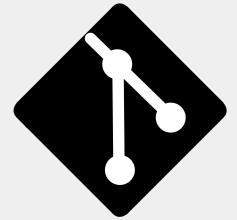


# Commit messages as a long term investment



Structuring history for the future.

Faisal Al-Rayes  
Software Delivery Engineer

# whoami

---

```
🏠 ~ > git config --get user.name
Faisal Al-Rayes
🏠 ~ > git config --get user.server
Hashemite Kingdom of Jordan
🏠 ~ > git config --get user.uni
Czech Technical University in Prague (CVUT)
🏠 ~ > git config --get user.study
Mechanical Engineering (IT and Automation)
🏠 ~ > git config --get user.occupation
Software Delivery Engineer at Red Hat
🏠 ~ > git config --get user.hobbies
- Latin Dancing
- Psychology
- Financial Markets
```

# Git log of shame

Update README.md	Verified	22e213f	📄 <>
FaisalAl-Rayes authored on Mar 28, 2022			
Update		e3bbf60	📄 <>
FaisalAl-Rayes committed on Mar 28, 2022			
Update		f59e46c	📄 <>
FaisalAl-Rayes committed on Mar 28, 2022			
Update		88e32f4	📄 <>
FaisalAl-Rayes committed on Mar 28, 2022			
Merge branch 'master' of <a href="https://github.com/FaisalAl-Rayes/Test-Automation-Challenge">https://github.com/FaisalAl-Rayes/Test-Automation-Challenge</a>		72206ba	📄 <>
FaisalAl-Rayes committed on Mar 28, 2022			
Update		9ba8ade	📄 <>
FaisalAl-Rayes committed on Mar 28, 2022			
Update README.md	Verified	5517fbc	📄 <>
FaisalAl-Rayes authored on Mar 28, 2022			
Update with test_C		81daaff	📄 <>
FaisalAl-Rayes committed on Mar 28, 2022			
Commits on Mar 26, 2022			
Update		be40928	📄 <>
FaisalAl-Rayes committed on Mar 26, 2022			
Update		0fd756a	📄 <>
FaisalAl-Rayes committed on Mar 26, 2022			
Update		632e801	📄 <>
FaisalAl-Rayes committed on Mar 26, 2022			
Update		266824b	📄 <>
FaisalAl-Rayes committed on Mar 26, 2022			
<a href="#">Previous</a> <a href="#">Next</a> >			

# What value can I extract from this talk?

- Think at the forefront of your mind of the way you structure your commits.
- Think of commit message structures that would make sense for the projects you work on.



Work  
(Commit Change)

Gather  
(Commit Construction)

Label  
(Commit Message)

Publish  
(Commit Push)



# Agenda

“0”: “Understand commits on a high level”,

“1”: “Commit structure elements”,

“2”: “Commit message example”,

“3”: “tools that could be helpful”

# Ground up understanding of git commits

Git commits are meant to package a set of changes into a single unit of storage and need a good label to perform their job well.



## Commit structure elements

These are some of the most common structure elements when it comes to commit messages.



### Commit Title

What does the commit enable/do? (start with uppercase imperative verb)



### Reasoning

Why was this commit necessary?



### Methodology

How was this change implemented?



### Line lengths

Keep the title length up to 50 characters and the rest up to 72 characters.

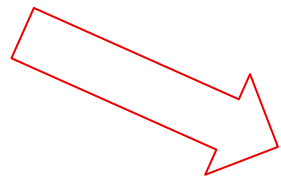


# Commit title

An illustration of what this commit represents.



```
ca5a88c (HEAD -> master) Deleted sms_auth() method
```



```
8906b28 (HEAD -> master) Drop sms authentication support
```

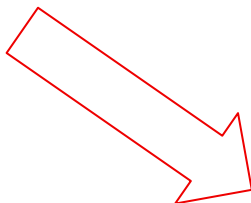


# Commit reasoning

An illustration of why this commit was necessary.



```
ca5a88c (HEAD -> master) Deleted sms_auth() method
```



```
commit 19e0b09e1f47789d98f458b9806eb8cddb060575 (HEAD -> master)  
Author: Faisal Al-Rayes <falrayes@redhat.com>  
Date: Sun Aug 11 16:52:22 2024 +0200
```

Drop sms authentication support

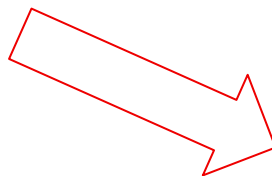
This change is due to X and Y which makes it necessary to drop this capability to comply with Z.

# Commit methodology

An illustration of commit information on how the change was done.



```
ca5a88c (HEAD -> master) Deleted sms_auth() method
```



```
commit 5b6cd0f18269cf2b917b2a2ab3b431d9cc26140c (HEAD -> master)
Author: Faisal Al-Rayes <falrayes@redhat.com>
Date:   Sun Aug 11 16:52:22 2024 +0200

    Drop sms authentication support

    This change is due to X and Y which makes it necessary to drop this
    capability to comply with Z.

    The capability was dropped through deleting the sms_auth method and
    removing sms authentication from the auth_methods_white_list in the
    authenticator
```

# Resources and Tools



# Conventional Commits

<https://www.conventionalcommits.org/>

```
<type>[optional scope]: <description>
```

```
[optional body]
```

```
[optional footer(s)]
```

# Gitlint

<https://jorisroovers.com/gitlint/>

```
$ pip install gitlint
100%
Successfully installed gitlint-core, gitlint

# Add a bad commit message
$ git commit --allow-empty -m " WIP: My bad commit title." -m "who   cares "

# Run gitlint!
$ gitlint
1: T3 Title has trailing punctuation (.): " WIP: My bad commit title."
1: T5 Title contains the word 'WIP' (case-insensitive): " WIP: My bad commit title."
1: T6 Title has leading whitespace: " WIP: My bad commit title."
3: B2 Line has trailing whitespace: "who   cares "
3: B3 Line contains hard tab characters (\t): "who   cares "
3: B5 Body message is too short (10<20): "who   cares "

# Gitlint is perfect for use in your CI pipeline.
# Also available as a commit-msg hook or via pre-commit.
```

# Commit Message Template

<https://git-scm.com/docs/git-commit/2.10.5#Documentation/git-commit.txt---templatefilegt>

```
#####
# What does this allow the code to do (or not do)?
# Start with an uppercase imperative verb.
# example:
# <fix/improv/feat/etc.>: Establish the ...
# <-----50 char maximum----->
#####

# <-----72 char maximum per line----->
#####
# Why was this commit necessary?
#####
Why:

#####
# How was this change implemented?
#####
How:

#####
# Which issues/tickets to track are relevant for this commit?
#####
```

```
git config --global commit.template <path-to-template-file>
```

Or

add the following to your <cloned-repo>/git/config file

```
[commit]
  template = <path-to-template-file>
```



Thank you for you  
attention!



**in** [linkedin.com/in/faisalalrayyess](https://www.linkedin.com/in/faisalalrayyess)