

Testing business applications with RCPTT

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Why UI testing?

- Test the final product (what the user gets)
- Test use cases, not classes
- More natural for regression testing

Struggling to find a good solution

- Not satisfied with productivity
- Can't really trust the results (false negatives)
- Still can't test some important UI things (like images, decorations, markers)

Example – checking an item in a table



A screenshot of a table interface. The table has a header row with a checkmark icon, an expand/collapse icon, an exclamation mark icon, and the text 'Description'. Below the header is a single data row with a checkbox, the text 'Check this item', and a partially visible 'Re' column on the right.

✓	^	!	Description	Re
<input type="checkbox"/>			Check this item	

- Click or check/uncheck?
- How to get/set current value?
 - MarkerViewerContentProvider
 - CheckboxCellEditor

Main points

- UI testing is really hard
- Blackbox testing is a myth (or a dream)
- Someone has to be an expert in internals – but who? Tool developers or QA engineers?

RCP Testing Tool

- Smart runtime focused on a single platform
- Explicit state management
- Automatic wait of background operations
- Productivity of test creation and maintenance

Demo

The bottom line

- RCPTT plays well with Eclipse projects
- Tests are independent from execution order or operating system
- Test designers can focus on product knowledge, not APIs knowledge

What's next?

- <http://eclipse.org/rcptt>
- [http://www.eclipse.org/rcptt/
documentation/userguide/getstarted/](http://www.eclipse.org/rcptt/documentation/userguide/getstarted/)
- <http://eclipse.org/forums/eclipse.rcptt>

Thank you!

Visit <http://eclipse.org/rcptt>