

32. Python Language Services

Python provides a number of modules to assist in working with the Python language. These modules support tokenizing, parsing, syntax analysis, bytecode disassembly, and various other facilities.

These modules include:

- [32.1. parser — Access Python parse trees](#)
 - [32.1.1. Creating ST Objects](#)
 - [32.1.2. Converting ST Objects](#)
 - [32.1.3. Queries on ST Objects](#)
 - [32.1.4. Exceptions and Error Handling](#)
 - [32.1.5. ST Objects](#)
 - [32.1.6. Example: Emulation of `compile\(\)`](#)
- [32.2. ast — Abstract Syntax Trees](#)
 - [32.2.1. Node classes](#)
 - [32.2.2. Abstract Grammar](#)
 - [32.2.3. ast Helpers](#)
- [32.3. symtable — Access to the compiler's symbol tables](#)
 - [32.3.1. Generating Symbol Tables](#)
 - [32.3.2. Examining Symbol Tables](#)
- [32.4. symbol — Constants used with Python parse trees](#)
- [32.5. token — Constants used with Python parse trees](#)
- [32.6. keyword — Testing for Python keywords](#)
- [32.7. tokenize — Tokenizer for Python source](#)
 - [32.7.1. Tokenizing Input](#)
 - [32.7.2. Command-Line Usage](#)
 - [32.7.3. Examples](#)
- [32.8. tabnanny — Detection of ambiguous indentation](#)
- [32.9. pyc1br — Python class browser support](#)
 - [32.9.1. Class Objects](#)
 - [32.9.2. Function Objects](#)
- [32.10. py_compile — Compile Python source files](#)
- [32.11. compileall — Byte-compile Python libraries](#)
 - [32.11.1. Command-line use](#)
 - [32.11.2. Public functions](#)
- [32.12. dis — Disassembler for Python bytecode](#)
 - [32.12.1. Bytecode analysis](#)
 - [32.12.2. Analysis functions](#)
 - [32.12.3. Python Bytecode Instructions](#)
 - [32.12.4. Opcode collections](#)
- [32.13. pickletools — Tools for pickle developers](#)
 - [32.13.1. Command line usage](#)

- 32.13.1.1. Command line options
- 32.13.2. Programmatic Interface