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Julia

微分方程

非线性拟合

随机变量

线性拟合

随机游走

图像处理

图像变换

气候建模

矩阵运算

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# 18.S191: Introduction to computational thinking for real-world problems

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[Go to course website](#) :balloon:

Welcome to **MIT 18.S191 aka 6.S083 aka 22.S092, Spring 2021** edition! For older semester, see the [Fall 2020 branch](#) or [older content](#).

This is an introductory course on Computational Thinking. We use the [Julia programming language](#) to approach real-world problems in varied areas applying data analysis and computational and mathematical modeling. In this class you will learn computer science, software, algorithms, applications, and mathematics as an integrated whole.

Topics include:

- Image analysis
- Machine Learning?
- Network theory
- Climate modeling

<!--

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## Stay updated on Twitter

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We will be using Twitter to put out class updates and other relevant course content. You can find us [on Twitter @MITCompThinking](#).

## Meet our staff

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**Lecturers:** [Alan Edelman](#), [David P. Sanders](#), [Charles E. Leiserson](#), [Henri F. Drake](#)

**Teaching assistants:** [Bola Malek](#)

**Technical assistants:** [Fons van der Plas](#), [Logan Kilpatrick](#)

**Guest lecturers:** *to be announced*

## Logistics

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Course materials will be published on this website on **Monday 1:00pm**. Each week is a new *chapter*, which includes:

- Asynchronous video lectures (*total 60 minutes*)
- Interactive visualizations
- Exercises

## Live lectures

On **Monday 1:00pm - 2:30pm**, after the material is published, there will also be:

- Q&A on Discord
- Live overview lecture (*30 minutes*)

On **Wednesday 1:00pm 2:30pm** (*MIT students only*), you will meet with fellow students and your TA to:

- Review the lecture
- Work on problem sets in small groups or individually, with the opportunity to ask questions to your TA

Start date: February 16, 2021

## Discussion forum and homework submission

- [Discord](#): discussion (we encourage you to hang out here during class!)
- [Piazza](#): (MIT only) questions, discussion with staff, announcements
- [Canvas](#): (MIT only) homework submissions. If you're a non-MIT student, don't worry, the **homework has built-in answers checks**, or you can find a partner to cross-grade homeworks via Discord.

## Evaluation

The final grade is 80% problem sets, and 20% MITx *quick questions*.

- Problem sets are released on Tuesdays and due before Sunday (11:59pm). They have equal weight; your lowest score will be dropped.
- [MITx](#) exercises (*quick questions*) are due before Wednesday (11:59pm), but are best done on Monday, during or right after the lectures.

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