

# Putting Software Testing Terminology to the Test

## M.A.Sc. Seminar

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- The Need for Standardized Terminology
- The Lack of Standardized Terminology

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# The Need for Standardized Terminology

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- Imagine if other fields used unclear, inconsistent, and incorrect terminology:
  - Force
  - Isotope
  - Phalange

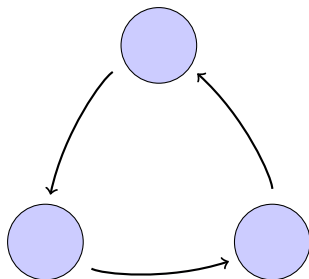
# The Need for Standardized Terminology

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If software engineering holds code to high standards of clarity, consistency, and robustness, the same should apply to its supporting literature!

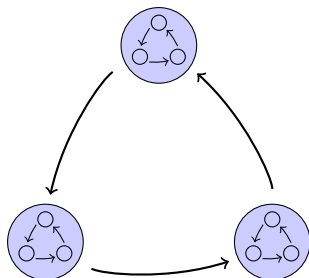
## Interorganizational

Schools, companies, etc.



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## Intraorganizational

Kaner et al. (2011, p. 7) say  
“complete testing” could require the  
tester to:

- discover “every bug”,
- exhaust the time allocated,
- implement every planned test,
- ...



# The Lack of Standardized Terminology

## “The Problem”

- Unfortunately, a search for a systematic, rigorous, and complete taxonomy for software testing revealed that the existing ones are inadequate:
  - Tebes et al. (2020) focus on *parts* of the testing process (e.g., test goal, testable entity),
  - Souza et al. (2017) prioritize organizing testing approaches over defining them, and
  - Unterkalmsteiner et al. (2014) focus on the “information linkage or transfer” (p. A:6) between requirements engineering and software testing.

# Unstandardized Standards

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  - “organized around a special focus” (Hamburg and Mogyorodi, 2024)

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  - loads that are as large as possible (Patton, 2006, p. 86)

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“Okay testing team, we want to conduct alpha testing on our product. What’s our timeline? Budget? Sample size?”

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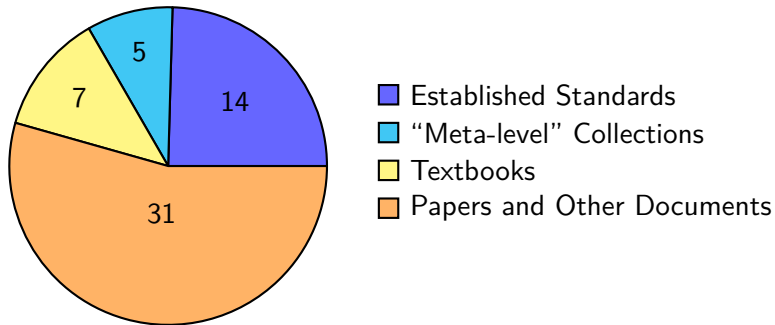
## Research Question 2

What discrepancies exist between descriptions of these testing approaches?

## Research Question 3

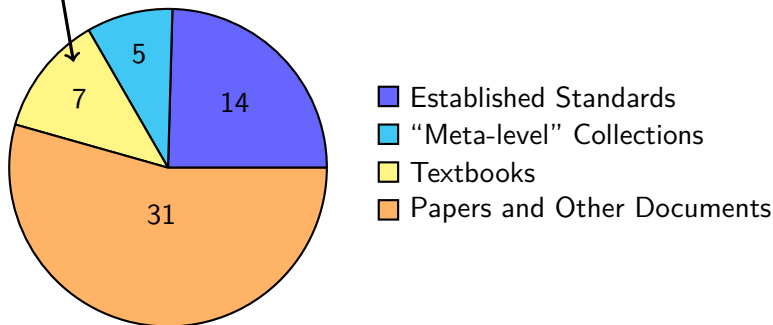
Is it possible to resolve/reduce any of these discrepancies systematically?

# Sources



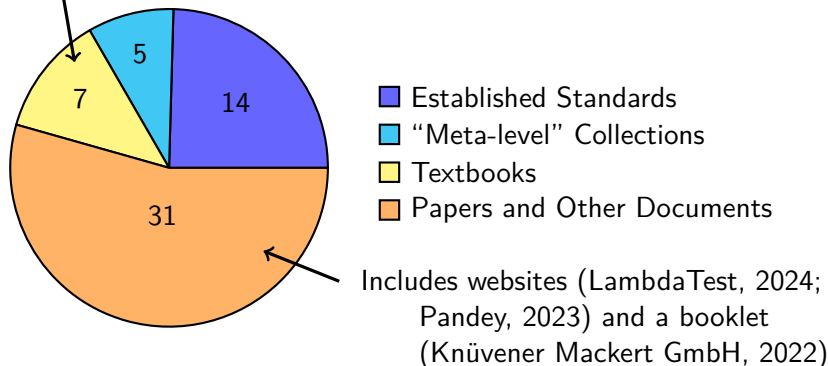
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- The past and current Drasil team have created a truly amazing framework!

Thank you!  
Questions?

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