

Lab 1 - Matlab

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Semester Plan

Complement assignments in lecture

For now,

- ▶ Matlab intro
- ▶ HDRI
- ▶ Photomatix

Matlab

- ▶ interpretive programming language
- ▶ focused on matrices and operations
- ▶ good for linear algebra
- ▶ no type definition, storage allocation, etc
- ▶ images as matrices

Commands

- ▶ $x = [3\ 4\ 2\ 1]$
- ▶ $A = [1\ 2\ 3; 4\ 5\ 6; 7\ 8\ 9]$
- ▶ $AT = A'$ transposes A

Commands

- ▶ $t = 1 : 10$
- ▶ $t = 10 : -0.5 : 8$
- ▶ $B = [1 : 3; 4 : 6]$
- ▶ $B(:, 2 : end)$

M files

- ▶ contains scripts or functions
- ▶ can be written in matlab's editor or your text editor of choice
- ▶ make sure the M file is saved in matlab's working directory

Getting help

- ▶ “help <command>”
- ▶ Help menu
- ▶ <http://mathworks.com>
- ▶ google