Last Class: Regular Indexing

$$B = A(:,2)$$

Logical Indexing

It's also possible to index into an array using a logical array of the same size.

Logical Indexing Cant.

Three ways to create a logical array.

O Convert an array of ones and zeroes using the function logical ().

(use a logical comparison (==, >, <, etc...).

mag = [7.2 3.1 2.8 6.2]

mask = mag > 5; ->[100]
mag (mask); -> [7.2 6.2]

Note, you can do all this in one line:

mag (mag) 5); -> [7.2 6.2]

(11) Use a function that produces a logical array. Ex: isnam(); isfinite(); isequal(); etc...

Data = [3,5, NaN, 9,8, Inf];

"Not a Number"

ie. a missing value "infinite"

isfinite (Data) -> [1 1 0 1 1 0]

* Logical indexing is very useful for choosing specific subsets of a large array.