

مقدمة

لمسروع هو هذا

المناقشات:

وعملية الـ متقدمة

الـ

الـ

حذر أي بدون الـ حية البرامج

ممكـن. وقت أقرب في عـليـه الـ رد وـسيـتم الـ تـقـديـم يـرجـى سـؤـالـ، أـي لـديـكـ كـان إـذا الـ مـنـاقـشـاتـ، الـ تـبـادـلـ فـي وـسـهـلـاـ أـهـلـاـ

الـ

حـذـرـأـيـ بـدـونـ الـ حـيـةـ الـ بـرـامـجـ

الـ مجلـدـ. الـ فـيـ

الـ

على مـباـشرـةـ 2016.5.3.

الـ

الـ تقـنـيـ. الـ تقـاءـ 2016.4.23

صفـحةـ 62

الـ

الـ فـيـ دـيـوـ: مـفـيـدـةـ. وـأـدـوـاتـ وـالـ تـخـمـيـسـ، الـ وـحـدـوـيـةـ، الـ اـخـتـبـارـاتـ حـوـلـ، الـ عـلـىـ مـباـشرـةـ 2015.12.20.

صفـحةـ 40

ـ

Git 高级操作和原理

李智维

发布日期: 2016年5月3日

Git Objects

```
$ echo 'test content' | git hash-object -w --stdin  
d670460b4b4aece5915caf5c68d12f560a9fe3e4
```

```
$ find .git/objects -type f  
.git/objects/d6/70460b4b4aece5915caf5c68d12f560a9fe3e4
```

```
$ git cat-file -p d670460b4b4aece5915caf5c68d12f560a9fe3e4  
test content
```

- hash-object, 把数据保存到 .git 目录的命令
- -w, 写入对象, 否则只是返回 key
- –stdin, 从标准输入中读取
- d670..., 40个字符的 checksum
- cat-file, 查看 Git Object 的瑞士军刀

20160502 02

```
$ irb
> content = "what is up, doc?"
=> "what is up, doc?"

> header = "blob #{content.length}\0"
=> "blob 16\u0000"

> store = header + content
=> "blob 16\u0000what is up, doc?"

> require 'digest/sha1'
=> true

> sha1 = Digest::SHA1.hexdigest(store)
=> "bd9dbf5aae1a3862dd1526723246b20206e5fc37"

> require 'zlib'
=> true

> zlib_content = Zlib::Deflate.deflate(store)
=> "\x9CK\xCA\xC90R04c(\xC9F,0\xC8,V(-\xD0QH\xC90\xB6\ax\x00_
\x1C\ax\x9D"

> path = '.git/objects/' + sha1[0,2] + '/' + sha1[2,38]
=> ".git/objects/bd/9dbf5aae1a3862dd1526723246b20206e5fc37"

> FileUtils.mkdir_p(File.dirname(path))
=> [".git/objects/bd"]

> File.open(path, 'w') {|f| f.write zlib_content }
=> 32

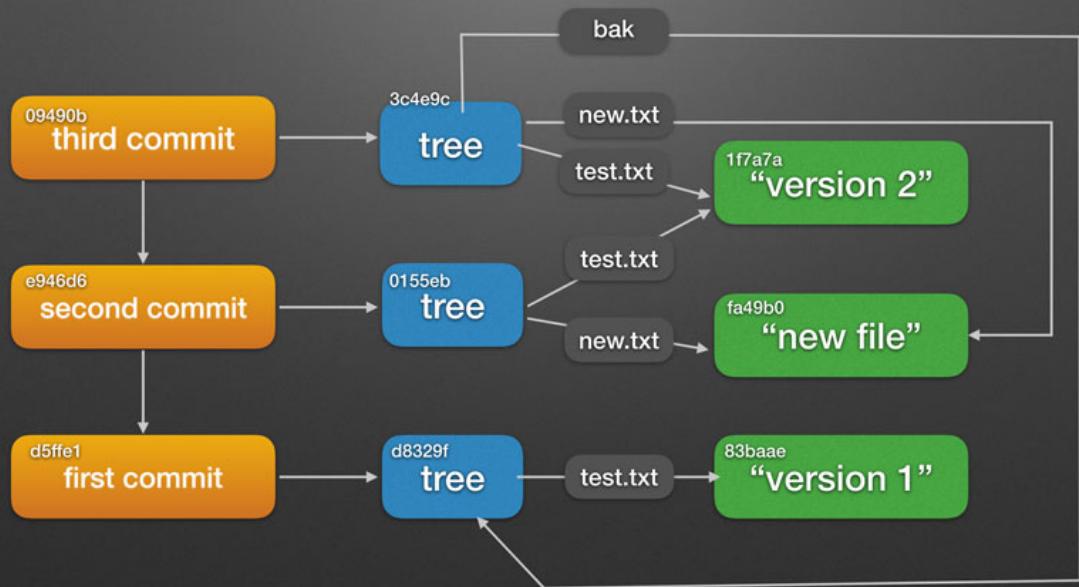
$ git cat-file -p bd9dbf5aae1a3862dd1526723246b20206e5fc37
what is up, doc?
```

用 ruby 演示 Git 对象的存储

- header 和具体内容一起构成最后的保存对象
- SHA1 得到 40 个字符, 前 2 个作为子目录, 后 38 个作为文件名
- zlib 压缩
- cat-file 检验是否保存成功
- blob 的内容可以为任意内容, 但 commit 和 tree 格式要求严格

2016-05-02 3:202016050232

内部对象



第4章：20160502 22

讲讲 WebSocket

李智维
2016.4.23

ەمەنەم 5: 20160423 12

ەمەنەم

عەملىيە بىشىرىتلىكىنەم لە ئەنۋەپەنەم مەدىر شەكرا رىان.، 87 نەھەنەن 3 تانغ أفووكىي، زو، لىيان شەكرا داخلىيە. الاختبار

内容

- WebSocket 当今的应用
- WebSocket 的历史由来
- iOS 平台如何使用 WebSocket
- 详解 WebSocket 协议
- iOS 平台如何实现 WebSocket 协议

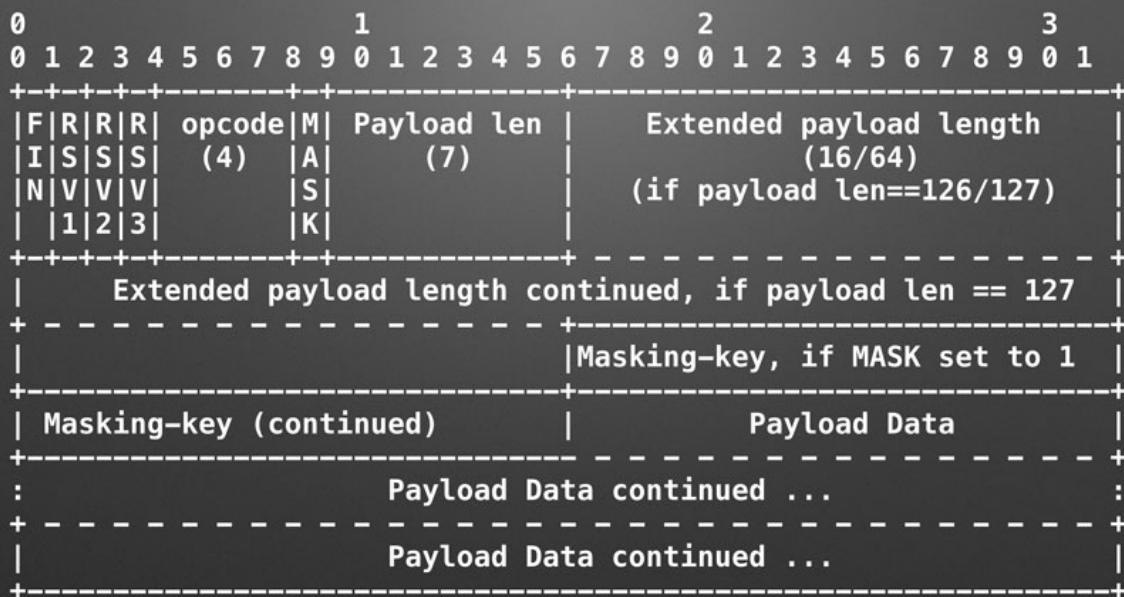
□□□□□ 6: □□20160423□22□

SRWebSocket

```
62 @interface SRWebSocket : NSObject <NSStreamDelegate>
63
64 - (id)initWithURL:(NSURL *)url;
65
66 // SRWebSockets are intended for one-time-use only. Open should be called once
67 // and only once.
67 - (void)open;
68
69 - (void)close;
70 - (void)closeWithCode:(NSInteger)code reason:(NSString *)reason;
71
72 // Send a UTF8 String or Data.
73 - (void)send:(id)data;
74
75 // Send Data (can be nil) in a ping message.
76 - (void)sendPing:(NSData *)data;
77
78 @end
```

2016-04-23 16:27

帧协议



二〇一六年八月二十三日四十二

帧协议

- Mask: 1位。如果值为 1, masking key 会出现在 masking-key 中。所有客户端往服务器发送的帧都必须设为1
- Payload length: 7位或(7+16)位或(7+64)位, 1)0-125, payload length
2)126, 则 16位整数代表的值为 length 2)127, 则64位整数为length
- Masking-key: 0 或 4 字节(32位)。如果 Mask 为 1, 则存在, 否则不存在。
- Payload data: (x+y)bytes, Extension Data + Application Data
- Extension data: x bytes, 必须满足握手阶段协商好的长度
- Application data: y bytes

2016-04-23 9:52

例子(1)

- A single-frame unmasked text message
0x81 0x05 0x48 0x65 0x6c 0x6c 0x6f (contains “Hello”)
- 0x 表示16进制
- 0x81, 也即 1000 0001, 对应表来分析。1 即 FIN, 表示这是一个完整的帧。0001 表示 Opcode, 为1, 表示 Text Frame, 这是一条文本消息
- 0x05, 即 0000 1001, 表示 5 , 也即长度为 5
- 0x48 对应 ASCII H, 0x65 照推
- 所以上面的数据意思是, 一条完整消息, 是文本, 长度为 5, 具体内容为 Hello

00000000 10: 0020160424020

Opcode

- %x0 : continuation frame
- %x1: text frame
- %x2: binary frame
- %x3-7: 保留给未来的非控制帧
- %x8: connection close
- %x9: ping
- %x10: pong
- %xB-F: 保留给未来的控制帧

```
51
52 typedef enum {
53     SR0pCodeTextFrame = 0x1,
54     SR0pCodeBinaryFrame = 0x2,
55     // 3-7 reserved.
56     SR0pCodeConnectionClose = 0x8,
57     SR0pCodePing = 0x9,
58     SR0pCodePong = 0xA,
59     // B-F reserved.
60 } SR0pCode;
```

长轮询



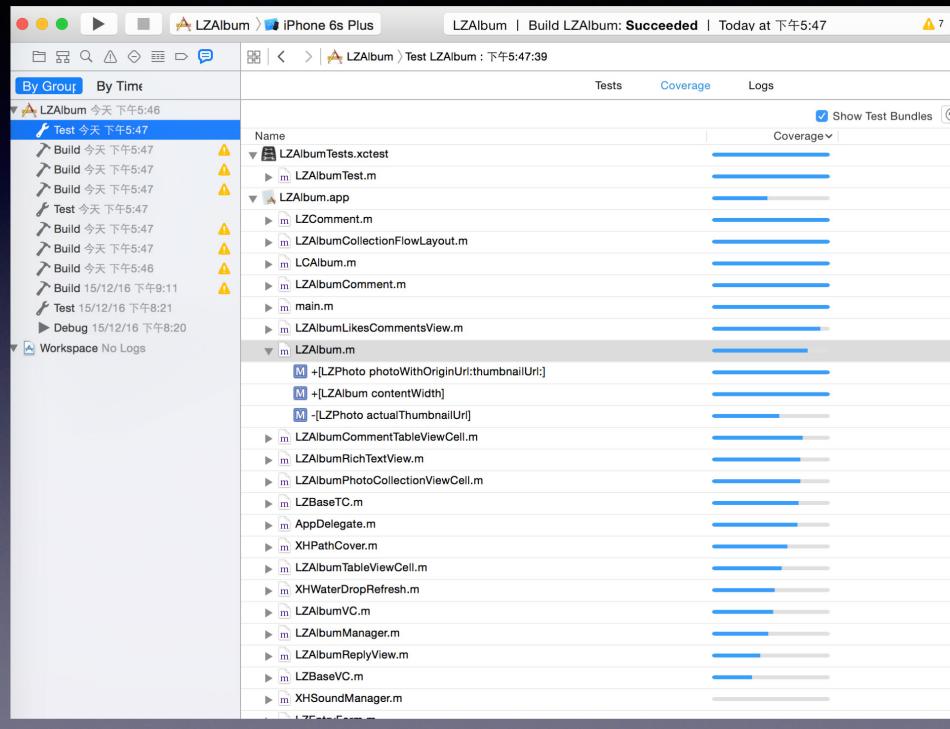
2016-04-23 12:00 [32]

资料

- WebSocket RFC : <https://tools.ietf.org/html/rfc6455>
- 知乎《WebSocket 是什么原理?》: <https://www.zhihu.com/question/20215561>
- SocketRocket: <https://github.com/square/SocketRocket>

□□□□□ 13: □□20160423□9 2□

覆盖率



14: 1

输入暗号触发测试

The screenshot shows a GitHub pull request titled "add auto test script #428" which has been closed. The pull request details indicate it was merged from `lzwjava:master` into `leancloud:master`. The conversation shows a comment from `lzwjava` stating "No description provided." Below the pull request, a commit titled "add auto test script" is shown, with the message "lbuild-me".

Below the pull request, there is a configuration interface for build triggering:

- Use github hooks for build triggering**: A checked checkbox.
- Trigger phrase**: A text input field containing the value "\Q!build-me\E".
- Only use trigger phrase for build triggering**: An unchecked checkbox.
- Close failed pull request automatically?**: An unchecked checkbox.

2015-10-15: 15:2

零碎的知识

- lipo 使用
- 清空所有的生成文件，Clean Build Folder
- Xcode 快捷键，根据当前文件展开左侧导航、Open Quickly、查看 Macro 预编译、.h 与 .m 文件跳转
- Pod 高级用法
- 如何制作 Framework
- Xcode Configurations
- Reveal In GitHub 插件
- Instrument 工具使用，定位代码

2020-07-16: 10:4

如何写单元测试

- 模块化代码，数据层和 UI 层分离
- 最少的测试代码达到最高的覆盖率
- 异步处理
- 框架选择
- 覆盖率

2020-07-17: 10:05