

# pre-commit hooks

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## georgernstgraf

a pre-commit hook to prohibit not w3c valid code with git and vscode

## GitHub Copilot

To create a pre-commit hook that prohibits committing non-W3C valid HTML code, follow these steps:

Install the necessary tools: You need to install `html-validator-cli` which is a command-line interface for the W3C HTML Validator.

Create the pre-commit hook: Write a script that runs the HTML validator on the staged files and prevents the commit if any file is not valid.

## Step-by-Step Plan

### Install `html-validator-cli`

```
npm install -g html-validator-cli
```

### Create a pre-commit hook script

- Navigate to your Git repository.
- Create a new file in the `.git/hooks` directory named `pre-commit`.
- Make the script executable.

### Write the script

- The script will find all staged HTML files.
- It will run the `html-validator` on each file.
- If any file is not valid, it will prevent the commit.

### Pre-commit Hook Script

```

# !/bin/sh

# Get a list of all staged HTML files
STAGED_HTML_FILES=$(git diff --cached --name-only --diff-filter=ACM | grep
'\.html$')

# If there are no HTML files, exit
if [ -z "$STAGED_HTML_FILES" ]; then
    exit 0
fi

# Validate each HTML file
for file in $STAGED_HTML_FILES; do
    echo "Validating $file..."
    html-validator --file="$file" --verbose
    if [ $? -ne 0 ]; then
        echo "HTML validation failed for $file. Commit aborted."
        exit 1
    fi
done

echo "All HTML files are valid. Proceeding with commit."
exit 0

```

## Make the Script Executable

```
chmod +x .git/hooks/pre-commit
```

## Explanation

- Install html-validator-cli: This tool will be used to validate HTML files.
- Pre-commit Hook Script:
  - `git diff --cached --name-only --diff-filter=ACM | grep '\.html$'`: Finds all staged HTML files.
  - `html-validator --file="$file" --verbose`: Validates each HTML file.
  - If validation fails, the commit is aborted with an appropriate message.

This setup ensures that only W3C valid HTML code can be committed to your repository.