Advanced Object-Oriented Design Mooc

https://advanced-design-mooc.pharo.org/
http://rmod-pharo-mooc.lille.inria.fr/AdvancedDesignMooc/

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Excellent Mooc
http://mooc.pharo.org

"I have just completed week seven of the Pharo Mooc …. I have already learned so much ! I have spent the last 20 years or so in software development and, following this Mooc, I realized I hadn't really grasped the essence of object oriented design"

GMJuliet on discord June 2019

Excellent Mooc
http://mooc.pharo.org

"J'ai trouvé ça très intéressant, beaucoup plus que prévu ! je regrette de ne pas m'y être mis plus tôt. J'ai enfin l'impression de vraiment faire de la POO ! Ou à l'inverse je me rend que je n'en faisais pas vraiment... - Anonymous, 2019"

Excellent Mooc
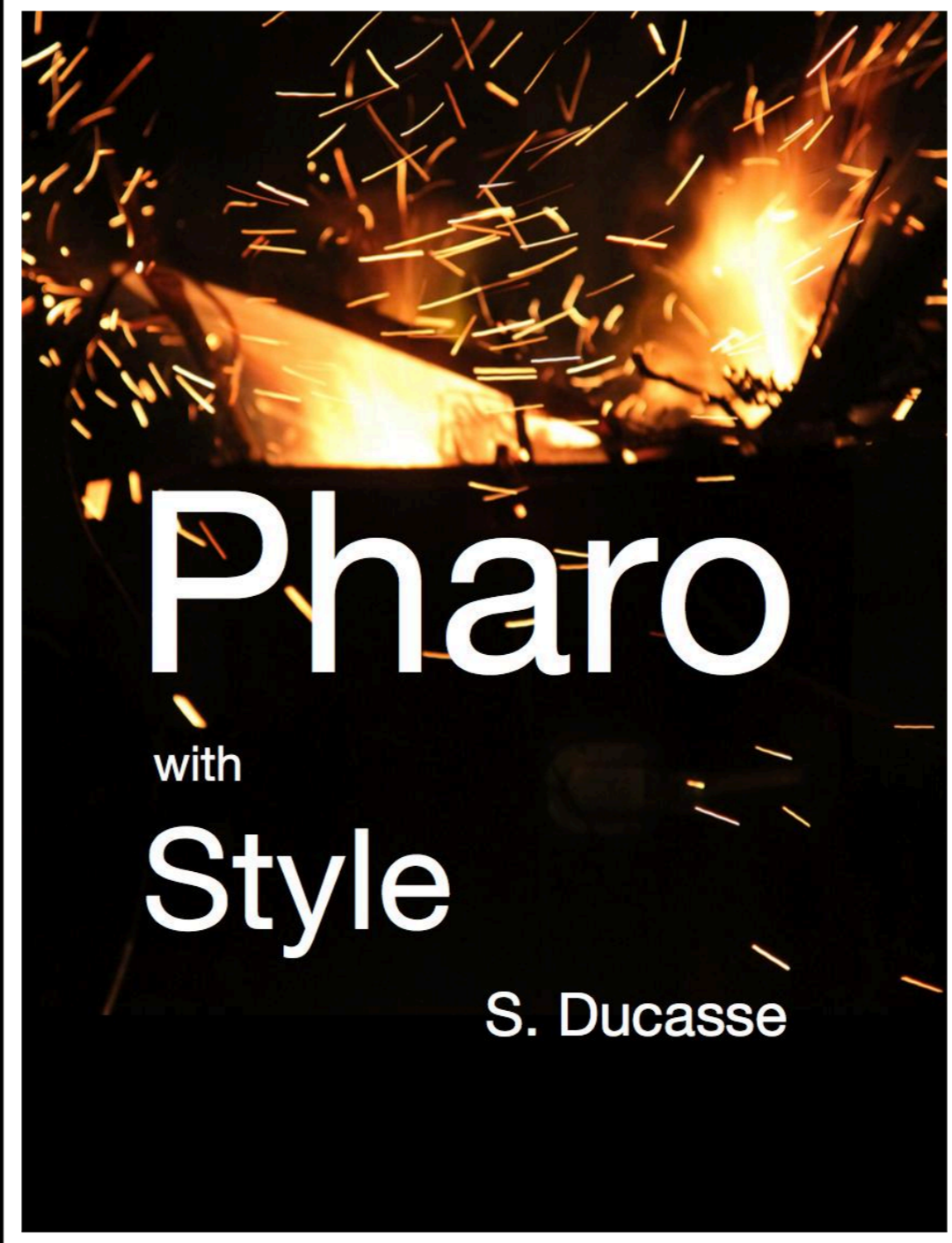# http://mooc.pharo.org

« Really one of the best mooc I have ever attended. And I have attended quite a few (openSAP, openHPI). As an old fashioned ABAP developer I want to be reborn as Pharo developer in my next life :-) » - Anonymous

Excellent Mooc
http://mooc.pharo.org

Hi! I finished the MOOC some weeks ago and I would like to congratulate everybody involved! After a decade+ of Python programming I think I found my new favorite language :). I'm making a small Teapot server for Slack command bots, I'm goona push it to Github (yay Iceberg), if anyone is interested. - EduardoPadoan

Please use it!

Pharo
with
Style

S. Ducasse

Forthcoming advanced design mooc

https://advanced-design-mooc.pharo.org/

more than 60 years of experience
designing complex systems
teaching OO Design

The Advanced Object-Oriented De MOOC with Pharo

Vidéo

Testimonies

What the participants are saying :)

Thank you for these messages, they boost us!

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No comment yet.
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About this MOOC

This MOOC is about **Advanced Object-Oriented Design**. Either you are a beginner or an expert in object-oriented programming, this MOOC will immerge you in advanced o will not develop the same way after following this unique lecture. It is built on more than 60 years of expert teaching object-oriented design. This MOOC invites you to a journe covering the following topics:
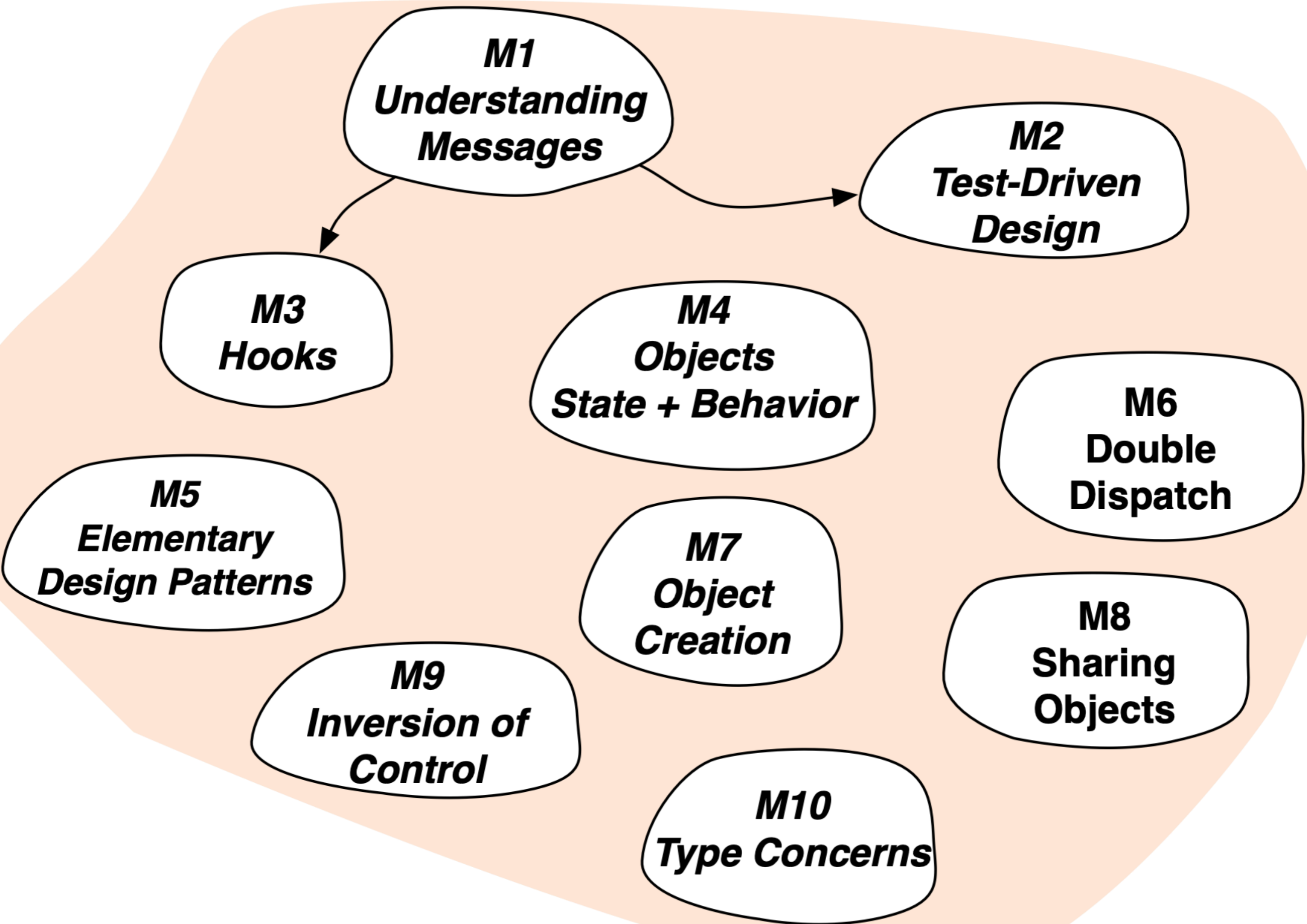
- Understanding messages
- Test-driven Design
- Hooks: support for evolution
- Objects: state and behavior
- Elementary design patterns
- Double dispatch
- Object Creation
- Sharing Objects
- Inversion of control
- About types

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The learners will be proposed several design exercises ranging from little interpreters to games and quizes.

Why the Pharo programming language?

This MOOC uses Pharo as a pedagogical vehicle but all the concepts you will learn are **language independant** and can be applied to any object-oriented language. Neverth

M1
Understanding Messages

M2
Test-Driven Design

M3
Hooks

M4
Objects State + Behavior

M6
Double Dispatch

M5
Elementary Design Patterns

M7
Object Creation

M8
Sharing Objects

M9
Inversion of Control

M10
Type Concerns

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Around 61 lectures
Slides + Videos
Booklet of exercises

Objectives

- Revisit basic elements such as encapsulation, delegation
- Think about essential aspects of object-oriented design
- Learn key Design Patterns
- Analyze real case studies
- Things about Pharo code idioms

Stay tuned

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