
Subject: Ruby range operators? Re: IDL 8.0 compile_opt changes

Posted by [Paul Van Delst\[1\]](#) on Fri, 08 Jan 2010 21:16:09 GMT

[View Forum Message](#) <> [Reply to Message](#)

Maarten wrote:

> On Jan 7, 6:56 pm, mgalloy <mgal...@gmail.com> wrote:

>> I think we are agreeing here, but just to be sure: Python and IDL would

>> be specifying the endpoints of the range in the same way, it's just that

>> Python always includes the start index and excludes the end index (even

>> if not using negative indices):

>>

>>>> > a = [1, 2, 3, 4]

>>>> > a[1:3]

>> [2, 3]

>

> Yes. Although this is a fundamental difference that is the result of a

> choice both language developers made. Thinking about it a bit longer,

> I don't think the two can be made to act the same: IDL always includes

> the end index of the range, while Python always excludes it. Some

> emphasis on this in the documentation may be needed, as Python

> probably is the most widespread programming language that offers the

> facility of negative indices.

Well, since they're mucking about with operators in general, maybe ITTVIS could go the ruby route and introduce the ".." and "..." range operators. The former is an inclusive range (same functionality as ":") and the latter is a range that excludes the higher value. So,

\$ irb

irb(main)> a = [1,2,3,4,5,6]

=> [1, 2, 3, 4, 5, 6]

irb(main)> a[1..3]

=> [2, 3, 4]

irb(main)> a[1...3]

=> [2, 3]

irb(main)> a[1..-1]

=> [2, 3, 4, 5, 6]

irb(main)> a[1...-1]

=> [2, 3, 4, 5]

BTW, if IDL 8.0 will allow operator overloading, will it also allow for operator definition? The overloading should allow for ".." having the same result as ":", but will we be able to define functions/procedures that can be overloaded with "..." ?

cheers,

paulv
