Proposals for the Reborn Pharo Developer

Simon Denier, Damien Pollet, Stéphane Ducasse
My name is Simon Denier
and I have nothing to show
What do I have?
Some backstory
I’m a newcomer to Smalltalk
less than a year
Did my time in Java
5 years with eclipse...
So it’s quite a shock
And sometimes I wonder
“what the f...?”
Good stuff
doesNotUnderstand: aMessage

"Handle the fact that there was an attempt to send the given message to the receiver but the receiver does not understand this message (typically sent to the machine when a message is sent to the receiver and no method is defined for that selector)."

"Testing: (3 activeProcess)"
"fixed suggested by Eliot miranda to make sure

[Object new blah + 1]
on: MessageNotUnderstood
do: [i: e | e resume: 1] does not loop indefinitely"

let exception resumeValue |
(exception := MessageNotUnderstood new)
message: aMessage;
receiver: self.
resumeValue is exception signal.
"exception reachedDefaultHandler
ifTrue: [aMessage sentTo: self]
ifFalse: [resumeValue]"
Not so good stuff
potentialReferencedClassesOutOfMyPackage

"returns a set of all the potential referenced classes which are not packaged in the selector's package"

| myPackage |
myPackage := self packagedIn.

^myPackage notNil
   ifTrue:
       [ self potentialReferencedClasses select: [:c | c packagedIn ~~ myPackage]]
   ifFalse: [ self potentialReferencedClasses]
So I have some ideas
and I want yours
Focus
When I code
I do one thing at a time
Coding is task-oriented
I may browse the system
But I always come back to a few classes
Unfortunately
Working set
Set of interesting items
Selected items
Unsaved items
History items
Tools built around the working set
Working set
=
the new workhorse
Ubiquity
Select text then...
do it, print it, inspect it, debug it...
browse class, senders, implementors
It's a marvellous thing
Unfortunately
Not every interaction is so seamless
Menus are less accessible than toolbars
Menus are cumbersome for most-used actions
Menus become cluttered with many items
What is better?
Pie menus
Good for most used items
Good with mouse gestures
Hyperlink
Semi-modal hyperlinks in text pane
control+click browse
definition/implementors
control+alt+click browse references/senders
Ubiquity means seamless interaction everywhere
Navigation
So ubiquity is cool for browsing code
but what about focus?
Did you try browsing senders of #==?
Do you want implementors of `#new` in package?
We need focus for navigation and search
Look for senders of #= in this class
Look for implementors of `#new` in package
Look for class definition of String in the system
Look for methods of Collection in its hierarchy
Do you see the pattern?
Look for *aspect* of *target* in *scope*
Look for senders of \#= in this class
Look for implementors of #new in package
Look for class definition of String in the system
Look for methods of Collection in its hierarchy
(all?) search can be expressed in this wannabe API
Remember
focus+ubiquity+navigation = new Pharo experience!