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Subject: Re: LIST extensions

Posted by [penteado](#) on Sun, 02 Jan 2011 06:37:49 GMT

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On Dec 22 2010, 9:47 pm, Paulo Penteado <pp.pente...@gmail.com> wrote:

- > Other changes I am considering to put in my derived classes:
- >
- > 1) Make lists do nothing (as hashes already do) if !null is used as
- > index on `_overloadBracketsLeftSide`.
- >
- > 2) Make lists and hashes return !null when !null is used as an index
- > (now they throw an error).
- >
- > 3) Make lists and hashes accept !null on the `_overloadPlus` method and
- > do nothing, instead of throwing an error.
- >
- > (3) is to work in conjunction with (2), so that lists/hashes can be
- > added to indexed lists/hashes, without having to verify if the index
- > is not !null.
- >
- > Any thoughts?

I have really been finding inconvenient the lack of these, and noticed another shortcoming: `_overloadPlus` should add to a list something that is not a list. So that

```
l1=list()
l2=list(1,2,3)
w=where(l2.toArray() eq 2)
l1+=l2[w]
```

Does not throw an error. As it is now, it takes a lot of work to select elements from a list with `where()`: not only it is necessary to test for no results (because !null is not accepted as index for lists), but it is also necessary to test for a single match, as a list indexed by a scalar (or 1-element array) returns the list element, which cannot be concatenated to a list (unless the element happens to be a list, which would not throw an error, but would concatenate in the wrong way).

An alternative is not change `_overloadPlus`, but change `_overloadBracketsRightSide` to return a 1-element list when given a 1-element array as index. It should still return the element when indexed by a scalar.

And doing these things also makes me think that, for syntatic sugar, there should be a `list::where()` method that would simply call `where()` on the list's `toArray()` result. Or `where()` should automatically call

toarray() if given a list.

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