## Python Secure Code Cheat Sheet - Checklist

Task/Vector	In-secure	Secure	Caveat/Other
Serialization/Des erialization	<pre>pickle(), cPickle(), yaml.load()</pre>	yaml.SafeLoader	For trusted inputs, pickle, yaml.load are still fine.
Secrets handling	random()	secrets()	
Injection	<pre>eval(), exec(), input(), popen (), subprocess(), os.system()</pre>		User input is evil for all of them, validate strictly.
Test code	assert()	If/else	Assert statements are skipped for compiled code, don't use for logic.
String formatting	f-strings, str.format()	Template class	Issues arises with unvalidated user input only.
XML Parsing	sax, etree, minidom, pulldom, xmlrpc	defusedxml	Issues arises with maliciously crafted data only.
Imports typo- squatting	acquisition, bzip, crypt, setup-tools, urlib3, diango, python3-dateutil, jeIlyfish	Acquisition, bz2file, crypto, setuptools, urllib3, Django, dateutil, jellyfish	Those are just a few examples. Import statements execute the code, so be careful with imports.

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Dependency management	pip install/pip freeze	pipenv	Nothing insecure with pip but for better management, use pipenv to lock dependencies and work in virtual env.
Creating temporary files	tempfile.mktemp()	tempfile.mkstemp()	More of a race condition issue which could lead to undesired output.