

# FastAPI

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# Краткий обзор основных возможностей

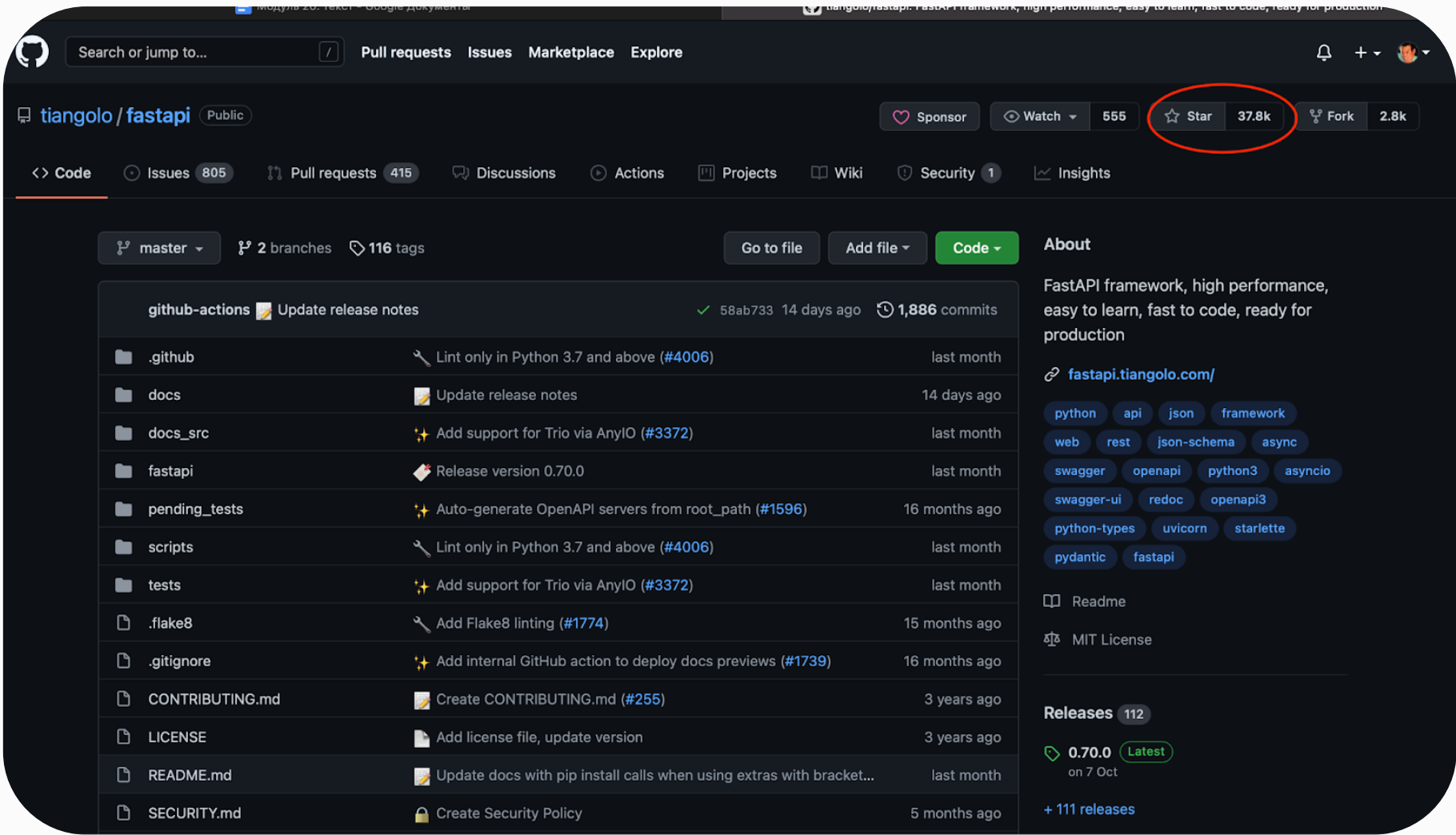
Краткий обзор основных возможностей

Устройство	Такты CPU	~ человеческий аналог
L1 cache	3	1 секунда
L2 cache	14	4,6 секунд
RAM	250	83 секунды
Disk	41 000 000	158 дней
Network	24 000 0000	2,5 лет

Краткий обзор основных возможностей

```
@app.get("/hello_async")
async def hello_async() -> Dict[str, str]:
    return {"message": "Hello World"}
```

# Краткий обзор основных возможностей

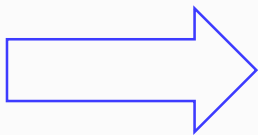


## Краткий обзор основных возможностей

```
class FastAPI(Starlette):
    def __init__(
        self,
        *,
        debug: bool = False,
        routes: Optional[List[BaseRoute]] = None,
        title: str = "FastAPI",
        description: str = "",
        version: str = "0.1.0",
        openapi_url: Optional[str] = "/openapi.json",
        openapi_tags: Optional[List[Dict[str, Any]]] = None,
        servers: Optional[List[Dict[str, Union[str, Any]]]] = None,
        dependencies: Optional[Sequence[Depends]] = None,
        default_response_class: Type[Response] = Default(JSONResponse),
        docs_url: Optional[str] = "/docs",
        redoc_url: Optional[str] = "/redoc",
        swagger_ui_oauth2_redirect_url: Optional[str] = "/docs/oauth2-redirect",
        swagger_ui_init_oauth: Optional[Dict[str, Any]] = None,
        middleware: Optional[Sequence[Middleware]] = None,
        exception_handlers: Optional[
            Dict[
                Union[int, Type[Exception]],
                Callable[[Request, Any], Coroutine[Any, Any, Response]],
            ]
        ] = None,
```

## Краткий обзор основных возможностей

```
@app.get('/books/', response_model=List[schemas.BookOut])
async def books() -> List[models.Book]:
    return await session.execute(select(models.Book))
```



default

GET /books/ Books

Parameters

No parameters

Responses

Code	Description
200	Successful Response

Media type:

Controls Accept header.

Example Value | Schema

```
[
  {
    "title": "string",
    "author": "string",
    "id": 0
  }
]
```