

# 1 Beginner Examples

## 1.1 Run Script

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```
from py_spectre import *  
pss = PySpectreScript('example.scs')  
pss.run()
```

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## 1.2 Run and Read Results

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```
from py_spectre import *  
pss = PySpectreScript('example.scs')  
pss.run()  
  
print pss.results()  
print pss.results('dc.dc')  
print pss.results('dc.dc', 'V0')
```

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## 1.3 Change Parameter and Run

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```
from py_spectre import *  
pss = PySpectreScript('example.scs')  
print pss.search('parameters')  
pss.search('parameters').change('VSWEEP', 2)  
print pss.search('parameters')  
pss.run()
```

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## 1.4 Print All Rs and Cs

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```
from py_spectre import *  
pss = PySpectreScript('example.scs')  
print pss.search('R*')  
print pss.search('C*')
```

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## 2 Intermediate Examples

### 2.1 Scale All Rs and Cs by 10%

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```
from py_spectre import *
pss = PySpectreScript('example.scs')
pss.search('R*').scale('r', 1.1)
pss.search('C*').scale('c', 1.1)
print pss.search('R*')
print pss.search('C*')
```

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### 2.2 Delete and Add Netlist Statements

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```
from py_spectre import *
pss = PySpectreScript('example.scs')
pss.remove('R1')
print pss.search('R*')
line_num = 5
ns = 'R1 V0 0 resistor r=3k'
pss.add(ns, line_num)
print pss.search('R*')
```

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### 2.3 Intermediate Search Examples

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```
from py_spectre import *
pss = PySpectreScript('example.scs')
# find all capacitors > 100fF
constraint = lambda C: C > 100e-15
print pss.search(p_name='c', p_val=constraint)
```

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## 3 Advanced Examples

### 3.1 gm/id for 5 processes