

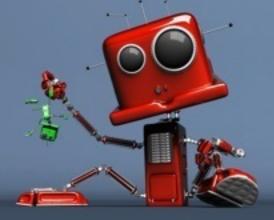
<u>Idea</u>



State Saving

- Stackless python
- Full State after each event.
- Sqlite3 database.
- Syntax

spython ../src/sa.py record <state file> <python code>



<u>Design</u>

- Syntax

spython ../src/sa.py history <state file> <object> <StateNo>

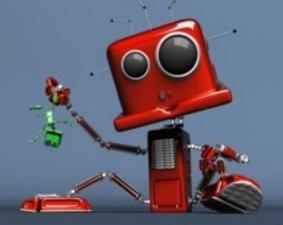
- Analysis:
 - Where object was created.
 - Where value was changed.
 - Get Bytecode of Creation/Modification location.
 - Get Constants.
 - Get Objects.
 - Get history of Objects.
 - Link the object history to the object.



Design 2

```
Draw:Object list :(State number, Object name, Object value, line of code)____(key)____|
```

Relation list:
Many-to-Many relationship
(Object 1 name, Object 1 state number, Object 2 name, Object 2 state number)



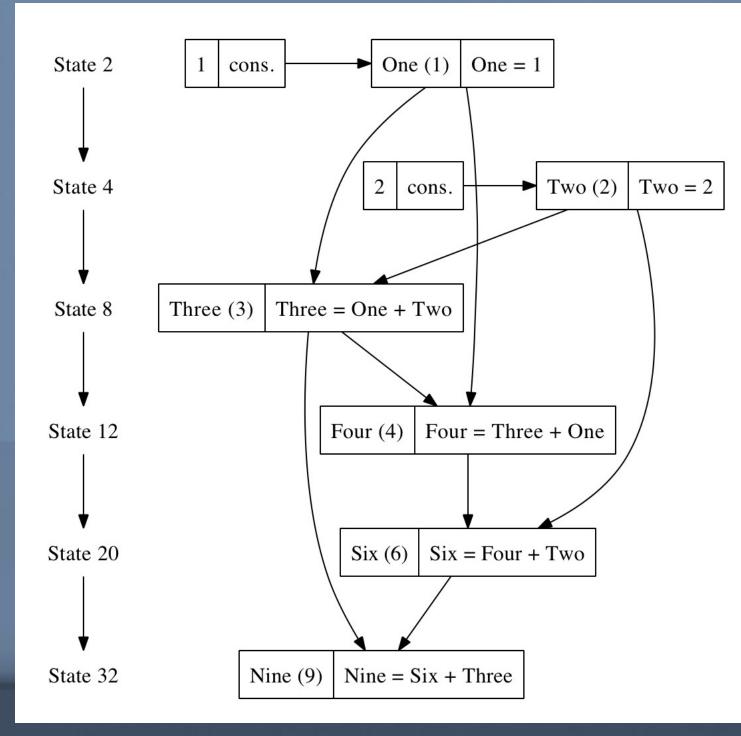
Design 3:

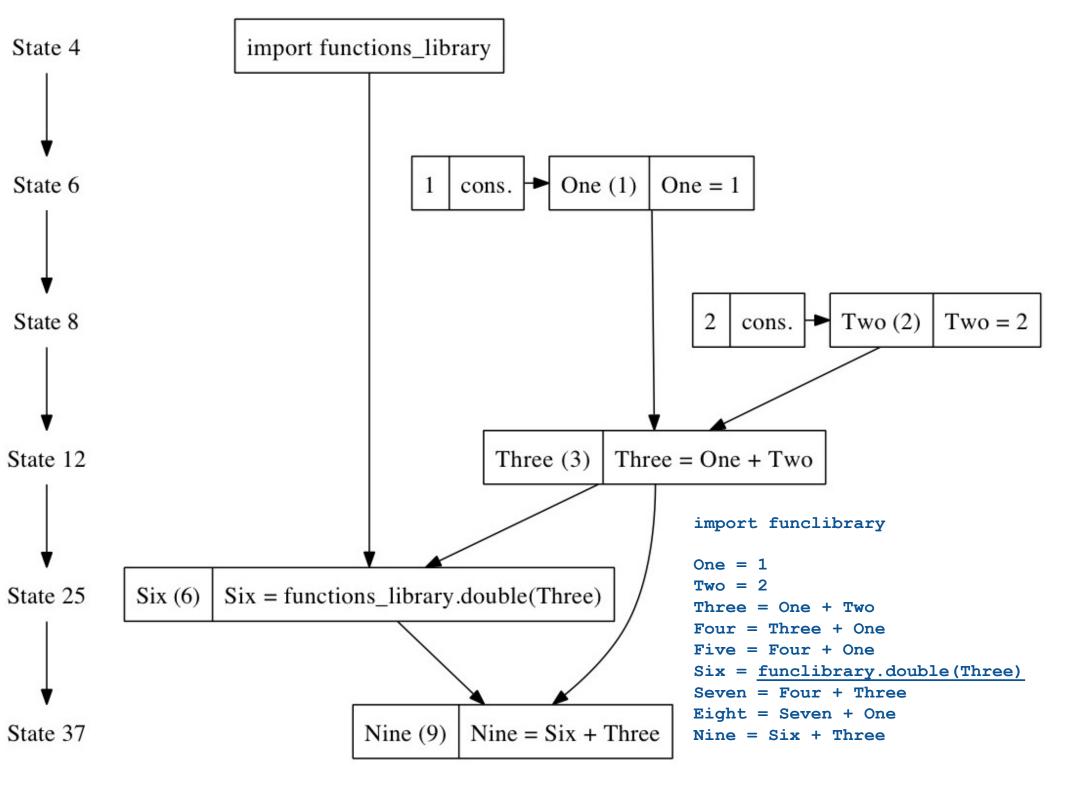
Map Keys:



Example

```
#python sample
One = 1
Two = 2
Three = One + Two
Four = Three + One
Five = Four + One
Six = Four + Two
Seven = Four + Three
Eight = Seven + One
Nine = Six + Three
```





Thank you

