

What Is a Reasonable Percentage for Code Coverage and Why Is It 100%?

PyOhio 2022, July 30, 2022

Jürgen Gmach, Software Engineer at Canonical

 [@jugmac00](https://twitter.com/jugmac00)

 juergen.gmach@googlemail.com

 <https://jugmac00.github.io/>



Luciano Ramalho

@ramalhoorg



Early one morning, a programmer asked the great master:

“I am ready to write some unit tests. What code coverage should I aim for?”

developertesting.com/archives/month...

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Uncle Bob Martin

@unclebobmartin



Does code coverage follow the 80-20 rule? No. If you have 80% coverage you don't know if 20% of your code works.

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Pedro Pereira Santos

@donbonifacio



I just published “Why should we aim for 100% code coverage?”

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medium.com

Why should we aim for 100% code coverage?

I never worked on a project with 100% code coverage. I've worked on several projects with a high coverage and a test ...

10:46 vorm. · 7. März 2018 · Medium

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Sasha Rosenbaum 

@DivineOps



Antwort an [@EmmaBostian](#)

Microsoft doesn't aim for a 100% code coverage

It's a useful metric, but metrics are a double-edge sword, since most of them can be gamed

Example: number of lines of code or closed bugs as productivity metrics (both are a terrible idea)

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tonycapp
@tonycapp



Antwort an [@MicahPearce](#) und [@pytestdotorg](#)

No one ever goes for 100% coverage, except a few military contractors.

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5:55 vorm. · 9. Juli 2020 · Twitter for iPhone



Twitterere deine Antwort

Antworten



Ed Jung @ejjcatx · 9. Juli 2020



Antwort an [@tonycapp](#) [@MicahPearce](#) und [@pytestdotorg](#)
And interns.



2



2



@jugmac00



Mike Driscoll

@driscollis



Antwort an [@jugmac00](#) [@jezdez](#) und [@pganssle](#)

Our code base is too large to ever hit 100%. It's a good goal to have with new projects though

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Martijn Faassen

@faassen



Antwort an [@jugmac00](#) und [@brianokken](#)

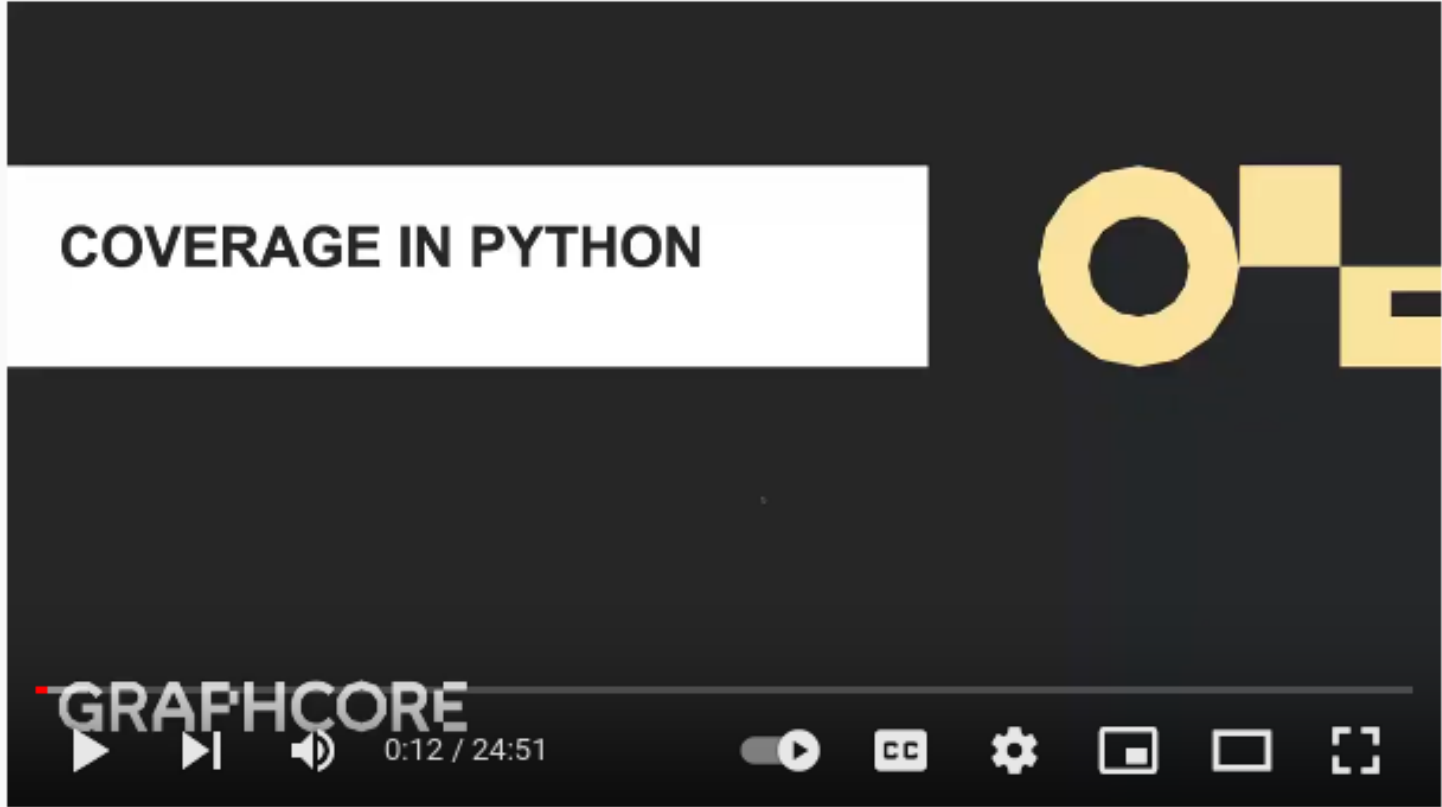
I often find myself not really worrying about coverage. I worry about testing important parts of the behavior and edge cases and such. Not sure that's an answer?

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Coverage in Python – pros and cons

416 views Apr 26, 2021 Speaker: Svet Hristozkov, Verification Engineer, Graphcore
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Jürgen Gmach
@jugmac00

All the reasons why I dislike online coverage tools in one picture...

I moved a test from one file to another - as `sys` was already imported in the other file, there is a diff of 2 lines - although coverage stayed at 100%.

codecov causes the build to fail because of that 🤬

Files	Diff	Green	Yellow	Red	Coverage
config	0	0	0	0	100.00%
execute	0	0	0	0	100.00%
session	+12	+12	0	0	100.00%
tox_env	-14	-14	0	0	100.00%
util	0	0	0	0	100.00%
conftest.py	0	0	0	0	100.00%
demo_pkg_inline/build.py	0	0	0	0	100.00%
journal/test_main_journal.py	0	0	0	0	100.00%
plugin/test_inline.py	0	0	0	0	100.00%
pytest_/test_init.py	0	0	0	0	100.00%
test_call_modes.py	0	0	0	0	100.00%
test_provision.py	0	0	0	0	100.00%
test_report.py	0	0	0	0	100.00%
test_run.py	0	0	0	0	100.00%
test_version.py	0	0	0	0	100.00%
Folder totals (67 files)	2922	2922	0	0	100.00%
Project totals (146 files)	7897	7883	11	3	99.82%



Paul Ganssle

@pganssle



Antwort an [@driscollis](#) [@jugmac00](#) und [@jezdez](#)

There's no useful *metric* other than 100% because lines covered aren't fungible.

2:17 nachm. · 2. Mai 2021 · Twitter Web App



Bonus



Ned Batchelder @nedbat · May 23, 2022



Replying to @feoh @pythonbytes and 2 others

That's not the reason :) How do you trace the code in a trace function?



Paul Ganssle

@pganssle · [Follow](#)

Is this not the kind of thing that #pragma: nocover is for?

Or is the idea that it is theoretically possible to test this, but you haven't gotten a good design yet, so you want the total coverage to reflect that?

8:07 PM · May 23, 2022



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<https://jugmac00.github.io/hiring/>

Contact

 [@jugmac00](https://twitter.com/jugmac00)

 juergen.gmach@googlemail.com

 <https://jugmac00.github.io/>

@jugmac00