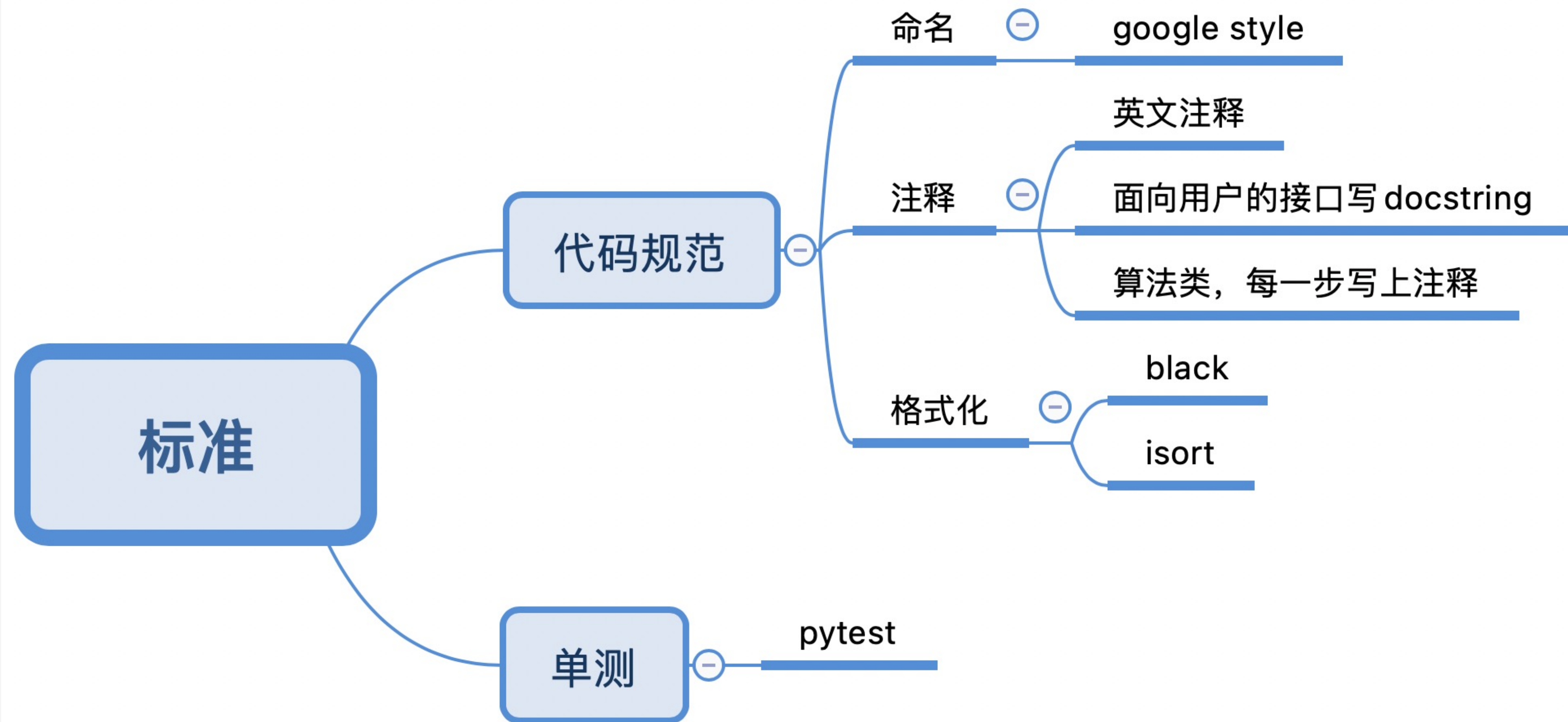代码规范 & 常见 CI 问题

SECRET FLOW 隐语
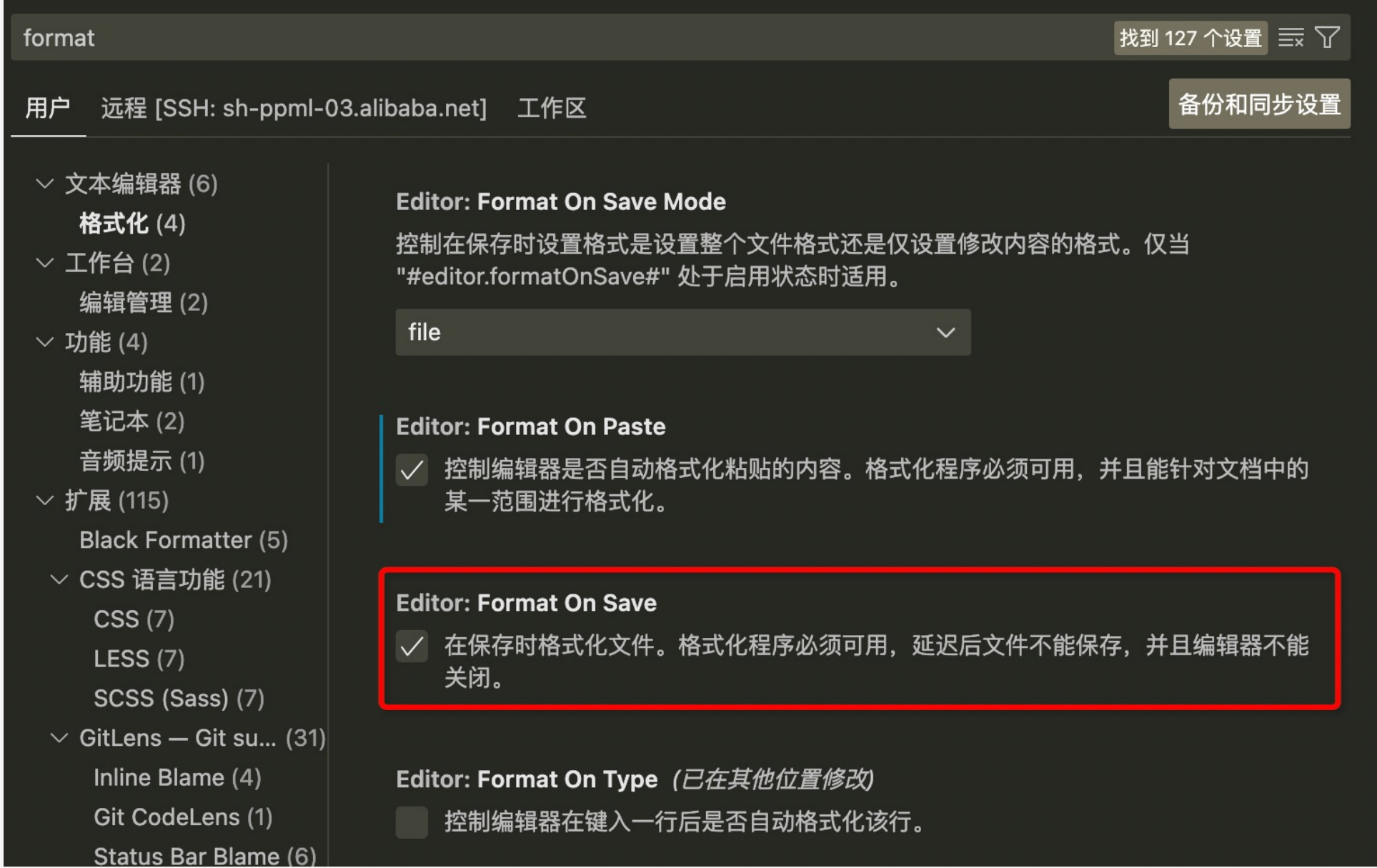
代码规范

01

- [Google 代码规范](#)

- [Black 文档](#)

- [Format in VSCode](#)

- [iSort文档](#)

Choose a formatter

Search the VS Code Marketplace for the formatter extension of your choice.

Microsoft publishes the following formatting extensions:

Formatter	Extension
autopep8	https://marketplace.visualstudio.com/items?itemName=ms-python.autopep8
Black formatter	https://marketplace.visualstudio.com/items?itemName=ms-python.black-formatter

Formatter extensions offered by the community:

Formatter	Extension
Ruff	https://marketplace.visualstudio.com/items?itemName=charliermarsh.ruff
yapf	https://marketplace.visualstudio.com/items?itemName=eeyore.yapf

Furthermore, below are formatter extensions that support import sorting:

Formatter	Extension
Ruff	https://marketplace.visualstudio.com/items?itemName=charliermarsh.ruff
isort	https://marketplace.visualstudio.com/items?itemName=ms-python.isort

单测-pytest

Device
https://github.com/secretflow/secretflow/blob/main/tests/conftest.py
写测试时选择合适的device即可

执行测试
pytest --env prod/sim -n auto 路径 【只会执行一个】
Eg:
    pytest --env sim -n auto tests/ml/nn/sl/test_sl_model_tf.py
    pytest --env prod -n auto tests/ml/nn/sl

注意：
单测中如果需要output，使用logging.warning.
标准屏幕输出会被pytest接管。

Best practice

1、单测很重要，提交功能性代码一定要附上单测

2、线下跑单测，按照报错提示进行修改

3、使用logging.warning进行内容输出

4、全部单测都可以通过，申请code review

CI问题

02

✕	Python Linter / python-linter / lint (pull_request)	Failing after 26s	Details
✓	Bazel files linter / bazel-formatting-check / Run buildifier check (pull_request)	Successful in ...	Details
✓	CLA Assistant / CLAssistant / CLAssistant (pull_request_target)	Successful in 9s	Details
✓	Run clang-format Linter / run-clang-format / build (pull_request)	Successful in 23s	Details
✓	Yaml Lint / yaml-linter / lintAllTheThings (pull_request)	Successful in 9s	Details
✓	ci/circleci: filter — Your tests passed on CircleCI!		Details
✓	ci/circleci: linux_ut — Your tests passed on CircleCI!		Details
✓	ci/circleci: macos_ut — Your tests passed on CircleCI!		Details
✓	unittest Successful in 10m — Workflow: unittest		Details
✓	unittest-workflow Successful in 14s — Workflow: unittest-workflow		Details

```
326  +        ),
327        ],
328    )
329    device_list = [alice, bob]
330    server = charlie
331    aggregator = SecureAggregator(server, [alice, bob])
332  --- /home/runner/work/secretflow/secretflow/examples/app/h_cv/fed_dyn/FedDYN.ipynb    2024-01-26 08:07:50.888562 +0000:cell_12
333  +++ /home/runner/work/secretflow/secretflow/examples/app/h_cv/fed_dyn/FedDYN.ipynb    2024-01-26 08:08:03.104809 +0000:cell_12
334  @@ -8,7 +8,7 @@
335    plt.plot(history['local_history']['alice_val_eval_multiclassaccuracy'])
336    plt.plot(history['local_history']['bob_val_eval_multiclassaccuracy'])
337    plt.title('FLModel accuracy in FedDYN')
338    plt.ylabel('Accuracy')
339    plt.xlabel('Epoch')
340  -plt.legend(['Train', 'Valid','alice_T','bob_T','alice_V','bob_V'], loc='upper left')
341  +plt.legend(['Train', 'Valid', 'alice_T', 'bob_T', 'alice_V', 'bob_V'], loc='upper left')
342    plt.show()
343  --- /home/runner/work/secretflow/secretflow/examples/app/h_cv/fed_dyn/FedDYN.ipynb    2024-01-26 08:07:50.888562 +0000:cell_15
344  +++ /home/runner/work/secretflow/secretflow/examples/app/h_cv/fed_dyn/FedDYN.ipynb    2024-01-26 08:08:03.104809 +0000:cell_15
345  @@ -8,7 +8,7 @@
346    plt.plot(history_2['local_history']['alice_val_eval_multiclassaccuracy'])
347    plt.plot(history_2['local_history']['bob_val_eval_multiclassaccuracy'])
348    plt.title('FLModel accuracy in FedAvg')
349    plt.ylabel('Accuracy')
350    plt.xlabel('Epoch')
351  -plt.legend(['Train', 'Valid','alice_T','bob_T','alice_V','bob_V'], loc='upper left')
352  +plt.legend(['Train', 'Valid', 'alice_T', 'bob_T', 'alice_V', 'bob_V'], loc='upper left')
353    plt.show()
354  would reformat /home/runner/work/secretflow/secretflow/examples/app/h_cv/fed_dyn/FedDYN.ipynb
355
356  Oh no! 💥 💔 💥
357  1 file would be reformatted, 905 files would be left unchanged.
358  Error: Process completed with exit code 1.
```

社区会议联邦学习方向

隐语1.3.0版本主要功能要点介绍

2024年0204

Debug 模式

01

Debug 模式

```python
sf.init(
    ['alice', 'bob', 'charlie'],
    debug_mode=True
)
```

https://www.secretflow.org.cn/docs/secretflow/v1.3.0b0/zh-Hans/getting_started/debug_mode

杂项

02

杂项

➤ applications：

    SL: DeepFM/BST/MMoE/VGG/ResNet

    FL: 多种应用训练和微调示例

➤ framework：

    callbacks: 新 callback 机制的初步版本（FL/SL）

    server_agg_method: 自定义聚合逻辑（FL）

    AggLayer：聚合层，内置支持 SPU 等设备聚合，并支持自定义（SL）

    more...