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# Velocity Introductory Course I Formats | SUNY Upstate Medical University

3 minutes

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## Introduction

The introductory course teaches you the basics of Cascade Velocity. We will also look at how to use reusable code.

- [Lesson 1: Basic Setup](#)

We will set up a test environment, learn how to acquire XML data from blocks, and write our first Velocity format.

- [Lesson 2: Java and Java Objects](#)

We will look at the Velocity context, understand why we need to deal with Java objects and how to use them, and learn to read various Java API documentation.

- [Lesson 3: Variables](#)

We will look at the nature of Velocity variables, and learn how to create and use them.

- [Lesson 4: Conditionals and Loops](#)

We will look at the `#if` and `#foreach` directives and the `$foreach` variable. We will also look at lists and maps.

- [Lesson 5: Macros](#)

We will look at how to create and use macros. We will also learn how to use library macros.

- [Lesson 6: Navigating an XML Tree](#)

We will look at how to navigate an XML tree, select nodes in a tree, and retrieve data stored in the tree.

- [Lesson 7: Tools](#)

We will look at how to use tool of various types in the Velocity context.

- [Lesson 8: LocatorTool](#)

We will look at how to use the LocatorTool.

- [Lesson 9: Cascade API Objects](#)

We will look at how to work with Cascade API objects.

- [Lesson 10: Structured Data Nodes](#)

We will look at how to deal with structured data nodes in data definition blocks and pages.

- [Lesson 11: #import, #break, #stop, and Debugging](#)

We will look at these three directives and how to debug our code.

## Examples

- [tutorials/introductory](#)



## References

- Apache Velocity [User Guide](#)



- Apache Velocity [Developer Guide](#)



- Apache Velocity [VTL Reference](#)



- [Velocity Tools API](#)



- Cascade Knowledge Base [Formats](#)

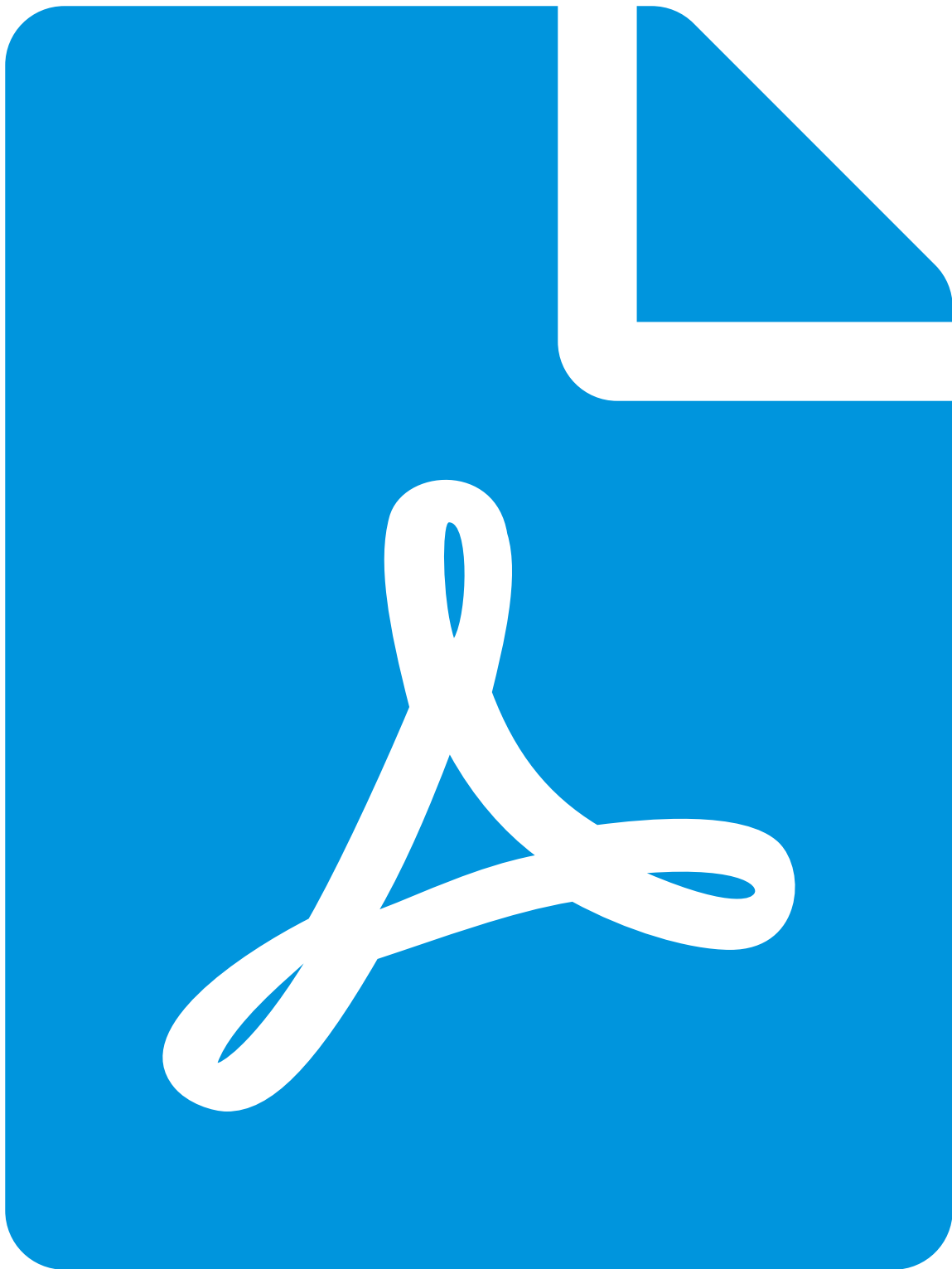


- Cascade Knowledge Base [Code Sections](#)



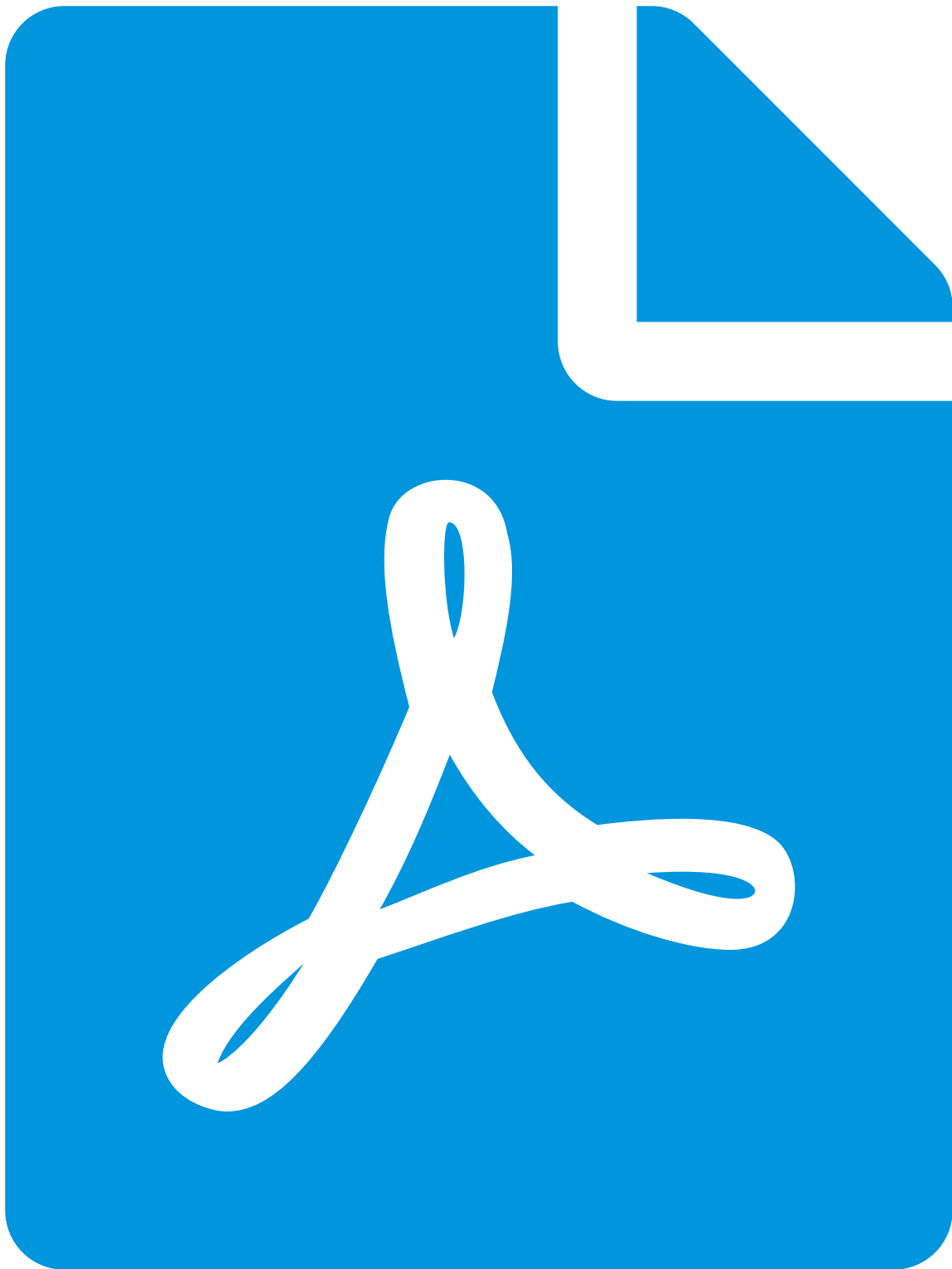


- [Velocity Cheatsheet](#)





- [Advanced Velocity Cheatsheet](#)





- [Hannon Hill Velocity Cookbook](#)



- Alvin Chao's [Learn Velocity](#)



- James "Jamie" Arthur Johnson's [Velocity The Basics: Scripting with a \\$ here and a # to do](#)



- James "Jamie" Arthur Johnson's [Velocity: Beyond the Basics: Beyond a \\$ here and a # to do \(additions, subtractions and things left unsaid\)](#)





- [w3schools XML Tutorial](#)



- [velocity\\_context.vm](#)

