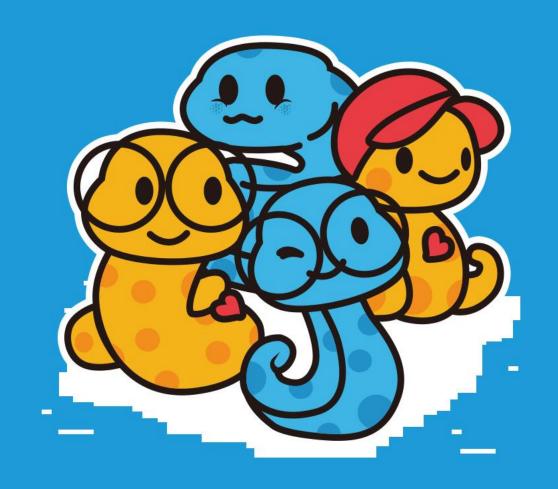
## PyCon China 2024

For Good . For fun. 2024/11/23 中国 上海





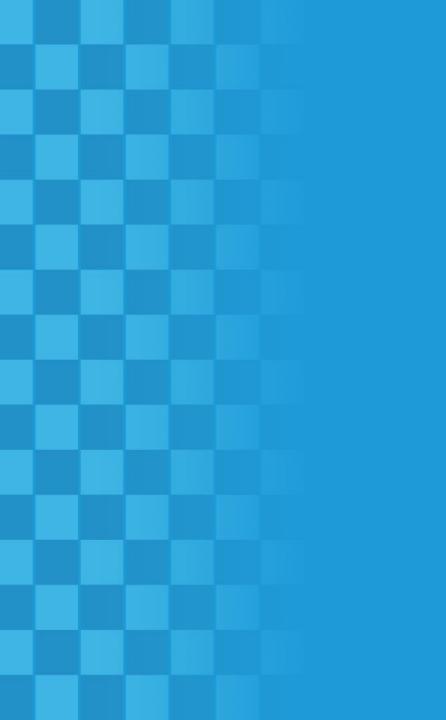
## PyCon China 2024

- >> 2024/11/23 上海
- >> For good . For fun.





残缺的 Type hint 设计与错漏百出的社区代码



幽默 TypedDict

```
T = TypedDict("T", {"a-0": int, "b": str})

t = T()

"__init___"的重载与提供的参数不匹配
参数类型:() Pylance(reportCallIssue)

Al Fix In Chat Ctrl+Shift+E

(type) T = T

查看问题 (Alt+F8) 快速修复... (Ctrl+.)
```

```
WSGIDefined = TypedDict(
    "WSGIDefined",
        "wsgi.version": Tuple[int, int], # e.g. (1, 0)
        "wsgi.url_scheme": str, # e.g. "http" or "https"
        "wsgi.input": InputStream,
        "wsgi.errors": ErrorStream,
        # This value should evaluate true if the application object may be simultaneously
        # invoked by another thread in the same process, and should evaluate false otherwise.
        "wsgi.multithread": bool,
        # This value should evaluate true if an equivalent application object may be
        # simultaneously invoked by another process, and should evaluate false otherwise.
        "wsgi.multiprocess": bool,
        # This value should evaluate true if the server or gateway expects (but does
        # not guarantee!) that the application will only be invoked this one time during
        # the life of its containing process. Normally, this will only be true for a
        # gateway based on CGI (or something similar).
        "wsgi.run once": bool,
   },
Aber, 11个月前 | 1 author (Aber)
class Environ(CGIRequiredDefined, CGIOptionalDefined, WSGIDefined):
    0.00
    WSGI Environ
```



描述不了的 partial

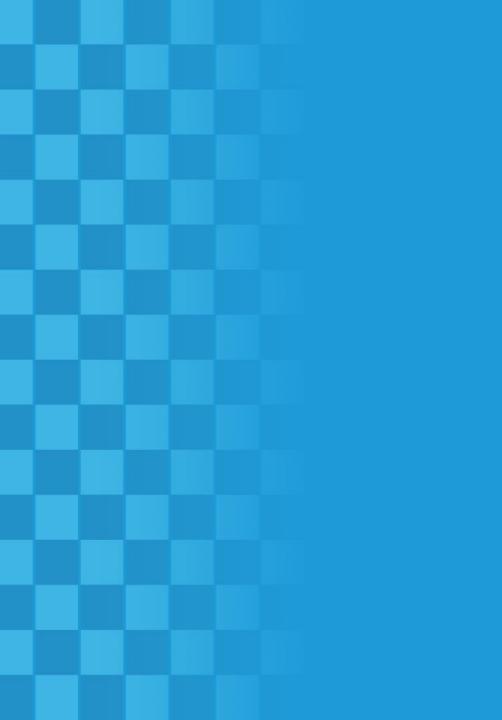
```
from cool import F

def add(x: int, y: int) -> int:
    return x + y

add_1 = F(add, 1)

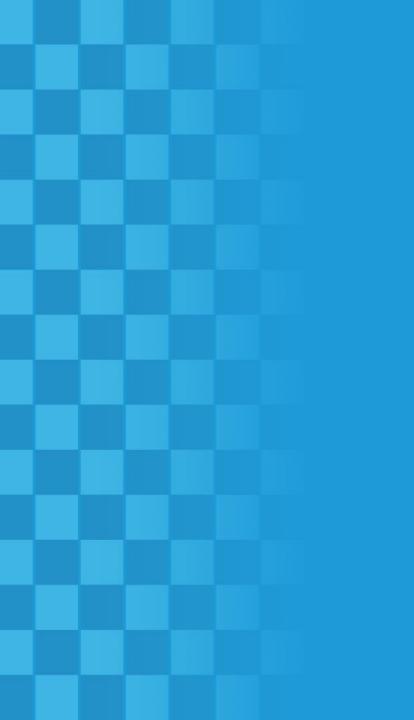
(variable) x: Unknown

x = add_1(2)
```



## FastAPI

```
102 ∨ def jsonable encoder(
           obj: Annotated[
103
               Any,
104
               Doc(
105
106
                   The input object to convert to JSON.
107
108
               ),
109
                                              Definition Search
110
           include: Annotated[
                                               fastapi/types.py
111
               Optional[IncEx],
112
                                             10 IncEx = Union[Set[int], Set[str], Dict[int,
113
               Doc(
114
                   Pydantic's `include` parameter, passed to Pydantic models to set the
115
                   fields to include.
116
117
                                                                          if include is not None and not isinstance(include, (set, dict)):
                                                             212
118
               ),
                                                                              include = set(include)
                                                             213
119
           ] = None,
                                                                          if exclude is not None and not isinstance(exclude, (set, dict)):
                                                             214
           exclude: Annotated[
120
                                                                              exclude = set(exclude)
                                                             215
               Optional[IncEx],
121
               Doc(
122
123
                   Pydantic's `exclude` parameter, passed to Pydantic models to set the
124
125
                   fields to exclude.
126
127
               ),
           ] = None,
128
```

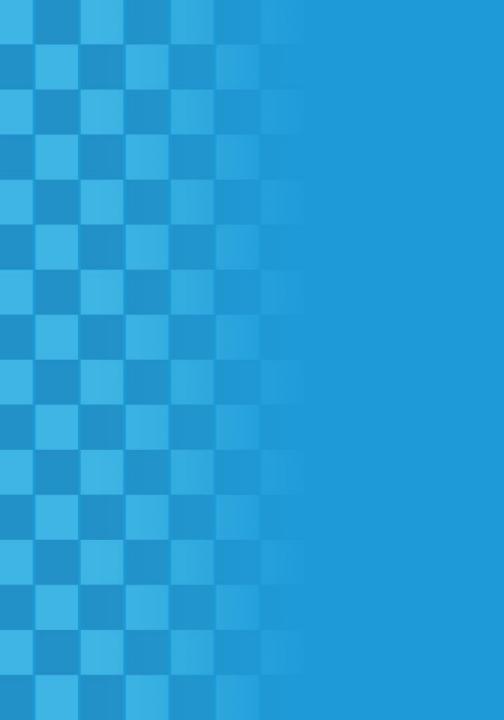


Beanie

```
from typing import Optional
                  类型表达式中不允许使用调用表达式 Pylance(reportInvalidTypeForm)
      import pymo
     from beanie Al Fix In Chat 企業E
      from pydant
                  (function) def Indexed(
                      typ: FixtureFunction[SimpleFixtureFunction@FixtureFunction,
     class Cated FactoryFixtureFunction@FixtureFunction] | None = None,
                      index_type: int = ASCENDING,
          name: s
                      **kwargs: FixtureFunction[SimpleFixtureFunction@FixtureFunction,
10
          descrip
                  FactoryFixtureFunction@FixtureFunction]
11
                  ) -> (IndexedAnnotation | type[NewType])
12
                                                                                        from typing import Optional
13
     class Produ If typ is defined, returns a subclass of typ with an extra attribute _indexe
14
         name: s tuple:
                                                                                        import pymongo
15
          descrip
                                                                                        from beanie import Document, Indexed
16
          price: Indexed(float, pymongo.DESCENDING)
                                                                                        from pydantic import BaseModel
17
          category: Category
18
19
          class Settings:
                                                                                        class Category(BaseModel):
20
             name = "products"
                                                                                            name: str
21
              indexes = [
                                                                                   10
                                                                                            description: str
22
                                                                                   11
23
                      ("name", pymongo.TEXT),
                                                                                   12
24
                      ("description", pymongo.TEXT),
                                                                                   13
                                                                                        class Product(Document): # This is the model
25
                 1,
                                                                                   14
                                                                                            name: str
26
                                                                                   15
                                                                                            description: Optional[str] = None
27
                                                                                   16
                                                                                            price: Index "FindMany[Product]"不可等待
28
                                                                                   17
                                                                                            category: Ca
29
     async def main() -> None:
                                                                                                           "FindMany[Product]"与协议"Awaitable[_T_co@Awaitable]"不兼容
                                                                                   18
          bar = await Product.find(Product.price > .5).inc({Product.price: 1})
                                                                                                              "__await__"不存在 Pylance(reportGeneralTypeIssues)
                                                                                   19
                                                                                            class Settin
       業L to chat, 業K to generate
31
                                                                                                           Al Fix In Chat 企業E
                                                                                   20
                                                                                                name =
                                                                                  21
                                                                                                indexes
                                                                                                          (method) def inc(
                                                                                   22
                                                                                                              expression: Dict[ExpressionField | float | int | str, Any],
                                                                                  23
                                                                                                             session: AsyncIOMotorClientSession | None = None,
                                                                                  24
                                                                                                             bulk_writer: BulkWriter | None = None,
                                                                                   25
                                                                                                    ],
                                                                                                              **kwargs: FixtureFunction[SimpleFixtureFunction@FixtureFunction,
                                                                                   26
                                                                                                         FactoryFixtureFunction@FixtureFunction]
                                                                                  27
                                                                                                         ) -> FindMany[Product]
                                                                                  28
                                                                                        async def main() Increment
                                                                                  29
                                                                                            bar = await Product.find(Product.price > .5).inc({Product.price: 1})
                                                                                  30
```

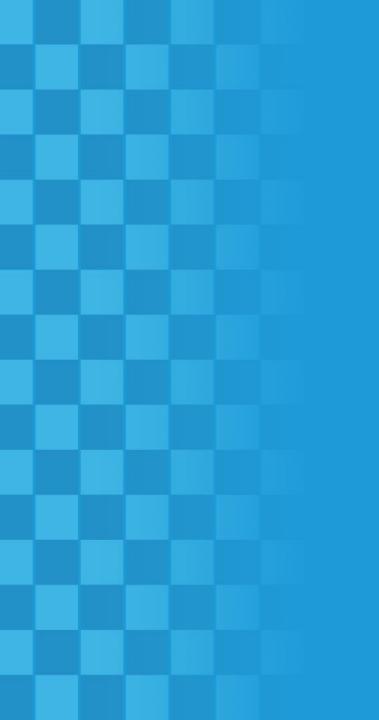
31

業L to chat, 業K to generate



## Redis

```
from redis import Redis
from redis.asyncio import Redis as AsyncRedis
async def async_main():
                                          from 未存取"v" Pylance
     r = AsyncRedis()
                                                                  t Redis as AsyncRedis
                                          from
                                                 Al Fix In Chat 企業E
    v = await r.get("key")
                                                (variable) v: Any
                                                                   > None:
                                          asyn
def sync_main():
                                                没有可用的快速修复
    r = Redis()
                                              v = await r.get("key")
    v = r.get("key")
                                                            1 from redis import Redis
                                          def sync_main() 2
                                                                 from redis.asyncio import Redis as AsyncRedis
                                    11
                                              r = Redis() 3
                                    12
                                              v = r.get("k 4
                                     13
                                           #L to chat, #K to 5
                                                                 async def async main() -> None:
                                                                       未存取"v" Pylance
                                                                        Al Fix In Chat 企業E
   KeyT = _StringLikeT # Main redis key space
   PatternT = _StringLikeT # Patterns matched against keys, field
  FieldT = EncodableT # Fields within hash tables, streams and
                                                                       (variable) v: ResponseT
                                                                 def
                                                           10
   KeysT = Union[KeyT, Iterable[KeyT]]
                                                                       没有可用的快速修复
   ResponseT = Union[Awaitable[Any], Any]
   ChannelT = _StringLikeT
                                                                     v = r.get("key")
                                                           12
   GroupT = _StringLikeT # Consumer group
                                                           13
                                                                   策L to chat, 策K to generate
  ConsumerT = _StringLikeT # Consumer name
  StreamIdT = Union[int, _StringLikeT]
  ScriptTextT = _StringLikeT
  TimeoutSecT = Union[int, float, _StringLikeT]
```



终