

# Committing to Writing Good Commit Messages

Supporting the Creation of Human- and  
Machine-Readable Commit Messages with  
Python and Machine Learning

Teona Bagashvili  
Gregory M. Kapfhammer

PyCon 2021 Lightning Talk



CommittedTeam/CommitCanvas

# Committing to Better Commit Messages



Insert



Delete



Files



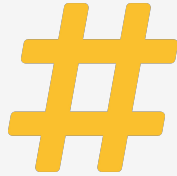
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**git commit**

Editor Integration

Command-line Application

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**“Update the build.yml file to run OS matrix”**

Message



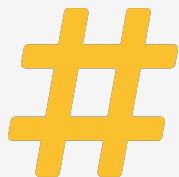
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Message? Label? Standard?  
Punctuation? Tense?

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**Challenge:** Label must match the commit

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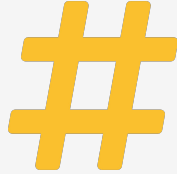
# Tool Support for Better Commit Messages



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## CommitCanvas

Pre-commit Hook

Command-line Application

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## CommitCanvas

Pre-commit Hook

Command-line Application

Update the build.yml file to run OS matrix

Integrate the use of textcat with spaCy's CNN

Reformat source code to adhere to all checks

Add visualization of model to README.md

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## Goal: Predict message's label

Automated, Fast, Accurate

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Provided



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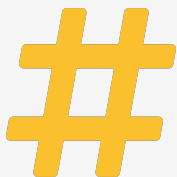
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**Tool release mid-June, 2021!**