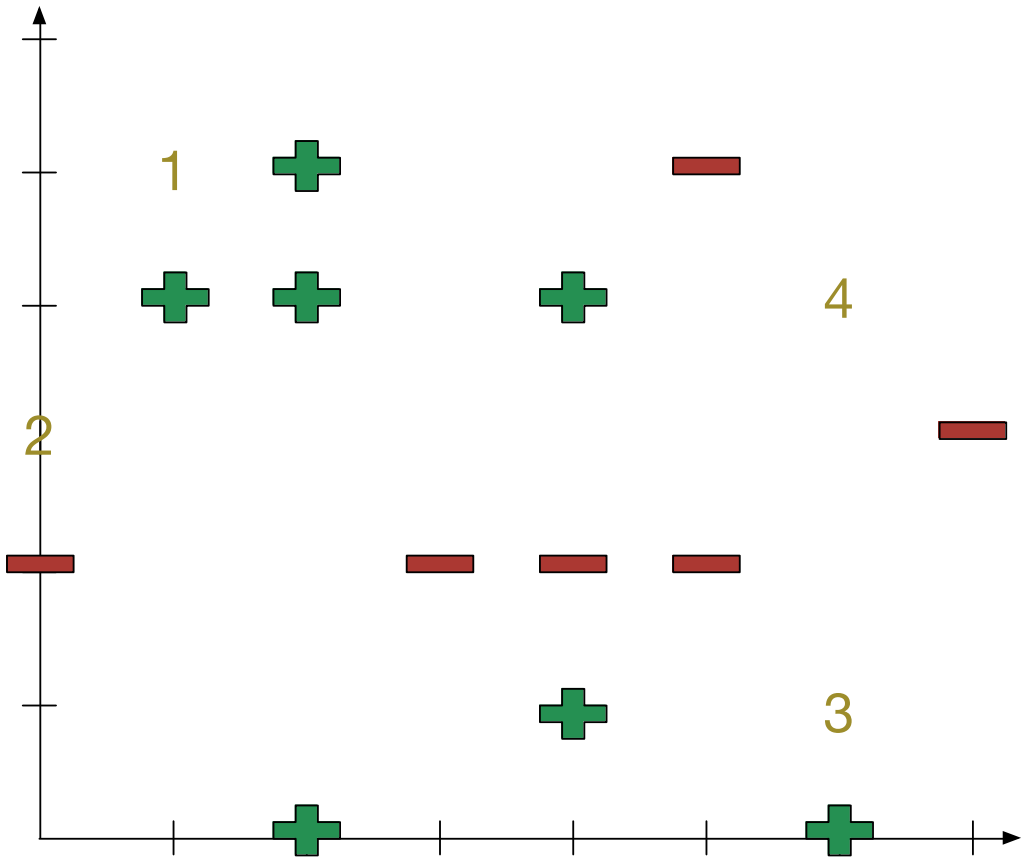
KNN Classification

$K = 1$

What is the prediction of y_1?

Closest points:

Prediction:



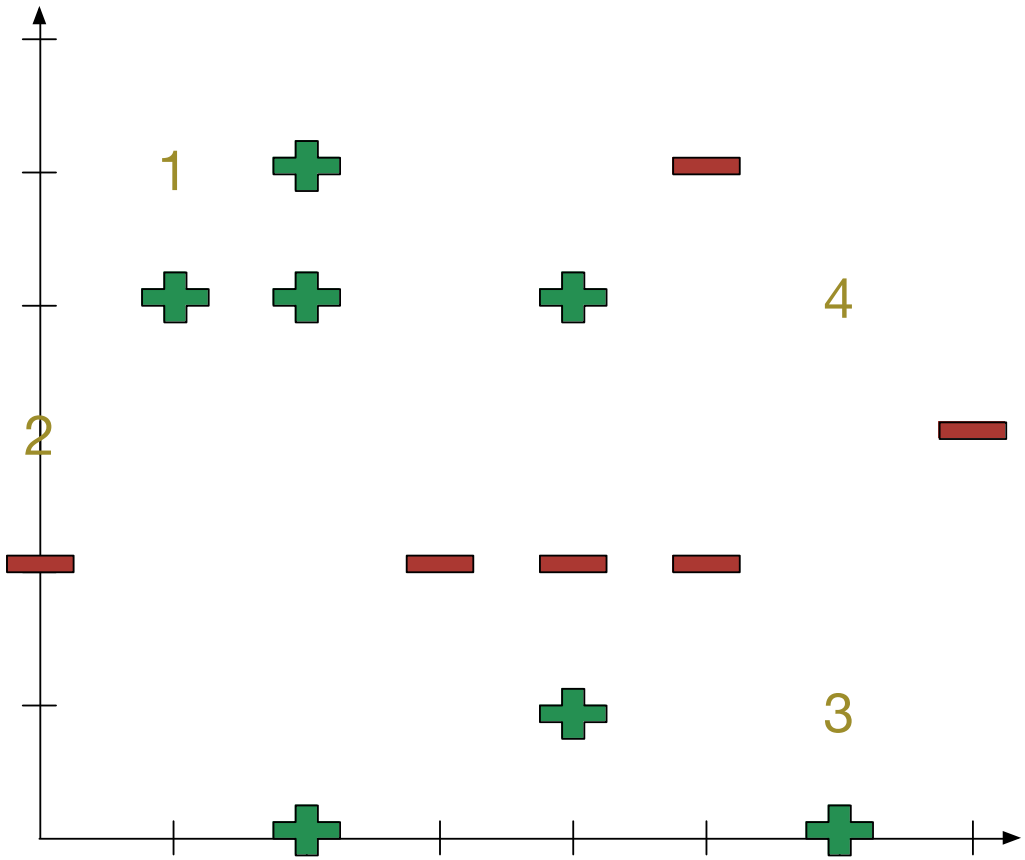
KNN Classification

$K = 1$

What is the prediction of y_2?

Closest points:

Prediction:



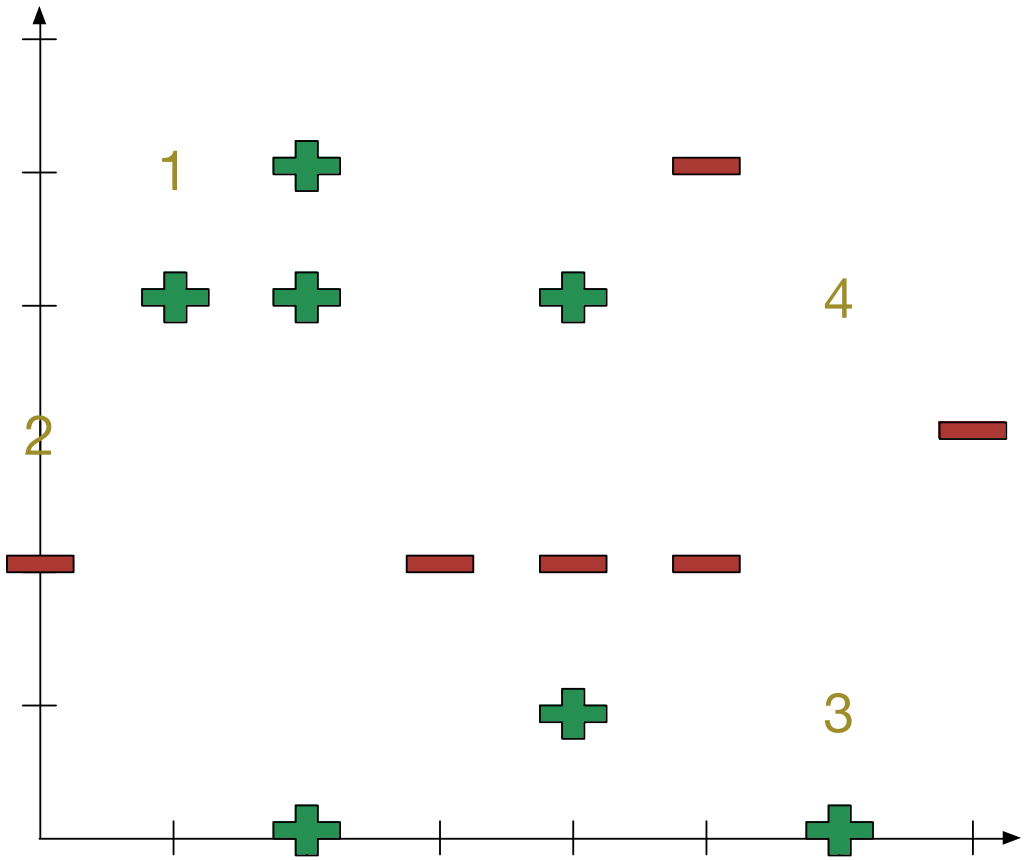
KNN Classification

$K = 1$

What is the prediction of y_3?

Closest points:

Prediction:



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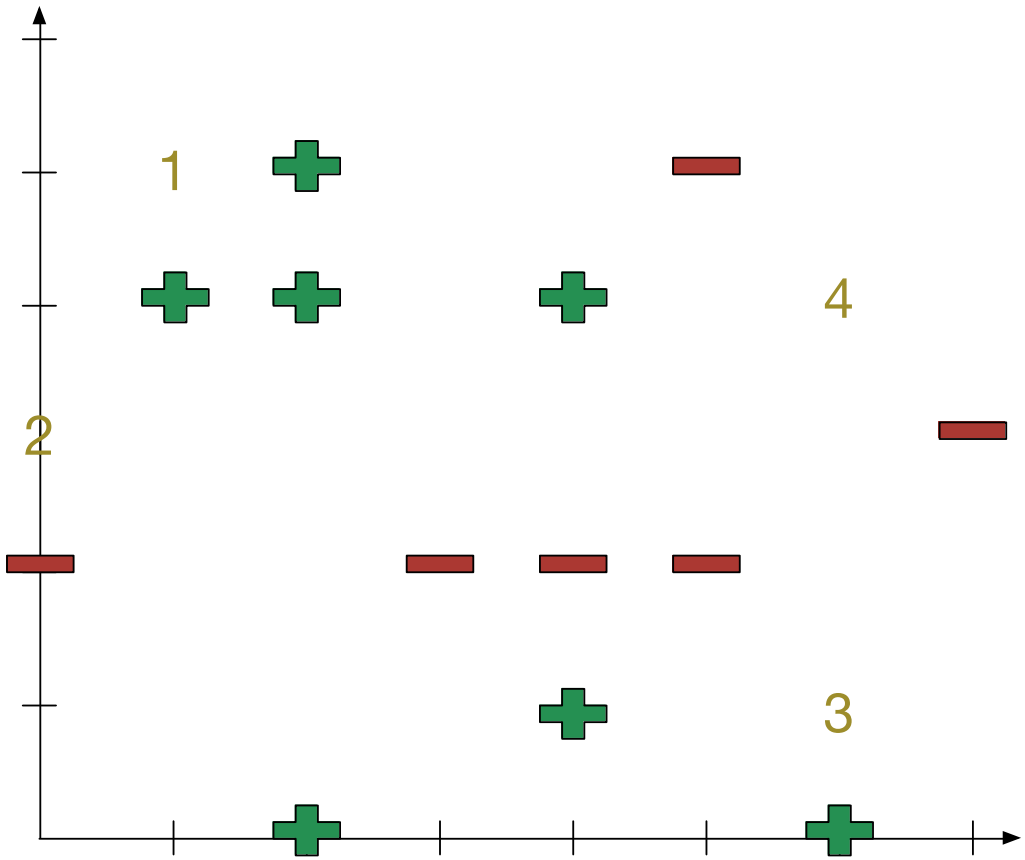


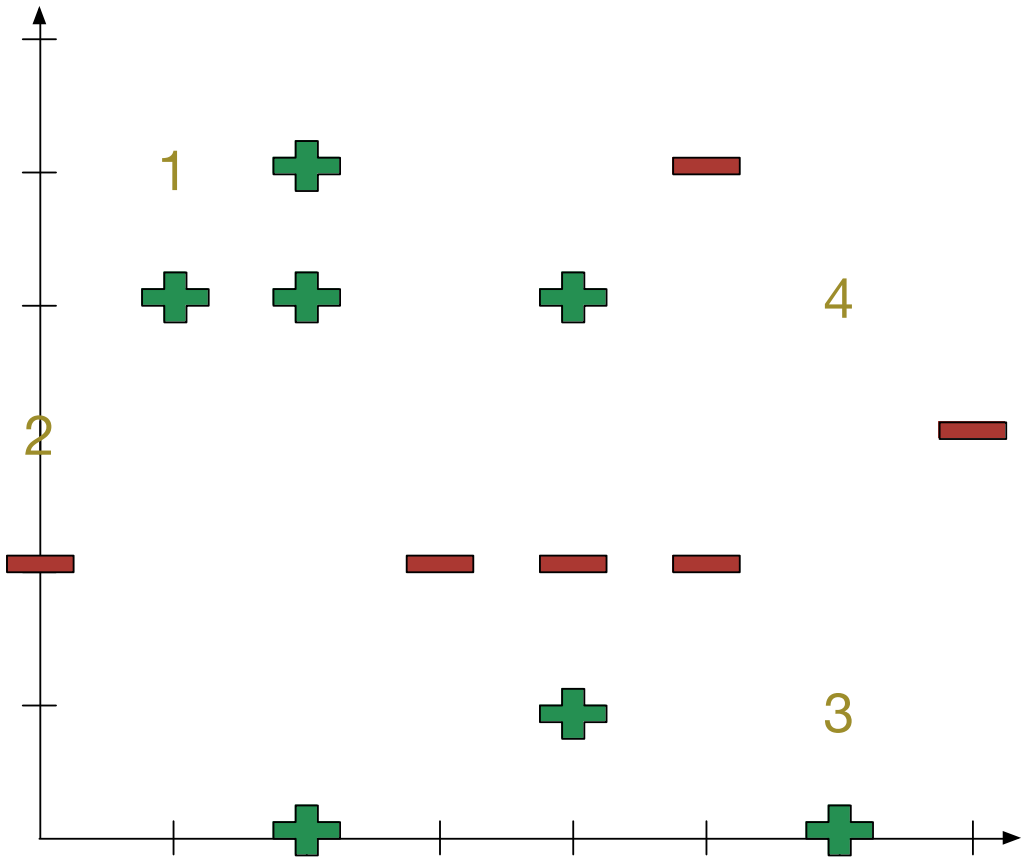
KNN Classification

$K = 2$

What is the prediction of y_1?

Closest points:

Prediction:



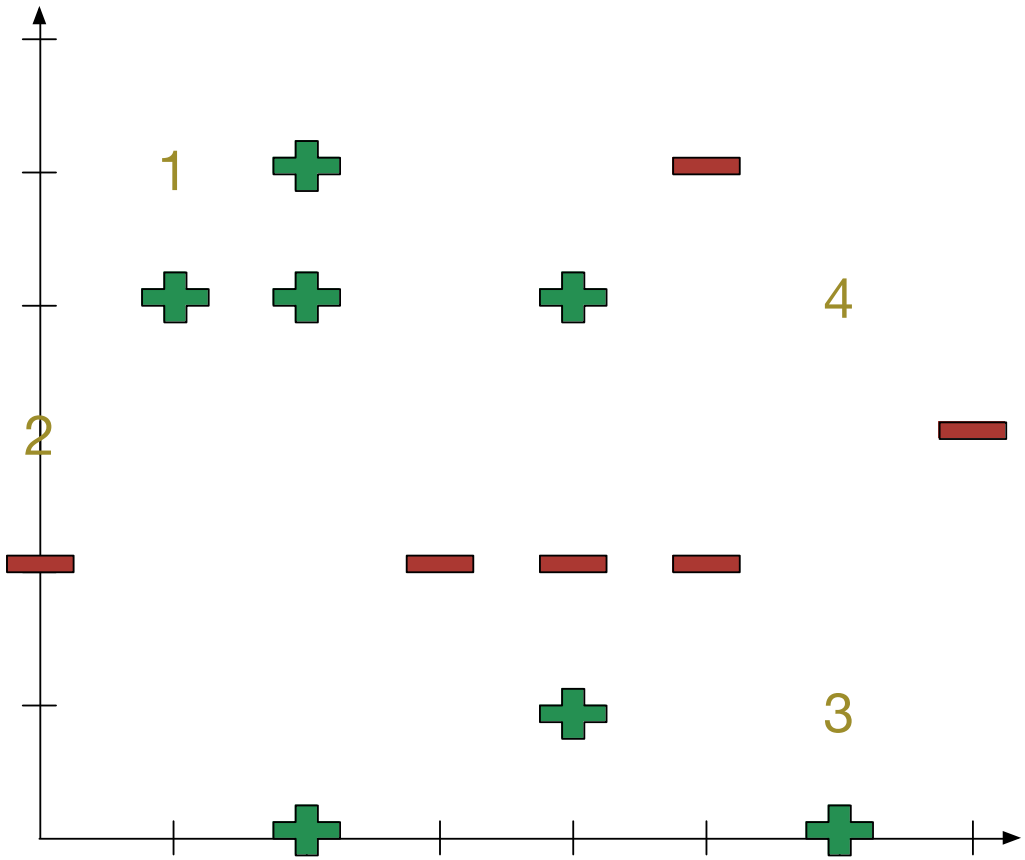
KNN Classification

$K = 2$

What is the prediction of y_2?

Closest points:

Prediction:



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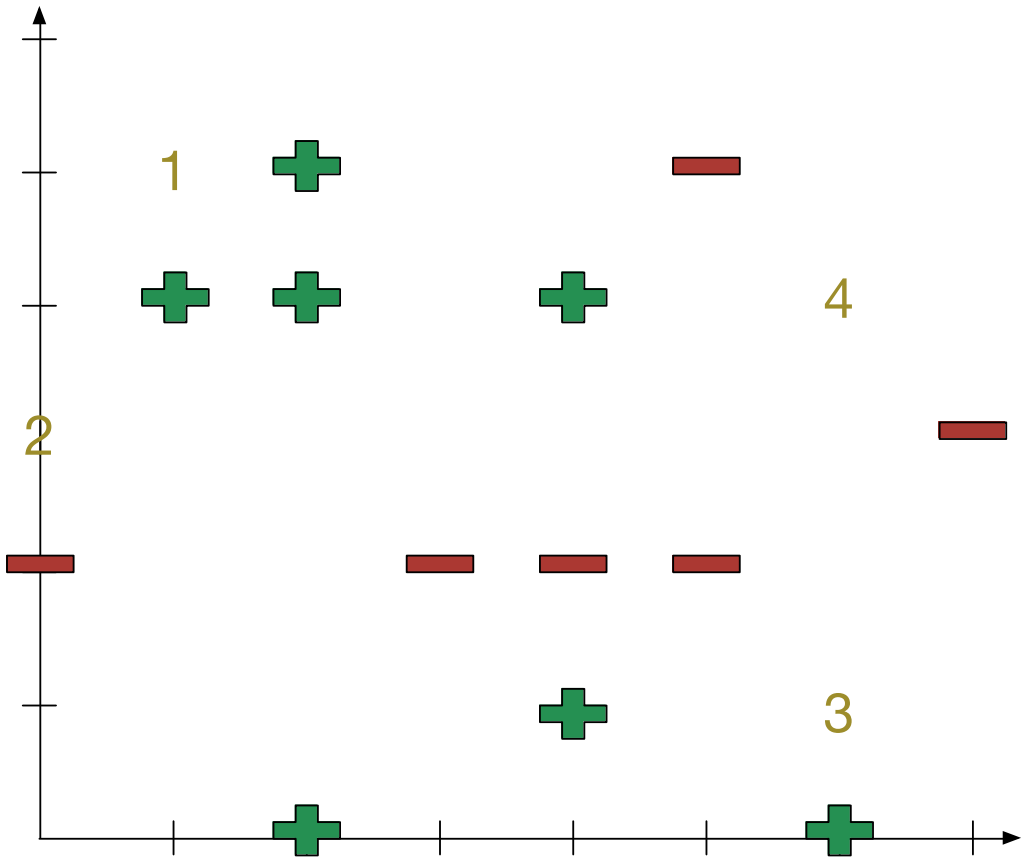

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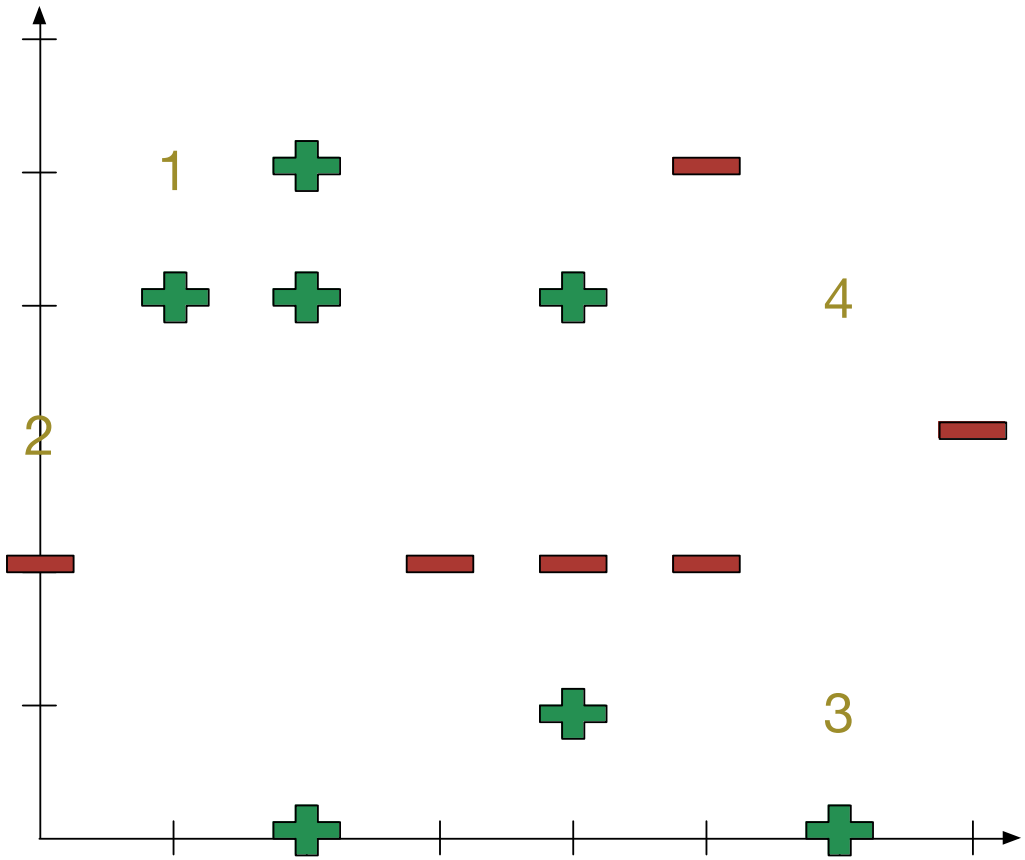


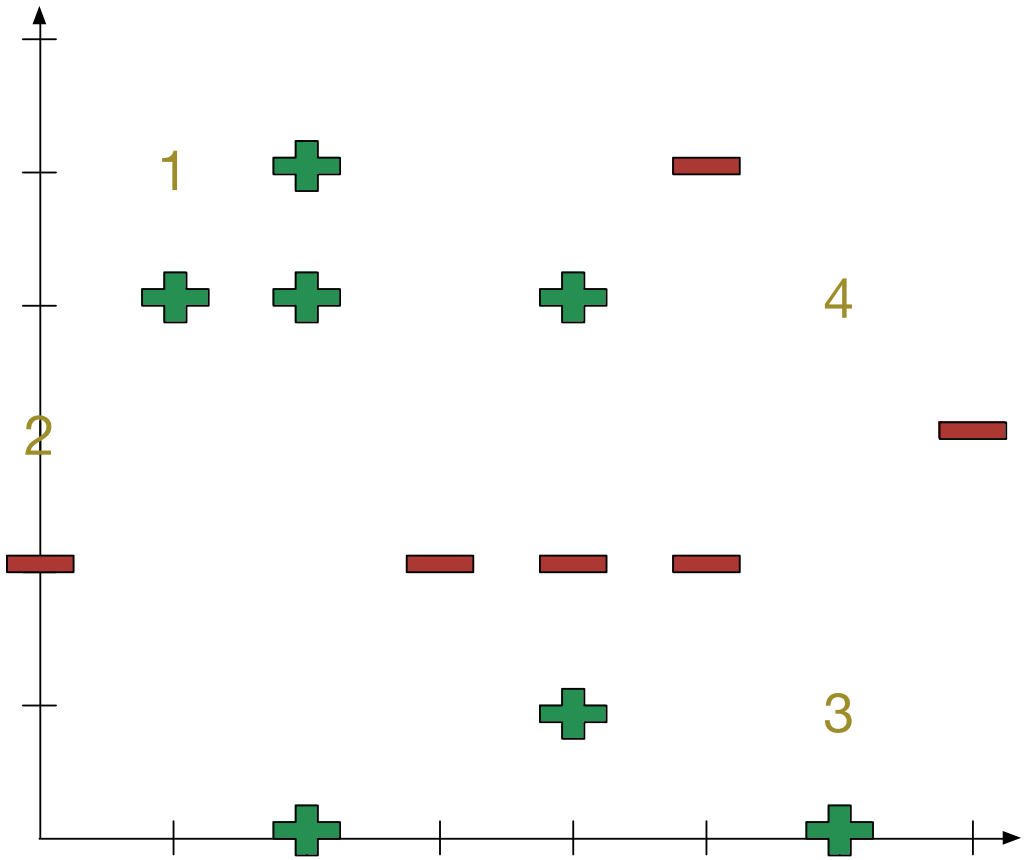
KNN Classification

$K = 3$

What is the prediction of y_1?

Closest points:

Prediction:



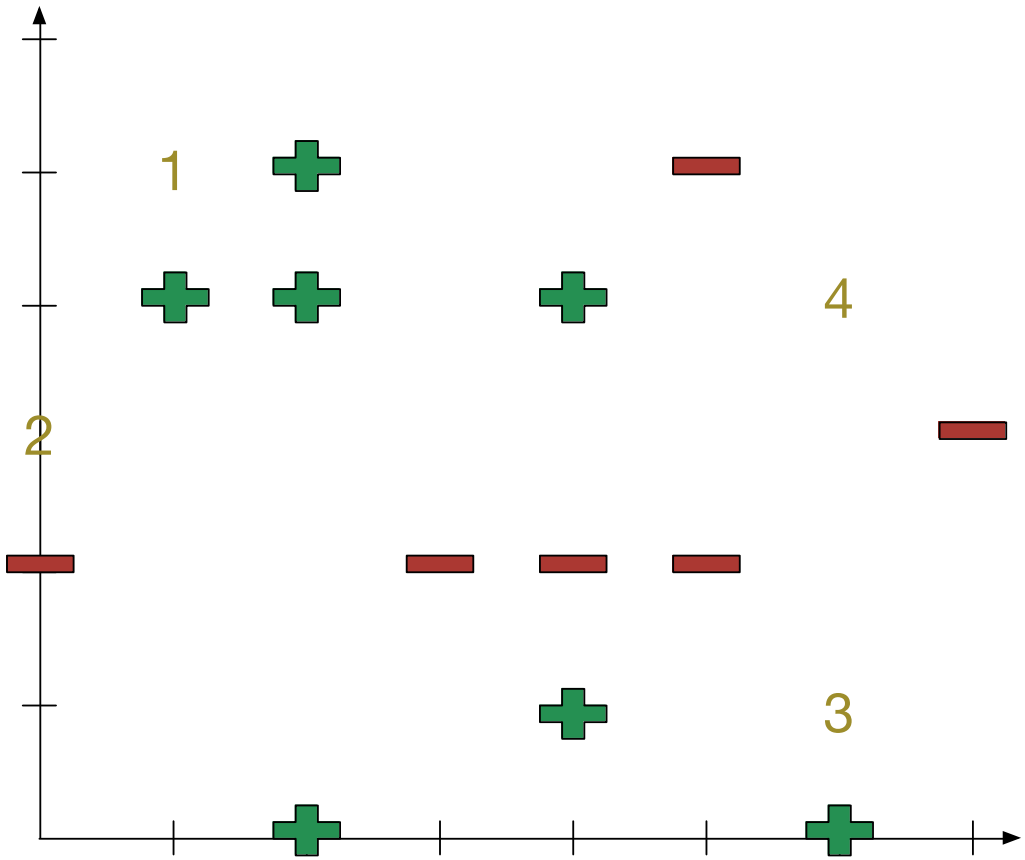
KNN Classification

$K = 3$

What is the prediction of y_2?

Closest points:

Prediction:



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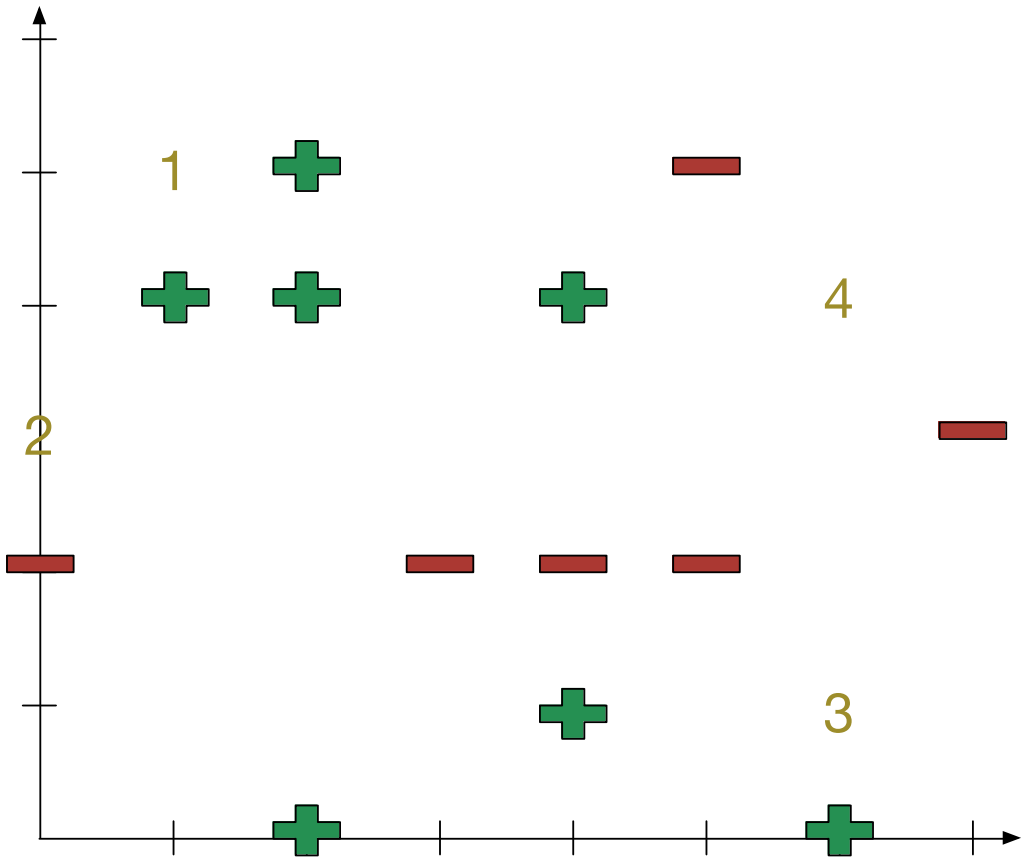

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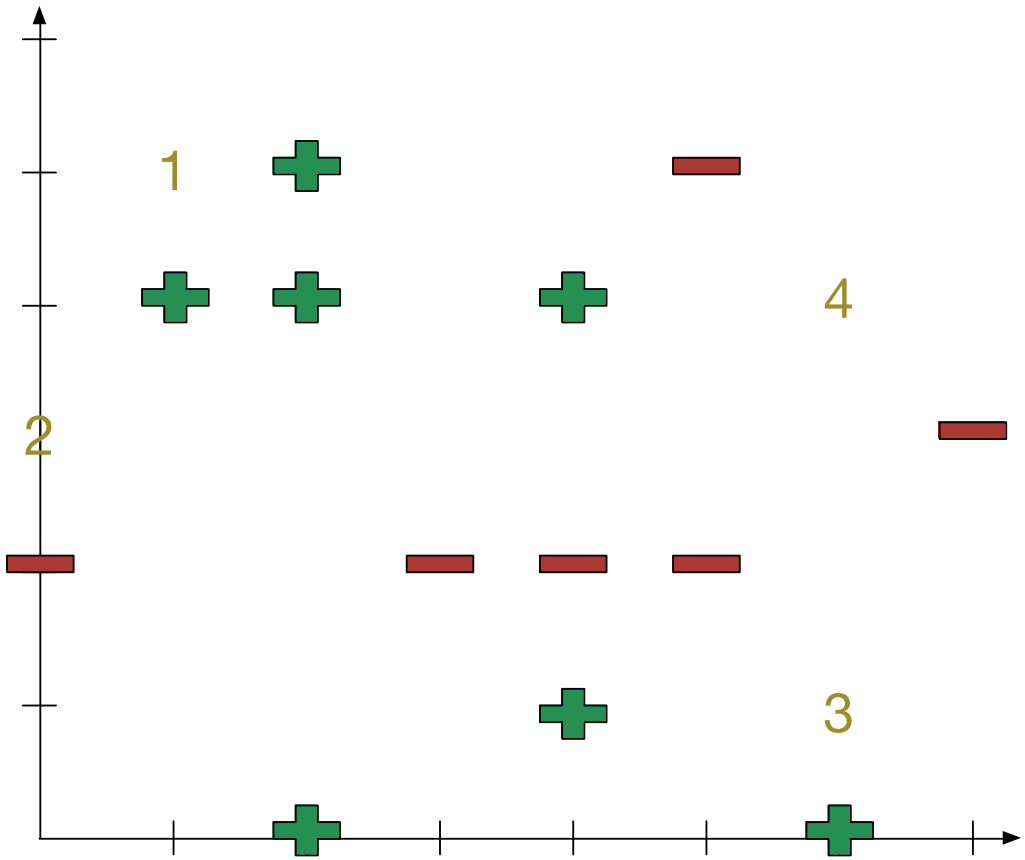

HW1

- Now posted
- Designed to be easy
- Main goal: comfortable with Python / infrastructure