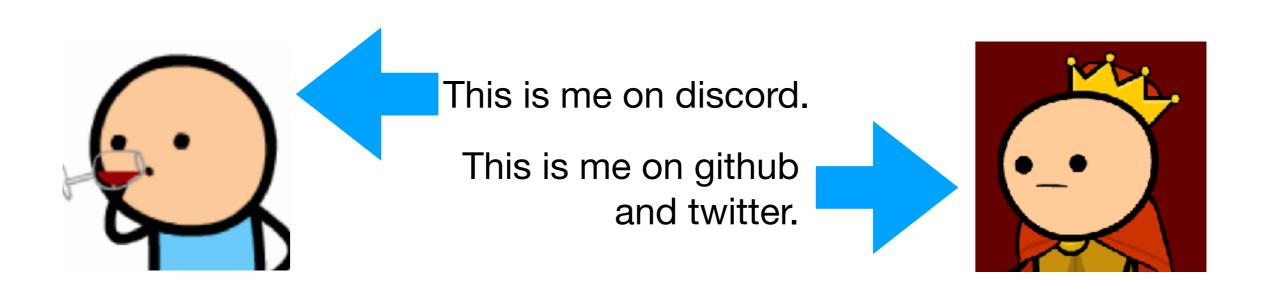
## The future of testing in Pharo

Julien Delplanque julien.delplanque@inria.fr

### About me



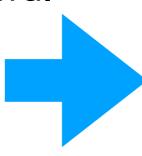
- 2nd year of PhD in RMoD team
- Hacking Pharo around many aspects... just for fun :-)
- Hit by testing topic « by accident »

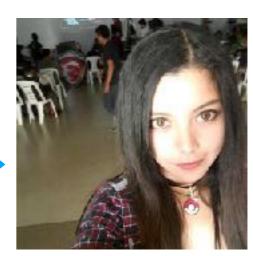
## The one who work on this topic right now





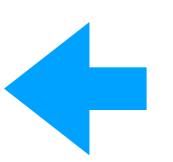
This is Dayne on github.



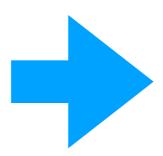


- 2nd year of Master
- Doing an internship in RMoD team for 6 months
- Master thesis on the enhancements of tests in Pharo





Her other mentors on Github



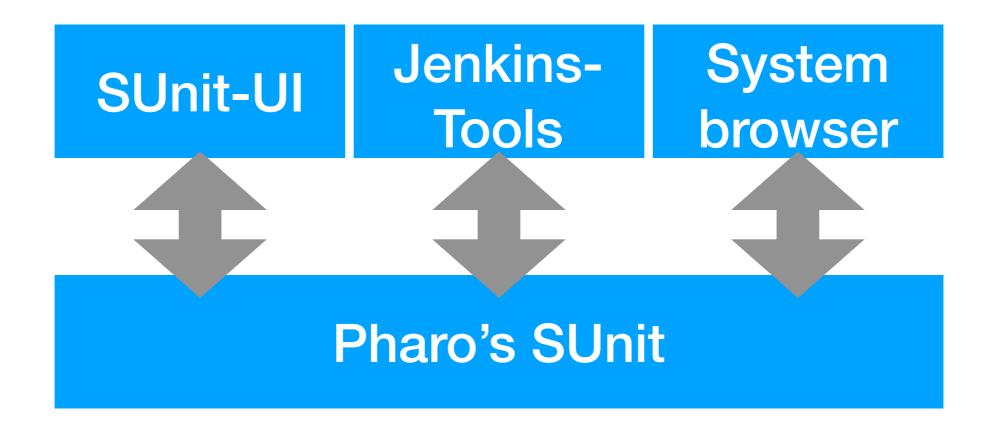


## Questions this talk addresses

- What infrastructure Pharo provides for testing?
- How can we enhance testing experience?

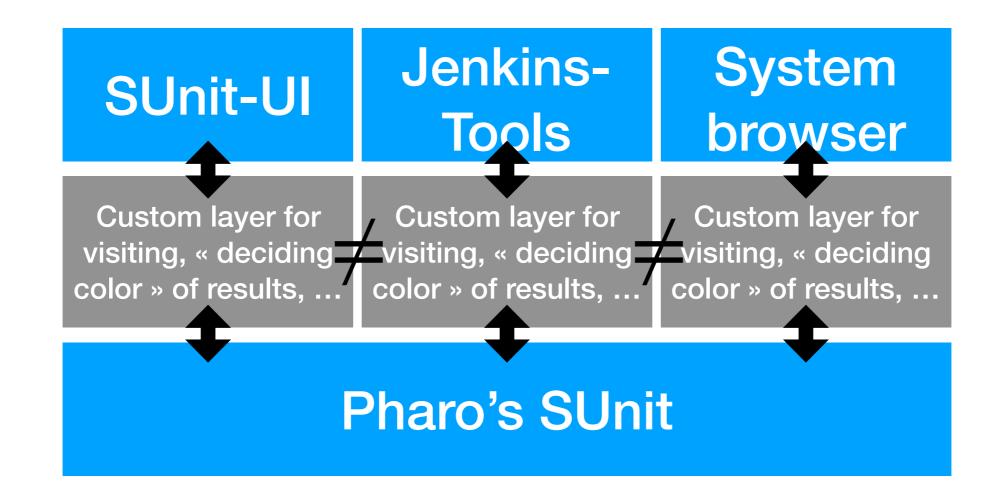
## What infrastructure Pharo provides for testing?

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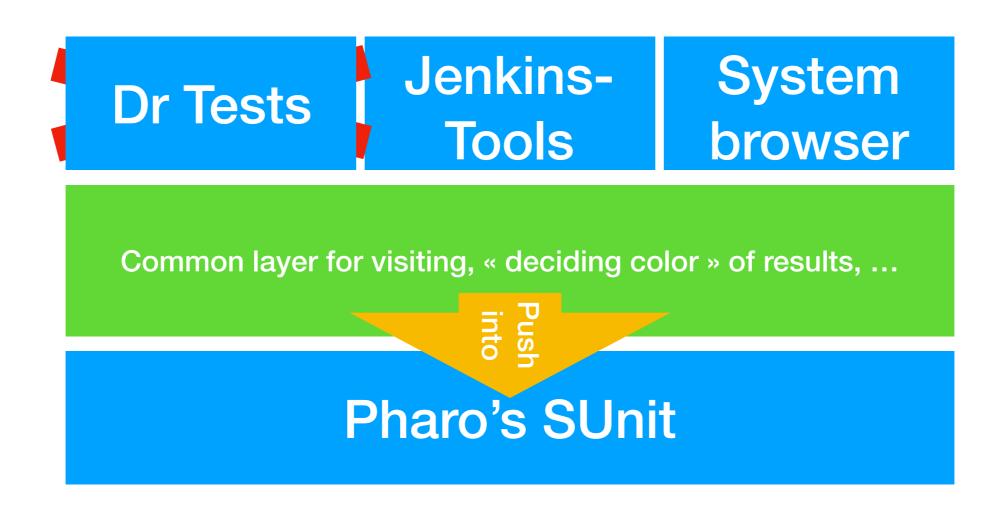


## What infrastructure Pharo provides for testing?

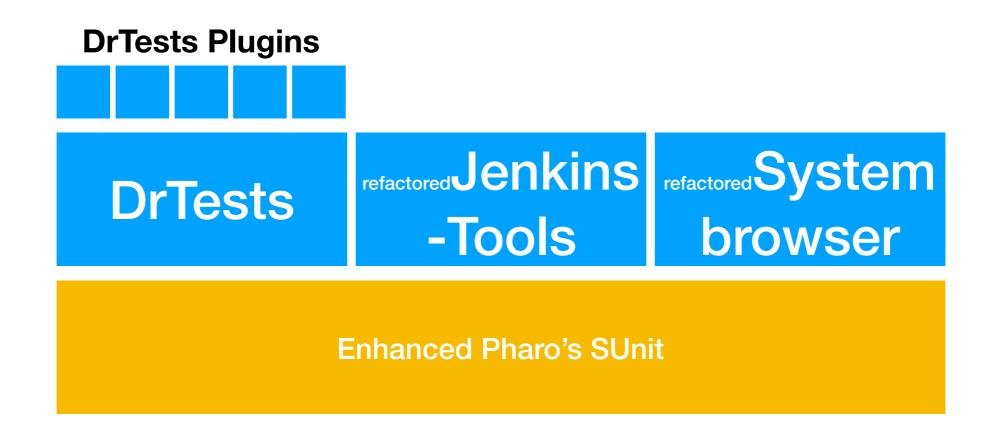
In fact,



#### The infrastructure we want



#### The infrastructure we want

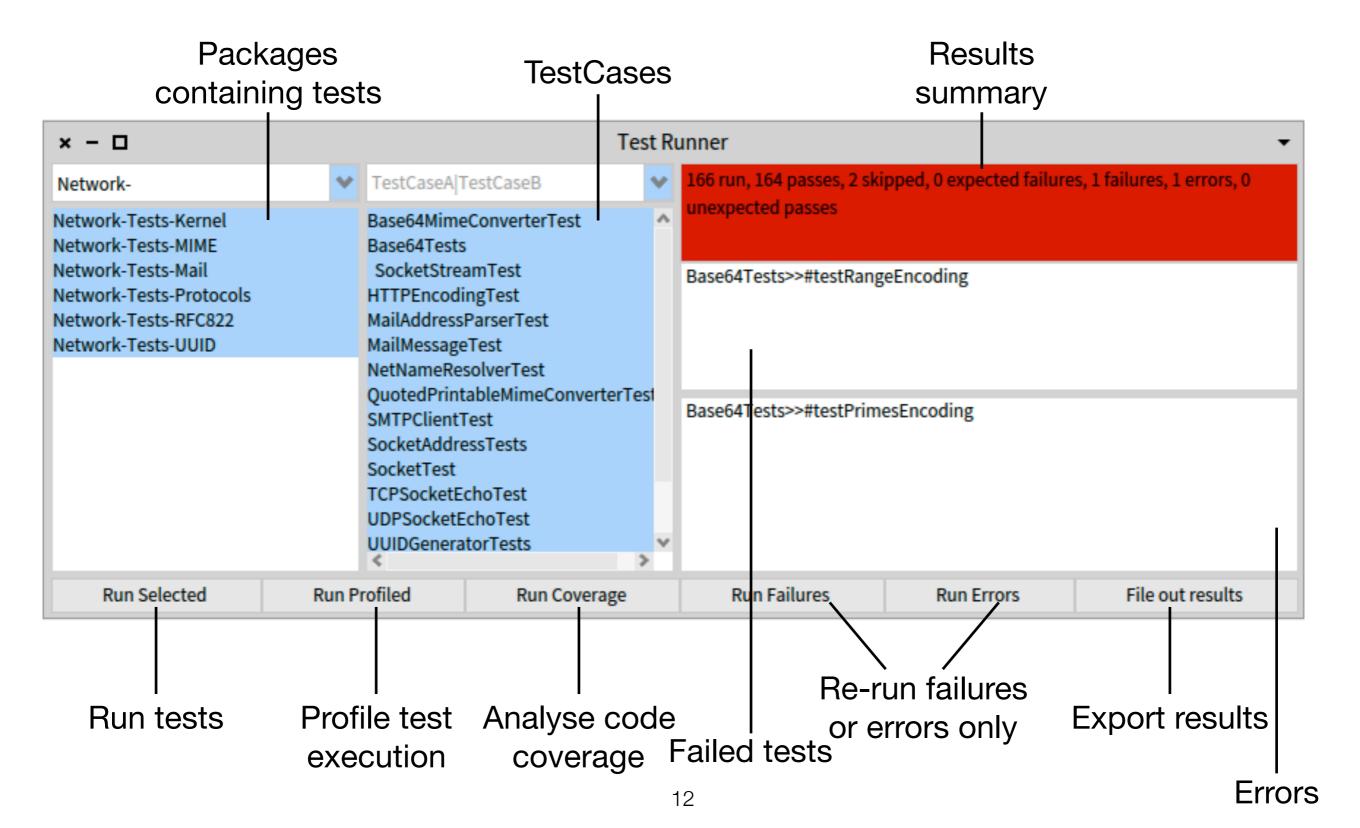


# How can we enhance testing experience?

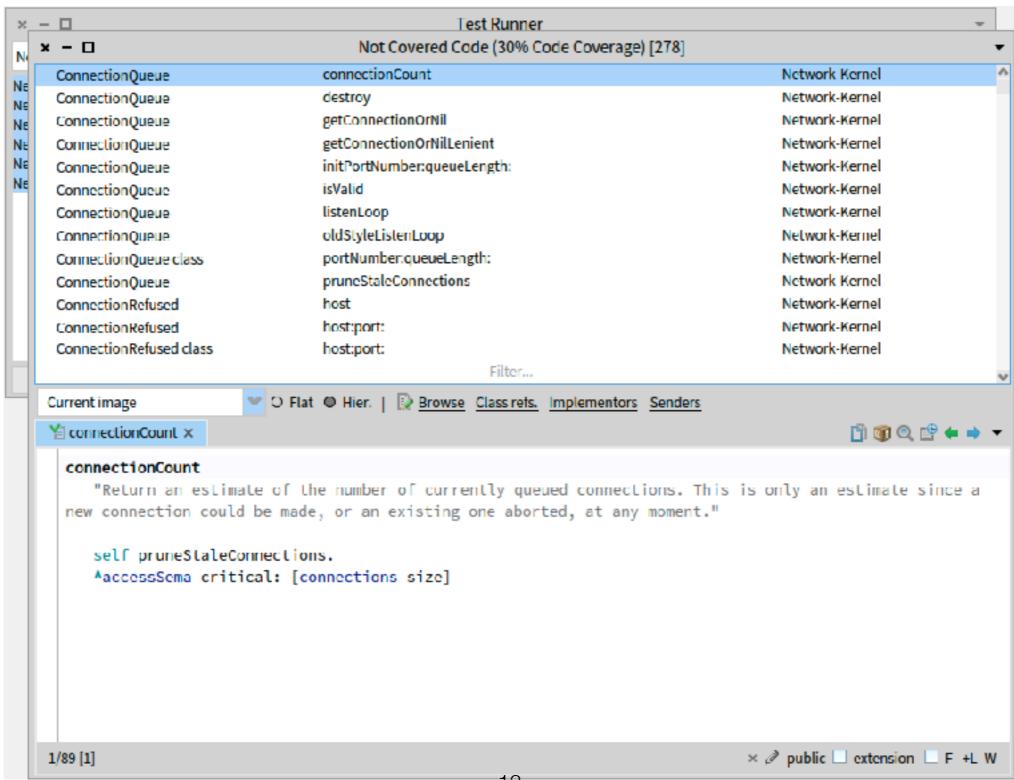
#### What can we do with tests?

	Mana	ged by SU	nit-UI			Run	Rotten	
	Runner	Coverage	Profile	Parametrisable test	testing	examples in comment	Tests Finder	
Input	Test cases	Test cases	Test cases	Test cases + parameters	Test cases + mutation s	Comments	Test cases	•••
Outpu t	Results of tests run	Percentage of methods covered	Time taken for each test run	depending	Mutants to be killed	Comments containing failing examples	Rotten tests	•••

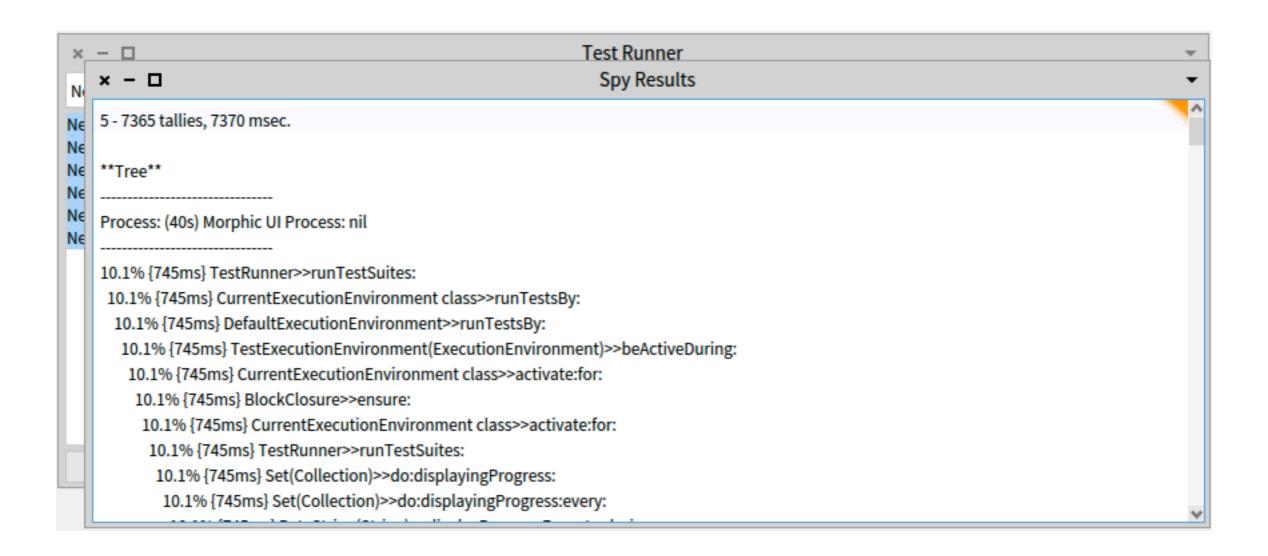
### TestRunner Ul



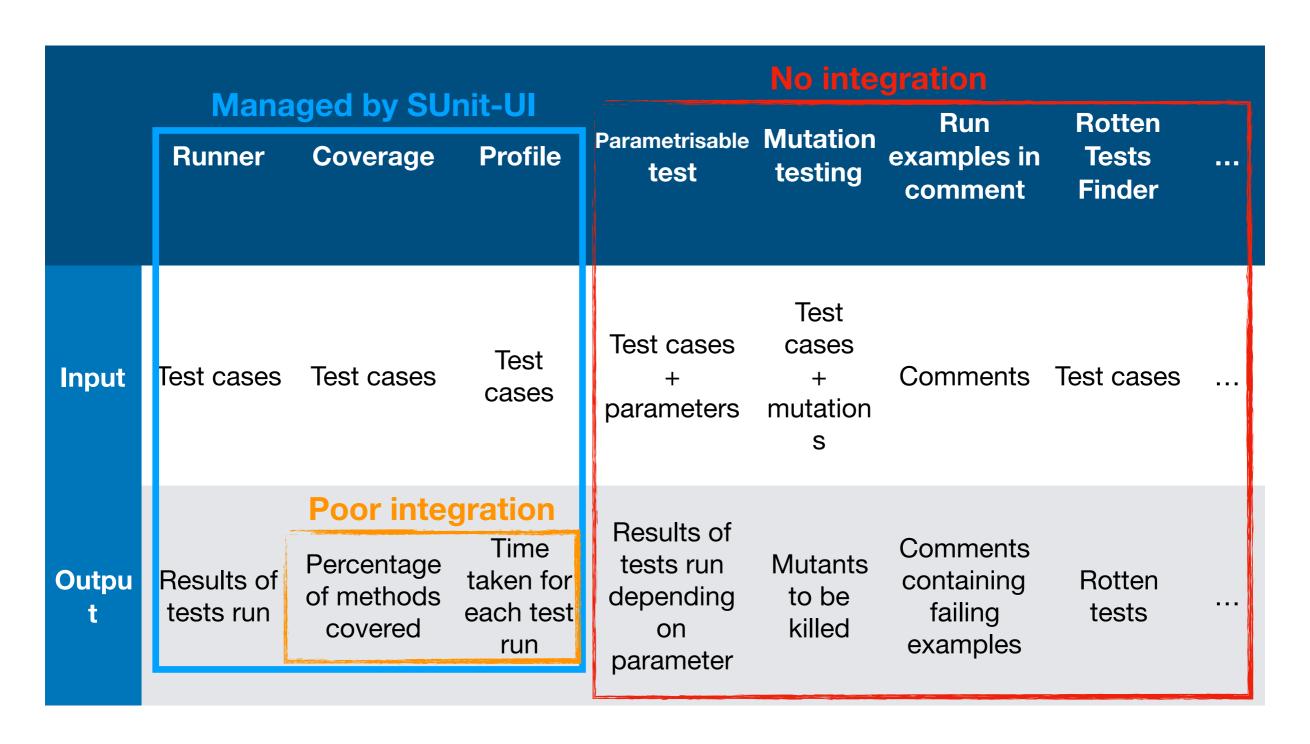
## TestRunner UI: coverage



## TestRunner UI: profile



#### What can we do with tests?



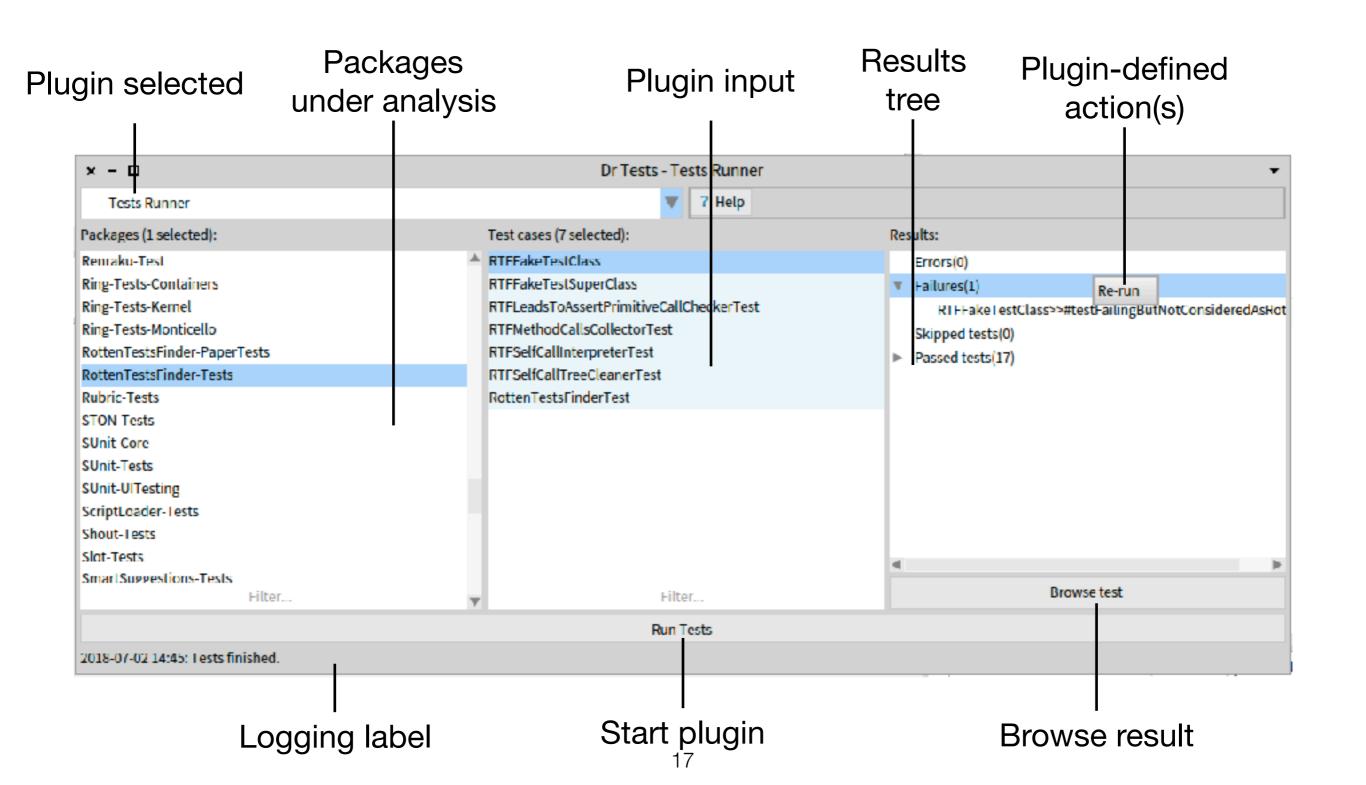
## Proposal: Dr Tests

#### Power-up testing experience in Pharo by:

Developing and promoting DrTests as the new UI for testing

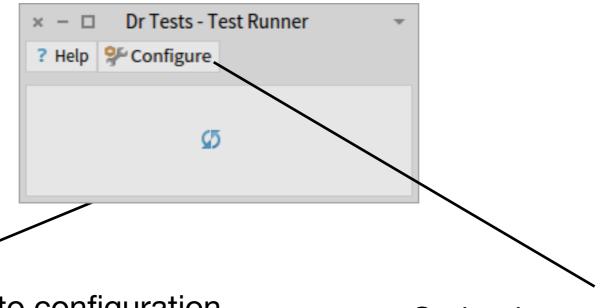
- Written in Spec
- Extensible via plugins
- Provides good model to configure, run and gather results from plugins

### **Dr Tests**



### Mini Dr Tests

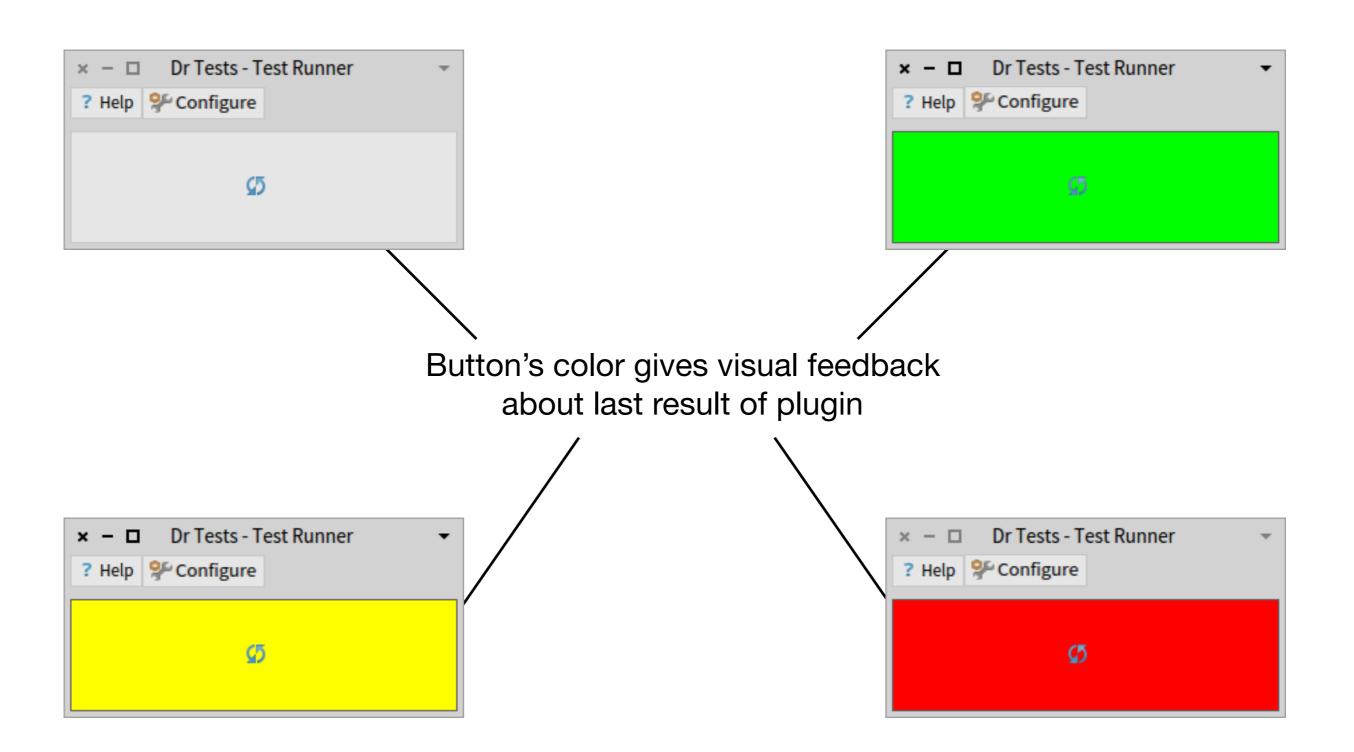
⇒Simplified view to use a plugin once it is configured



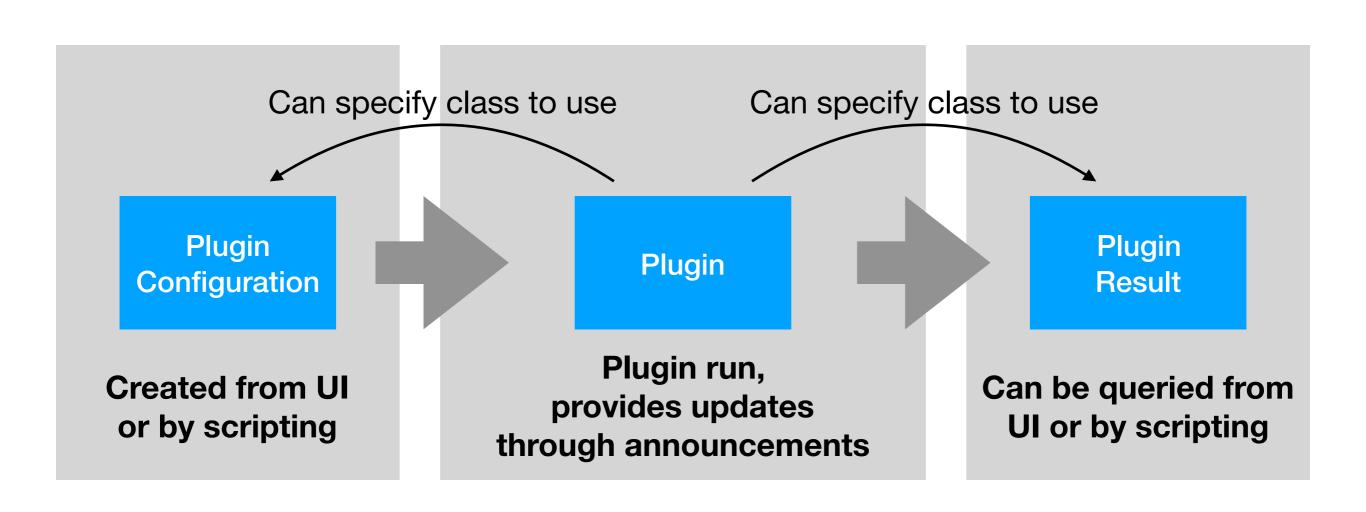
Button to re-run according to configuration

Go back to normal UI to configure plugins, input, etc.

### Mini Dr Tests



### Dr Tests model



## Conclusion

## Vision

→We want a testing ecosystem able to evolve

- ★Enhanced SUnit
- ★Uniform API for SUnit clients
- ★ Plugin-based testing UI = Dr Tests
- More tools to handle tests = Dr Tests plugins

### What's next?



Dayne is working on Dr Tests and SUnit enhancements

Clothilde will work on Smart Tests soon





## You can help the effort!







@juldelplanque