

Introducing ... Matlab!

Raymond J. Spiteri

Faculty of Computer Science
Department of Mathematics and Statistics
Dalhousie University

<http://www.cs.dal.ca/spiteri>

Outline

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- What is Matlab?

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- What is Matlab?
- Why Matlab?

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- Why Matlab?
- Getting Started

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- Basic Matlab Programming

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- developed by Cleve Moler in 1970s as a teaching tool
- now ubiquitous in education and industry

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- has many specialized functions (Toolboxes)

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 - ... you use a free clone (e.g., octave, scilab, etc.)

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- ... you code things in an “optimized” fashion

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- ease of use
- rapid prototyping/debugging of sophisticated code
- can be used interactively (“scratchpad”) or from scripts

Why Matlab?

- Consider the “old” way to solve a linear system $Ax = b$:

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CALL DECOMP (NX, NX, A, IP, WORK, IPSD)  
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- *Sensible numerical algorithms!*

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