



Insights about Swift Testing Tags

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#1 Tags

What are Swift Testing Tags? 🤥

- Tags are the new feature that comes together with Xcode 16.0 and Swift Testing framework.
- Designed to help you categorize your tests.
- Tags can help you divide tests within a test target into few executable test plans.



#2 Tags for Test

The first step is our tag definition. Do it by defining a static property in an extension to the Tag using @Tag

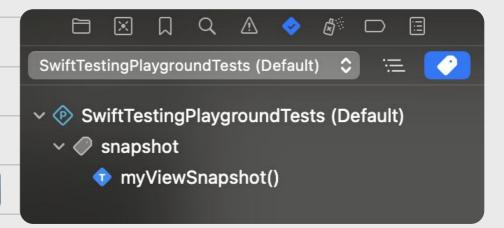
macro. 🔃

```
extension Tag {
    @Tag static let snapshot: Self
```

Next, apply it to the test 💟

```
@Test(.tags(.snapshot))
func myViewSnapshot() { ... }
```

and then it's categorized in the test navigator 🔛





#3 Tags for Suite

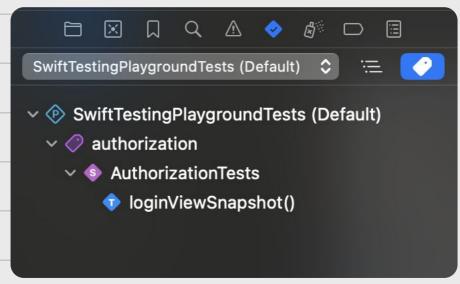
Is it possible to tag Suites? - Yes! 🎉



It's a simple as for a single Test 💟

```
extension Tag {
    @Tag static let authorization: Self
@Suite(.tags(.authorization))
struct AuthorizationTests {
    @Test func loginViewSnapshot() { }
```

test are displayed under the Tag in the test navigator 🔛





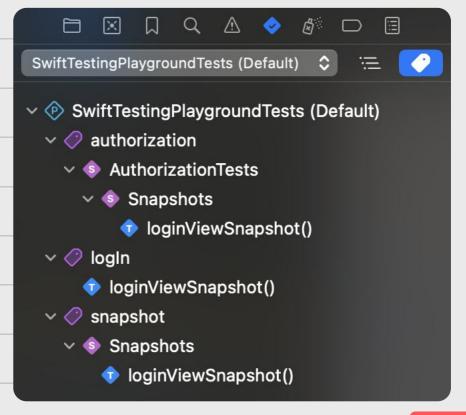
#4 Tags Nesting

It's possible to nest Tags freely in Suites ...

```
@Suite(.tags(.authorization))
struct AuthorizationTests {

    @Suite(.tags(.snapshot))
    struct Snapshots {
        @Test(.tags(.logIn))
        func loginViewSnapshot() { }
    }
}
```

tests navigator with nested Tags



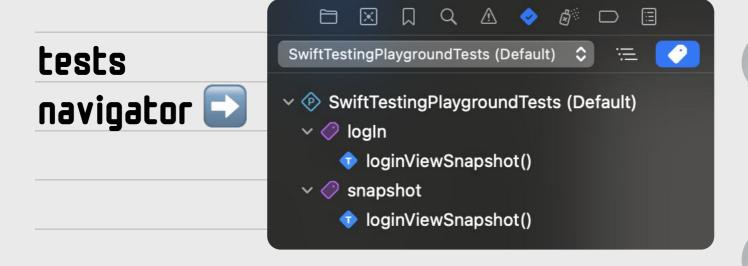


#5 Multiple Tags

Need more than one tag? - No worries, it's possible!

When constructing the list of Tags using .tags() function, it accepts zero or more than one tag as an argument (because it's variadic argument - "Tag...").

```
@Suite
struct AuthorizationTests {
    @Test(.tags(.logIn, .snapshot))
    func loginViewSnapshot() { }
}
```





#6 Tags in Test Plan

Thanks to tagging, it's possible to define test plans based on them.

My use case:

Unit and snapshot tests mixed in one target. By tagging tests it's easy to create two testing plans: one for unit tests, second for snapshot tests.

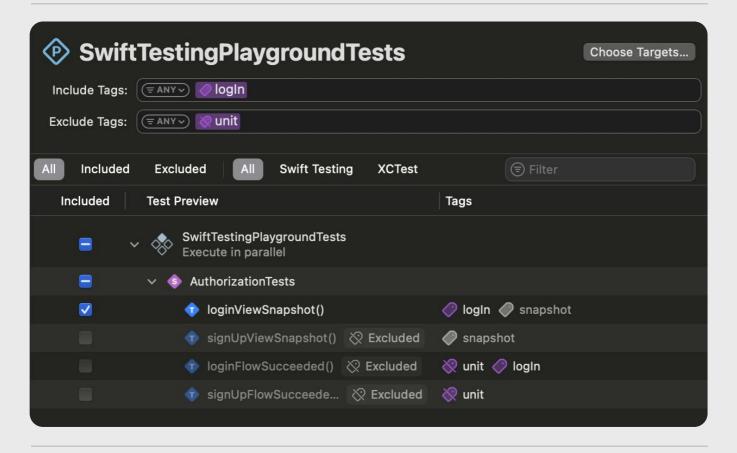
SwiftTestingPlaygroundTests			Choose Targets
Include Tags:	Snapshot		
Exclude Tags:			
All Included	Excluded All Swift Testing	(CTest	
Included	Test Preview	Tags	
- ~	SwiftTestingPlaygroundTests Execute in parallel		
=	∨ § AuthorizationTests		
☑	oginViewSnapshot()	🧷 snapshot 🥏 login	
☑	signUpViewSnapshot()	snapshot	
	oginFlowSuc 🔆 Excluded	🥏 logIn 🥏 unit	
	signUpFlowSu 🚫 Excluded	unit	



#7 Excluded Tags in Test Plan

It's possible to exclude tests using tags.

Remember that exclusion has priority over inclusion. If a test is marked with tag A and B, tag A is included and tag B excluded - the test will not execute

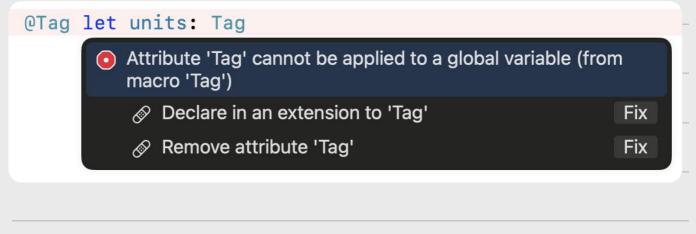




#8 Custom Tags

When defining tags remember they have to be defined inside the tag extension. If not, Xcode will remind you about that.







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