

Reinteract

A better way to interact
with Python

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Reinteract Demos

- The basics
- Re-interaction
- Fixing up your mistakes
- Docs and completions
- Plotting
- Partial re-evaluation

A scope per “chunk”

```
N = 1000000
```

```
{N: 10000000}
```

```
s = 0
```

```
{N: 10000000, s:0}
```

```
for i in xrange(0,N):
```

```
    s += i
```

```
{N: 10000000, s:49999995000000}
```

```
s
```

```
def sum_range(n):
```

```
    return (n*n+1)/2
```

```
sum_range(N)
```

```
{N: 10000000, s:49999995000000,  
  sum_range: <function 'sum_range'>}
```

Can back up to any point

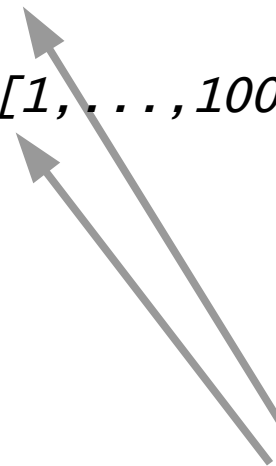
Shallow copies

```
a = range(100000000)
```

```
x = 1
```

```
{a: [1, ..., 100000000]}
```

```
{a: [1, ..., 100000000], x: 1}
```



Same object

Don't need to copy everything

Finding mutations

`x = [1, 2, 3]`

`x[0] = 4`

`{x: [1, 2, 3]}`

`{x: [4, 2, 3]}`

Not the same



Analyze syntax tree for mutations:

`x[0] = 4`

`x += [1]`

`x.y.z = 3`

More Information

<http://www.reinteract.org>

- Source code
- Binaries for OS X, Windows
- Documentation
- Link to discussion group