



Tutorial Form

Title: Programming with the Charles Container Library
Presenter: Matthew Heaney
Contact name: Matthew Heaney
Contact address: 2416 21st St, Apt 4, Troy, NY, 12180, USA
Contact phone: (518) 274-0674
Contact fax:
Contact email: matthewjheaney@earthlink.net
Requested level: intermediate

Background:

Abstract: Charles is a container library for Ada95 that elegantly solves many typical programming problems. The library comprises sequence containers (vectors, deques, and linked-lists) for inserting elements at specified positions, and associative containers (sets, multisets, maps, and multimaps) which position elements in order by key. Charles is general, flexible, and efficient, and its design has been guided by the philosophy that a library should stay out of the programmer's way.

Presenter summary: Matthew is the author of the Charles library. His interests include object-oriented programming, design patterns, and library design. He has recently submitted a proposal based on Charles to the ARG in response to AI-302 calling for a standard container library API.

