## JSON encoder and decoder

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Users\Ascendion> cd C:\Users\Ascendion\Desktop\Automation_Python
PS C:\Users\Ascendion\Desktop\Automation_Python> Start-Transcript -Path transcript.txt
Transcript started, output file is transcript.txt
Praiscript started, output file is transcript.txt
PS C:\Users\Ascendion\Desktop\Automation_Python>
Python 3.13.7 (tags/v3.13.7:bceelc3, Aug 14 2025, 14:15:11) [MSC v.1944 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import json
... json.dumps(['foo', {'bar': ('baz', None, 1.0, 2)}])
       print(json.dumps("\"foo\bar"))
       print(json.dumps('\u1234'))
       print(json.dumps('\\'))
      print(json.dumps({"c": 0, "b": 0, "a": 0}, sort_keys=True))
{"a": 0, "b": 0, "c": 0}
from io import StringIO
io = StringIO()
json.dump(['streaming API'], io)
       io.getvalue()
 "\"foo\bar"
  '\u1234"
"\ulz54
"\"" ["a": 0, "b": 0, "c": 0}
'["streaming API"]'
>>> import json
'sen dumps([1, 2, 3,
       json.dumps([1, 2, 3, {'4': 5, '6': 7}], separators=(',', ':'))
  [1,2,3,{"4":5,"6":7}]'
       import json
  Command Prompt
                                    X Windows PowerShell
       json.dumps([1, 2, 3, {'4': 5, '6': 7}], separators=(',', ':'))
 '[1,2,3,{"4":5,"6":7}]'
       print(json.dumps({'6': 7, '4': 5}, sort_keys=True, indent=4))
       "4": 5,
"6": 7
       import json
       def custom_json(obj):
            if isinstance(obj, complex):
    return {'__complex__': True, 'real': obj.real, 'imag': obj.imag}
raise TypeError(f'Cannot serialize object of {type(obj)}')
       json.dumps(1 + 2j, default=custom_json)
  '{"__complex__": true, "real": 1.0, "imag": 2.0}'
       json.loads('["foo", {"bar":["baz", null, 1.0, 2]}]')
       json.loads('"\\"foo\\bar"')
       from io import StringIO
io = StringIO('["streaming API"]')
       json.load(io)
['streaming API']
      import json
def as_complex(dct):
    if '__complex__' in dct:
        return complex(dct['real'], dct['imag'])
             return dct
       json.loads('{"__complex__": true, "real": 1, "imag": 2}',
    object_hook=as_complex)
```