1. **The simple threshold classifier for sentiment analysis described in the video (*check all that apply*):** **1 point**

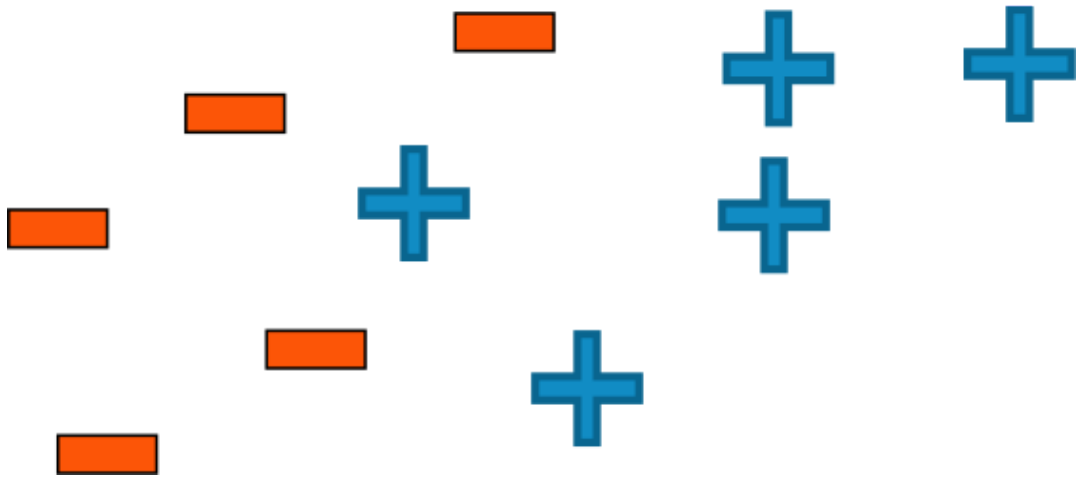
- [x] **Must have pre-defined positive and negative attributes**
- [ ] **Must either count attributes equally or pre-define weights on attributes**
- [ ] **Defines a possibly non-linear decision boundary**

2. **For a linear classifier classifying between "positive" and "negative" sentiment in a review x, Score(x) = 0 implies (*check all that apply*):** **1 point**

- [ ] **The review is very clearly "negative"**
- [x] **We are uncertain whether the review is "positive" or "negative"**
- [ ] **We need to retrain our classifier because an error has occurred**

3. For which of the following datasets would a linear classifier perform perfectly? **1 point**

☐



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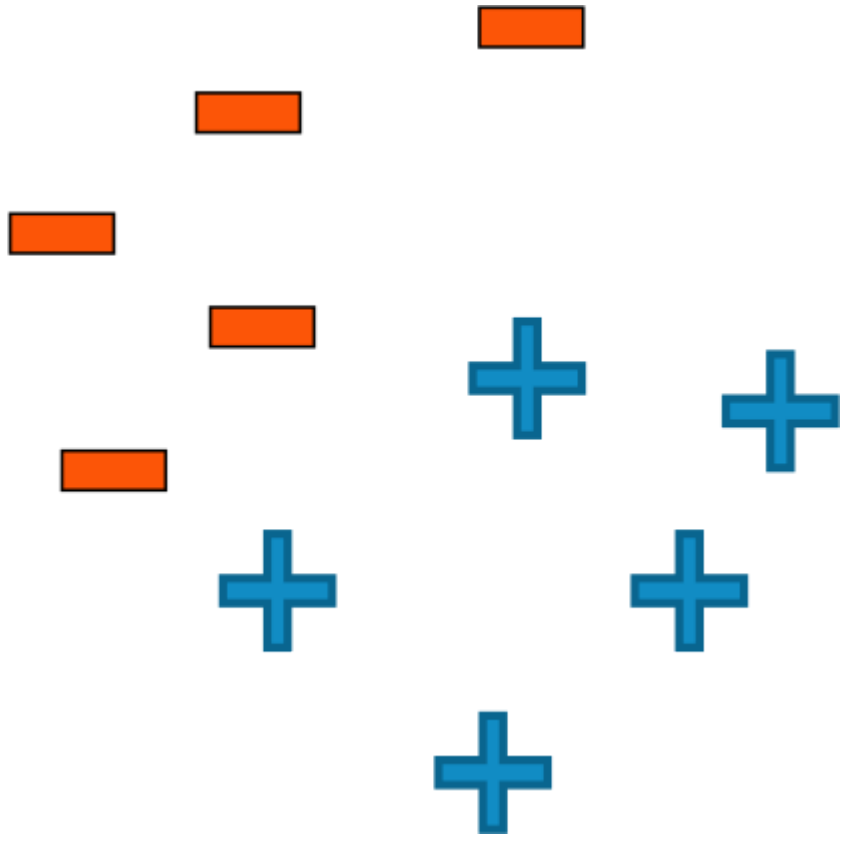

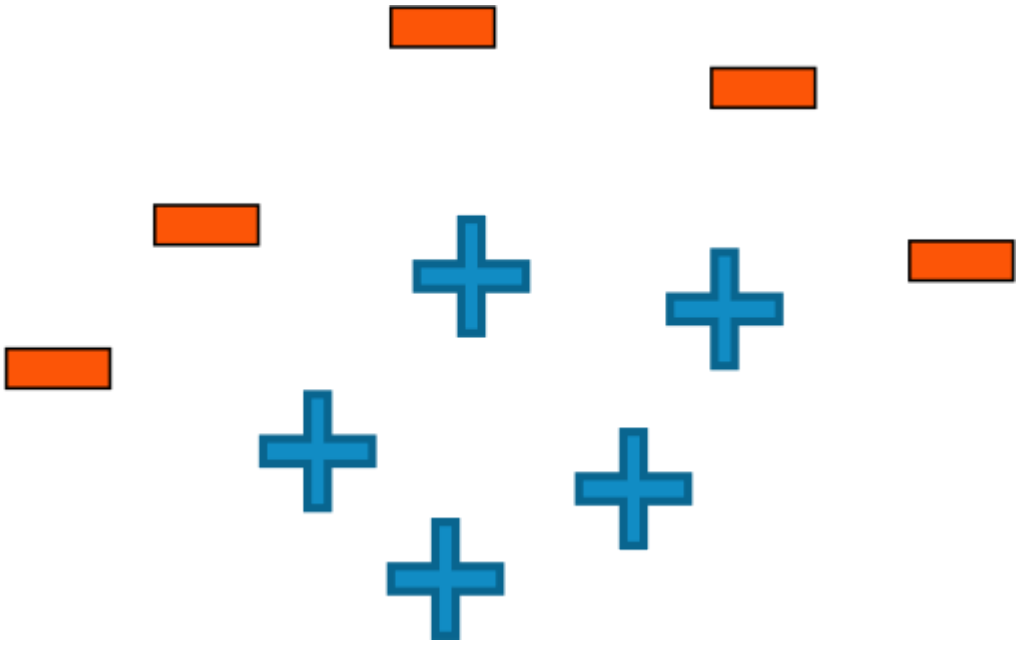

4. ***True or false:*** **High classification accuracy always indicates a good classifier.** **1 point**

- ○ **True**
- ◉ **False**

5. ***True or false:*** **For a classifier classifying between 5 classes, there always exists a classifier with accuracy greater than 0.18.** **1 point**

- ◉ **True**
- ○ **False**

6. ***True or false:*** **A false negative is always worse than a false positive.** **1 point**

- ○ **True**
- ◉ **False**

7. **Which of the following statements are true? (*Check all that apply*)** **1 point**

- ☑ **Test error tends to decrease with more training data until a point, and then does not change (i.e., curve flattens out)**
- ☐ **Test error always goes to 0 with an unboundedly large training dataset**
- ☐ **Test error is never a function of the amount of training data**

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