

Plan Generation for GUI Testing

- *The 21st International Conference on Software Engineering*
- *The Fifth International Conference on Artificial Intelligence Planning and Scheduling*
- *IEEE Transactions on Software Engineering*

GUI

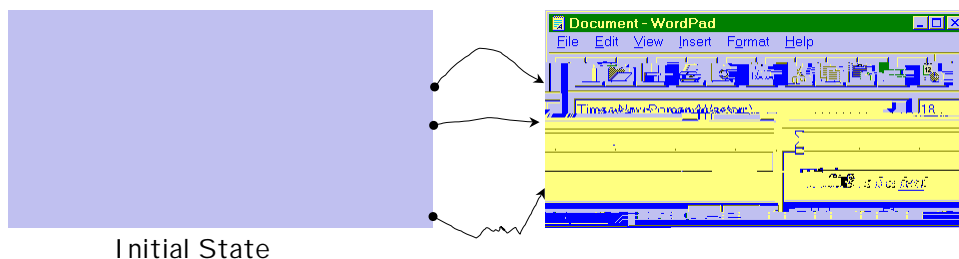
Underlying
code

Why Planning for GUI Testing

- GUIs are Event Driven
- Individual User Events
 - NOT ENOUGH !
 - Sequences of User Events lead to Different States
- Test Case: Sequence of User Events
- How to Generate Test Cases ?
- Use Planning to Select Likely Test Cases

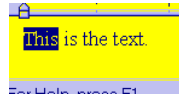
Selecting Test Sequences

- Infinitely Many
- Randomly Choose Sequences
- Expert Chooses Sequences
- Automatically Generate Events for COMMONLY USED TASKS

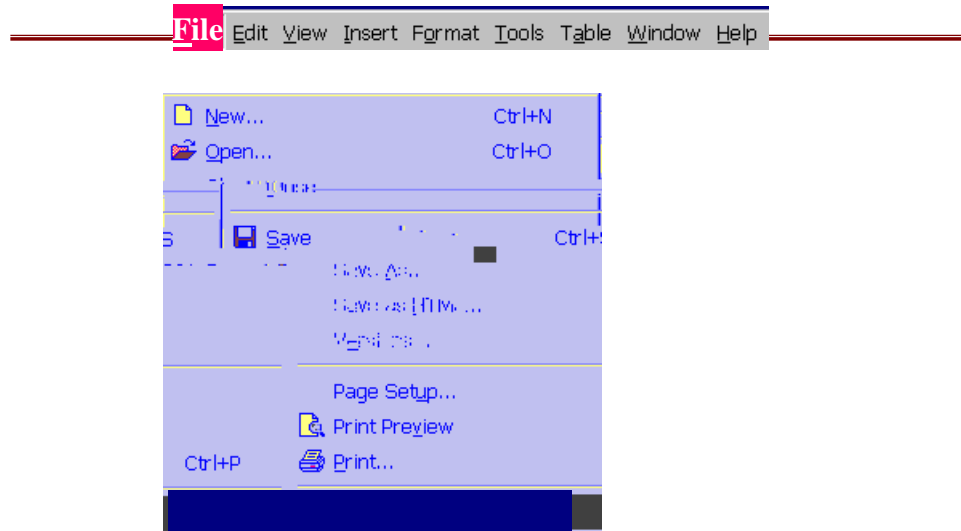


A Plan for a GUI Task

SelectText("This")



Opening Menus





Create Abstract Operators



