



[Unit 2 Nonlinear Classification,](#)  
[Linear regression, Collaborative](#)  
[Course](#) > [Filtering \(2 weeks\)](#)  
1. Objectives

> [Lecture 6. Nonlinear Classification](#) >

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## 1. Objectives

### **Nonlinear Classification**

At the end of this lecture, you will be able to

- derive non-linear classifiers from feature maps
- move from coordinate parameterization to weighting examples
- compute kernel functions induced from feature maps
- use kernel perceptron, kernel linear regression
- understand the properties of kernel functions

## Discussion

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2

Hi Staff, i am still unable to grasp two concepts One why do phi of  $x$ ,  $[X_1, X_2]$  has to be  $[X_1, X_2]$ ...

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