

Интерактивное сравнение в git-e

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Black Perl

2011

Обычное сравнение

Обычное сравнение



Unified diff format


```
--- a/lib/Mojo/IOLoop.pm
+++ b/lib/Mojo/IOLoop.pm
@@ -452,75 +477,26 @@
     delete $self->{_listening};
 }

-sub _accepting {
+sub _activity {
    my ($self, $id) = @_;

    # Connection
-   my $c = $self->{_cs}->{$id};
-
-   [...]
-
-   # Add socket to poll
-   $self->not_writing($id);
-}
+   return unless my $c = $self->{_cs}->{$id};

-sub _active {
-   my ($self, $id) = @_;
-   return $self->{_cs}->{$id}->{active} = time;
+   # Activity
+   return $c->{active} = time;
}
}
```

Недостатки unidiff-a

- ▶ Сложно читать сложные изменения

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Недостатки unidiff-a

- ▶ Сложно читать сложные изменения
- ▶ Нет возможности сразу вносить правки
- ▶ Далеко не все понимают его в принципе

Интерактивное сравнение

Интерактивное сравнение



Плечом к плечу

Редактирование здесь и сейчас



Интерактивное сравнение



Плечом к плечу



mercurial

Mercurial

extdiff

Mercurial

~/.hgrc

```
[extensions]
```

```
hgext.extdiff =
```

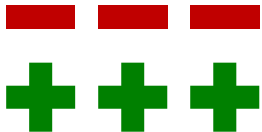
```
[extdiff]
```

```
cmd.idiff = winmerge
```

```
opts.idiff = -r
```

Mercurial

```
$ hg idiff
```



git

git

git-difftool

git

~/.gitconfig

```
[diff]
```

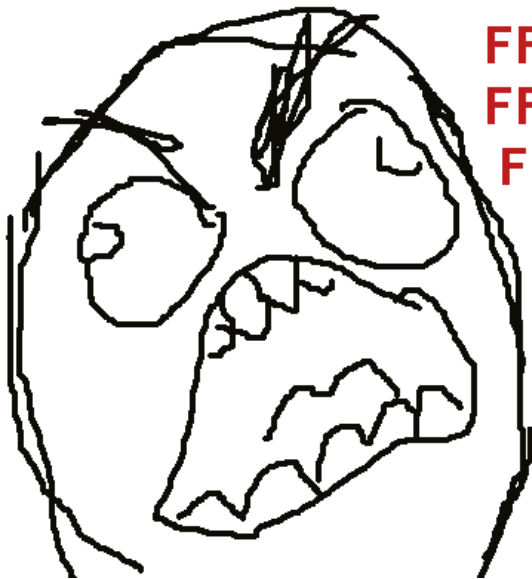
```
    tool = winmerge
```

```
[difftool "winmerge"]
```

```
    cmd = "winmerge -r \"$LOCAL\" \"$REMOTE\""
```

git

```
$ git difftool
```



FFFFFFFF

FFFFFFFF

FFFFFFF

FFFUU

UUUU

UUUU

UUUU

UUUU

UUUU-

git

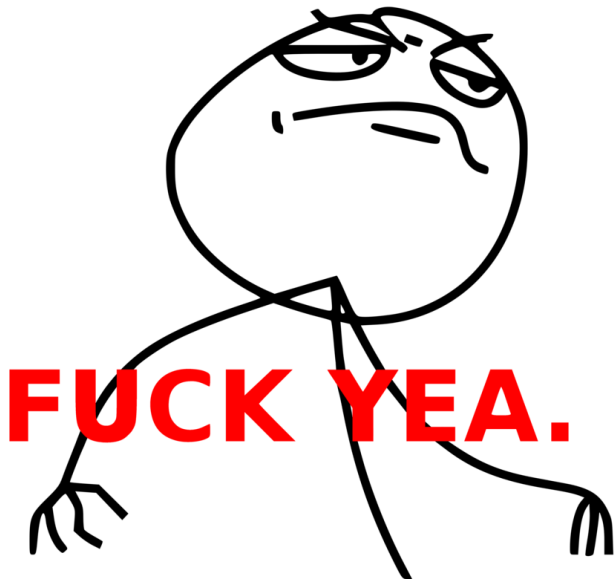
`$GIT_EXTERNAL_DIFF`

git

```
$GIT_EXTERNAL_DIFF path \  
    old-file old-hex old-mode \  
    new-file new-hex new-mode
```

git

git-idiff



git

```
mojo$ git-idiff 7b0d94^!
```

WinMerge

The screenshot shows the WinMerge application window titled "WinMerge - [a\ - b\]". The menu bar includes File, Edit, View, Merge, Tools, Plugins, Window, and Help. The toolbar contains various icons for file operations and merging. The address bar shows the current view is "a\ - b\".

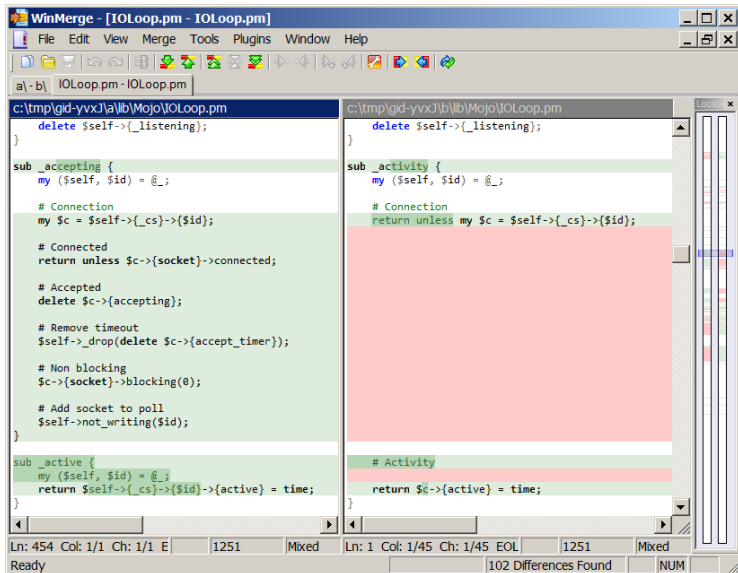
The main area displays a comparison of two folders:

- Left folder: c:\tmp\gid-yvxj\a\
- Right folder: c:\tmp\gid-yvxj\b\

Filename	Folder	Comparison result	Left Date	Right Date	Extension
IOLoop.pm	lib\Mojo	Text files are different	30.09.2011 21:13:13	30.09.2011 21:13:13	pm
ioloop.t	t\mojo	Text files are different	30.09.2011 21:13:13	30.09.2011 21:13:13	t

At the bottom of the window, the status bar indicates "0 items selected" and "Ready". The file type filter is set to "**". The current item is "Item 1 of 2" and the column header is "NUM".

WinMerge



Beyond Compare

The screenshot shows the Beyond Compare interface with two folders being compared: C:\tmp\gid-HZ8n\a and C:\tmp\gid-HZ8n\b. The interface includes a menu bar, a toolbar, and a main comparison pane with two columns of file details.

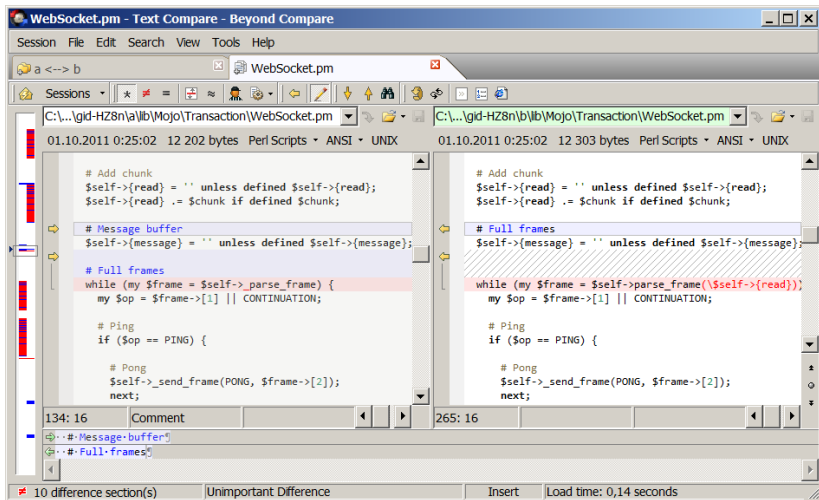
Name	Size	Modified	Name	Size	Modified
lib	12 202	01.10.2011 0:25:02	lib	12 303	01.10.2011 0:25:02
Mojo	12 202	01.10.2011 0:25:02	Mojo	12 303	01.10.2011 0:25:02
Transaction	12 202	01.10.2011 0:25:02	Transaction	12 303	01.10.2011 0:25:02
WebSocket.pm	12 202	01.10.2011 0:25:02	WebSocket.pm	12 303	01.10.2011 0:25:02
t	0	01.10.2011 0:25:02	t	1 798	01.10.2011 0:25:02
mojo	0	01.10.2011 0:25:02	mojo	1 798	01.10.2011 0:25:02
Changes	88 139	01.10.2011 0:25:02	Changes	88 247	01.10.2011 0:25:02

Log entries:

- 01.10.2011 0:25:13 Username: vostrik\Maxim Vuets
- 01.10.2011 0:25:13 Load comparison: <->
- 01.10.2011 0:25:19 Load comparison: C:\tmp\gid-HZ8n <-> C:\tmp\gid-HZ8n
- 01.10.2011 0:25:28 Load comparison: C:\tmp\gid-HZ8n\a <-> C:\tmp\gid-HZ8n\b

Summary: 2 file(s), 98 KB | 654 MB free on C: | 3 file(s), 99,9 KB | 654 MB free on C:

Beyond Compare



Araxis Merge

The screenshot displays the Araxis Merge interface. The title bar reads "C:\tmp\gid-HZ8n\a and C:\tmp\gid-HZ8n\b - Araxis Merge". The main window shows a comparison between two folders: "C:\tmp\gid-HZ8n\a" and "C:\tmp\gid-HZ8n\b".

Folder	Changes	Folder
lib		lib
Mojo		Mojo
Transaction		Transaction
WebSocket.pm	10	WebSocket.pm
t		t
mojo		mojo
Changes	1	Changes

The status bar at the bottom indicates: "The folder comparison is complete" and "0 removals · 1 insertion · 2 changes".

Araxis Merge

Text comparisons

New text comparison · Start or recompare · Stop

Comparison

Previous · Next · Save · Set encoding · Find

Changes

Current file

Editing

Merging

Swap panes

Actions

Toggle

Bookmarks

Layout

C:\tmp\gi...saction\WebSocket.pm and C:\tmp\gi...saction\WebSocket.pm - Araxis Merge

C:\tmp\gid-HZ8n\... \gid-HZ8n\ and C:\tmp\gid-HZ8n\b

C:\tmp\gid-HZ8n\...\Mojo\Transaction\WebSocket.pm

```
120 $self->_challenge($req_headers->sec_websocket_key))
121
122 return $self;
123 }
124
125 # "Being eaten by crocodile is just like going to sl...
126 # in a giant blender."
127 sub server_read {
128     my ($self, $chunk) = @_;
129
130     # Add chunk
131     $self->{read} = '' unless defined $self->{read};
132     $self->{read} .= $chunk if defined $chunk;
133
134     # Message buffer
135     $self->{message} = '' unless defined $self->{message}
136
137     # Full frames
138     while (my $frame = $self-> parse frame) {
139         my $op = $frame->[1] || CONTINUATION;
140
141         # Ping
142         if ($op == PING) {
143
```

C:\tmp\gid-HZ8n\...\Mojo\Transaction\WebSocket.pm

```
251 $res_headers->sec_websocket_protocol($1) if $1,
252 $res_headers->sec_websocket_accept(
253     $self->_challenge($req_headers->sec_websocket_key))
254
255 return $self;
256 }
257
258 sub server_read {
259     my ($self, $chunk) = @_;
260
261     # Add chunk
262     $self->{read} = '' unless defined $self->{read};
263     $self->{read} .= $chunk if defined $chunk;
264
265     # Full frames
266     $self->{message} = '' unless defined $self->{message}
267     while (my $frame = $self-> parse frame(\ $self->{read}
268         my $op = $frame->[1] || CONTINUATION;
269
270     # Ping
271     if ($op == PING) {
272
273     # Pong
274     $self-> send frame(PONG, $frame->[2]);
```

Default ANSI code page 4 removals · 4 insertions · 2 changes Ln 1 of 571 Col 1

gvim + DirDiff

```
# "Being eaten by crocodile is just like going to sleep.
# in a giant blender."
sub server_read {
    my ($self, $chunk) = @_;

    # Add chunk
    $self->{read} = '' unless defined $self->{read};
    $self->{read} .= $chunk if defined $chunk;

    # Message buffer
    $self->{message} = '' unless defined $self->{message};

    # Full frames
    while (my $frame = $self->parse_frame) {
        my $op = $frame->[1] || CONTINUATION;

        # Ping
        if ($op == PING) {

            # Pong
            $self->send_frame(PONG, $frame->[2]);
        }

        # Empty buffer
        my $write = $self->{write};
    }
}
```

```
sub server_read {
    my ($self, $chunk) = @_;

    # Add chunk
    $self->{read} = '' unless defined $self->{read};
    $self->{read} .= $chunk if defined $chunk;

    # Message buffer
    $self->{message} = '' unless defined $self->{message};

    # Full frames
    $self->{message} = '' unless defined $self->{message};
    while (my $frame = $self->parse_frame($self->{read})) {
        my $op = $frame->[1] || CONTINUATION;

        # Ping
        if ($op == PING) {

            # Pong
            $self->send_frame(PONG, $frame->[2]);
        }

        # Empty buffer
        my $write = $self->{write};
    }
}
```

<8n\a\lib\Mojo\Transaction\WebSocket.pm 145,1 24% <8n\b\lib\Mojo\Transaction\WebSocket.pm 274,1 50%

Files [A]\Changes and [B]\Changes differ
=> Files [A]\lib\Mojo\Transaction\WebSocket.pm and [B]\lib\Mojo\Transaction\WebSocket.pm differ
Only in [B]\t\mojo: websocket_frames.t

~
C:\tmp\VIA7CAB.tmp 8,1 Bot

<https://gist.github.com/228869>

Спасибо!

```
--- a/blackperl2011/interactive-git-diff.talk
+++ b/blackperl2011/interactive-git-diff.talk
@@ -1,1 +1,1 @@
-$self->talk();
+$self->shut_up();
```

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