Classification Types

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Classification Types

Binary

- X: images of houses and / or trees
- y:
  - one label per image
  - two mutually exclusive classes
- Example Label encoding: 0 = tree, 1 = house

y = 0

y = 1

y = 0/1 ?

Classification Types

Multi-Class

- X: images of houses and / or trees
- y:
  - one label per image
  - more than two mutually exclusive

Example:

- Label encoding: 0 = tree, 1 = house, 2 = road

y = 0

y = 1

y = 0

y = 2

Classification Types

Multi-Label

- X: images of houses and / or trees
- y:
  - each image can have more than one class
  - more than two mutually exclusive classes

Example:

- Label encoding: 0 = tree, 1 = house, 2 = road

y = [0]

y = [1]

y = [0, 1]

y = [0,2]