

43-python-2-vs-3

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1 Python V2.7 vs V3.x

- If you find this issue fascinating, there's no shortage of lengthy things to read
- [Python 3 Q&A](#)
- [Porting to v3](#)
- [unicode issues](#)
- [Python 2 or 3](#)
- OpenStack, the largest open source python project, is [porting to v3](#)
- [py3readiness.org](#) shows what popular packages have been ported to v3
- unicode was added as an afterthought to v2
 - source of many bugs and inconsistencies
 - developers felt unicode had to be fully embraced if Python was to thrive in non-English cultures
- “as long as we're making incompatible changes, may as well fix some other stuff while we're at it”
- in v2:
 - print is a statement, not a function
 - many calls, like 'range', are memory inefficient, and were designed before the iteration protocol
- there was great resistance to V3.x for several years, but seems like tide has turned
- new projects should use V3.x

2 Tools

- [six](#) - lets you write code that will run in 2.7 or 3.X
- [2to3](#) - attempts to convert v2 code to v3 code
- [3to2](#) - attempts to convert v3 code to v2
- [Python Modernize](#) - attempts to convert v2 code to code that will run in both v2 and v3
- [Python-Future](#) - another package that supports code that runs in v2 and v3

In []: