

# QuakeCoRE SW Team Code Review

QuakeCoRE Software Team has introduced code review policy as an effort for quality assurance and encourage increased interactions amongst team members.

## Step-by-step guide

### 1. **Developer**: Create a branch -> Edit -> Add/Commit/Push to the branch

In the following, let's assume the developer "seb56" is making a small change to "git\_sim\_pkg" repository.

```
seb56@hypocentre /home/seb56/gm_sim_pkg :git checkout -b fix_hardcoded_python
Switched to a new branch 'fix_hardcoded_python'
```

<https://www.atlassian.com/git/tutorials/using-branches>

Suppose the developer edited the file "setup\_remote.sh". The developer does "git add" followed by "git commit".

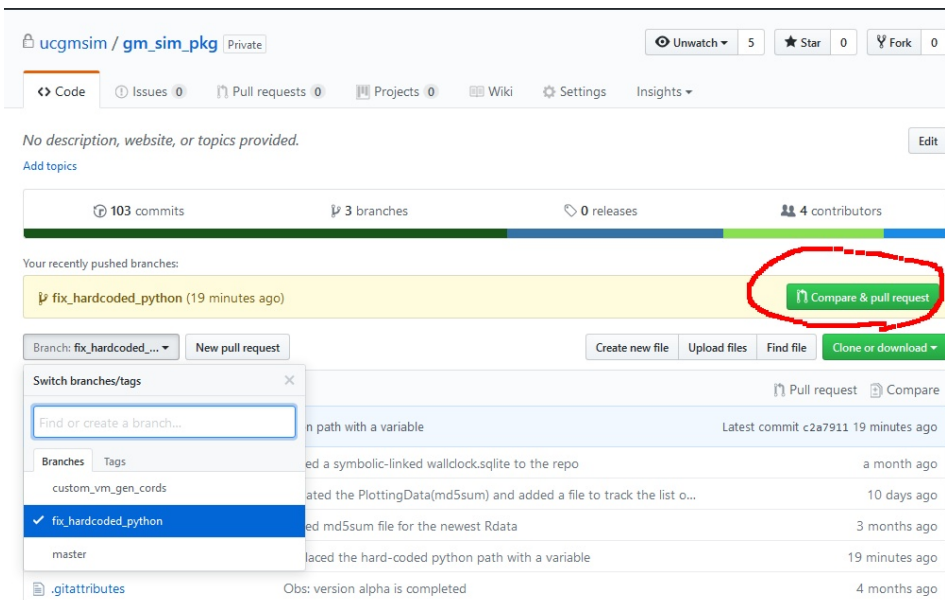
```
seb56@hypocentre /home/seb56/gm_sim_pkg/wrapper :git add setup_remote.sh
seb56@hypocentre /home/seb56/gm_sim_pkg/wrapper :git commit -m "Replaced the hard-coded python path with
a variable"
[fix_hardcoded_python c2a7911] Replaced the hard-coded python path with a variable
1 file changed, 2 insertions(+), 1 deletion(-)
```

When the developer feels the code is ready, he/she does "git push" to the new branch.

```
seb56@hypocentre /home/seb56/gm_sim_pkg/wrapper :git push origin fix_hardcoded_python
Counting objects: 4, done.
Delta compression using up to 32 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 410 bytes | 0 bytes/s, done.
Total 4 (delta 3), reused 0 (delta 0)
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To github.com:ucgmsim/gm_sim_pkg.git
 * [new branch]      fix_hardcoded_python -> fix_hardcoded_python
```

### 2. **Developer**: Make a pull request from GitHub. to a reviewer.

Go to Github, and notice the new branch that you created. Click **Compare & pull request**.



ucgmsim / gm\_sim\_pkg Private

Unwatch 5 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Settings Insights

No description, website, or topics provided. Edit

Add topics

103 commits 3 branches 0 releases 4 contributors

Your recently pushed branches:

fix\_hardcoded\_python (19 minutes ago) Compare & pull request

Branch: fix\_hardcoded\_python New pull request Create new file Upload files Find file Clone or download

Switch branches/tags

Find or create a branch...

Branches Tags

custom\_vm\_gen\_cords

fix\_hardcoded\_python

master

.gitattributes

Obs: version alpha is completed

Enter the description of the code change and specify the reviewer. In this example, "diagrama" is selected. The reviewer can be an expert or a team member who wishes to learn more about the code base.

Before clicking **Create pull request**, scroll down and have a good look at your code change. If you're happy, make a pull request.

## Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base: master ... compare: fix\_hardcoded\_python ✓ Able to merge. These branches can be automatically merged.

Replaced the hard-coded python path with a variable

Write Preview

AA B i " " < > ☰ ☷ ☹ ↶ @

As we will be migrating from Fitzroy to a new machine, hard-coded paths specific to Fitzroy should be replaced with a variable, preferably retrieved from external files or environment. This code change is just a poor example of half-done solution.

Attach files by dragging & dropping, selecting them, or pasting from the clipboard.

Styling with Markdown is supported

Create pull request

Reviewers

diagrama

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

1 commit 1 file changed 0 commit comments 1 contributor

Commits on Aug 10, 2017

sungeunbae Replaced the hard-coded python path with a variable c2a7911

Showing 1 changed file with 2 additions and 1 deletion.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

364

365

366

367

368

369

370

371

372

373

374

375

376

377

378

379

380

381

382

383

384

385

386

387

388

389

390

391

392

393

394

395

396

397

398

399

400

401

402

403

404

405

406

407

408

409

410

411

412

413

414

415

416

417

418

419

420

421

422

423

424

425

426

427

428

429

430

431

432

433

434

435

436

437

438

439

440

441

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

464

465

466

467

468

469

470

471

472

473

474

475

476

477

478

479

480

481

482

483

484

485

486

487

488

489

490

491

492

493

494

495

496

497

498

499

500

501

502

503

504

505

506

507

508

509

510

511

512

513

514

515

516

517

518

519

520

521

522

523

524

525

526

527

528

529

530

531

532

533

534

535

536

537

538

539

540

541

542

543

544

545

546

547

548

549

550

551

552

553

554

555

556

557

558

559

560

561

562

563

564

565

566

567

568

569

570

571

572

573

574

575

576

577

578

579

580

581

582

583

584

585

586

587

588

589

590

591

592

593

594

595

596

597

598

599

600

601

602

603

604

605

606

607

608

609

610

611

612

613

614

615

616

617

618

619

620

621

622

623

624

625

626

627

628

629

630

631

632

633

634

635

636

637

638

639

640

641

642

643

644

645

646

647

648

649

650

651

652

653

654

655

656

657

658

659

660

661

662

663

664

665

666

667

668

669

670

671

672

673

674

675

676

677

678

679

680

681

682

683

684

685

686

687

688

689

690

691

692

693

694

695

696

697

698

699

700

701

702

703

704

705

706

707

708

709

710

711

712

713

714

715

716

717

718

719

720

721

722

723

724

725

726

727

728

729

730

731

732

733

734

735

736

737

738

739

740

741

742

743

744

745

746

747

748

749

750

751

752

753

754

755

756

757

758

759

760

761

762

763

764

765

766

767

768

769

770

771

772

773

774

775

776

777

778

779

780

781

782

783

784

785

786

787

788

789

790

791

792

793

794

795

796

797

798

799

800

801

802

803

804

805

806

807

808

809

810

811

812

813

814

815

816

817

818

819

820

821

822

823

824

825

826

827

828

829

830

831

832

833

834

835

836

837

838

839

840

841

842

843

844

845

846

847

848

849

850

851

852

853

854

855

856

857

858

859

860

861

862

863

864

865

866

867

868

869

870

871

872

873

874

875

876

877

878

879

880

881

882

883

884

885

886

887

888

889

890

891

892

893

894

895

896

897

898

899

900

901

902

903

904

905

906

907

908

909

910

911

912

913

914

915

916

917

918

919

920

921

922

923

924

925

926

927

928

929

930

931

932

933

934

935

936

937

938

939

940

941

942

943

944

945

946

947

948

949

950

951

952

953

954

955

956

957

958

959

960

961

962

963

964

965

966

967

968

969

970

971

972

973

974

975

976

977

978

979

980

981

982

983

984

985

986

987

988

989

990

991

992

993

994

995

996

997

998

999

1000

When the request has been successfully made, the developer will be presented a new page from **Pull requests** tab.

ucgmsim / gm\_sim\_pkg Private

Unwatch 5 Star 0 Fork 0

< Code 0 Issues 0 Pull requests 1 Projects 0 Wiki Settings Insights

Replaced the hard-coded python path with a variable #3

Edit

Open

sungeunbae wants to merge 1 commit into master from fix\_hardcoded\_python

Conversation 0 Commits 1 Files changed 1 +2 -1

sungeunbae commented just now

As we will be migrating from Fitzroy to a new machine, hard-coded paths specific to Fitzroy should be replaced with a variable, preferably retrieved from external files or environment. This code change is just a poor example of half-done solution.

Replaced the hard-coded python path with a variable c2a7911

sungeunbae requested a review from diagrama just now

Add more commits by pushing to the fix\_hardcoded\_python branch on ucgmsim/gm\_sim\_pkg.

Review requested

Review has been requested on this pull request. It is not required to merge. [Learn more.](#)

This branch has no conflicts with the base branch

Merging can be performed automatically.

Reviewers

diagrama

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

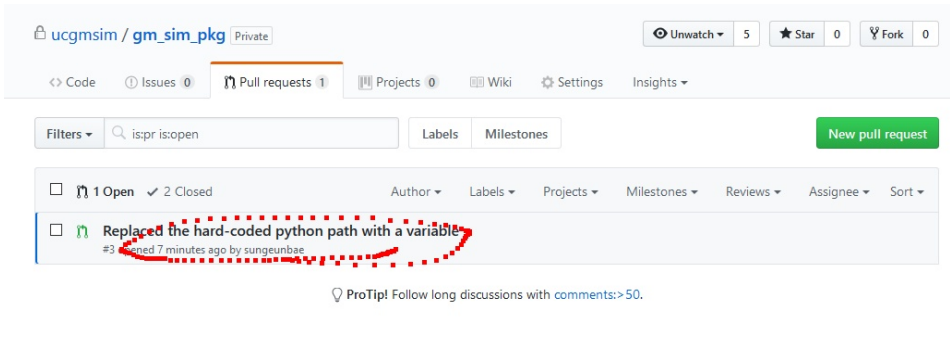
No milestone

Notifications

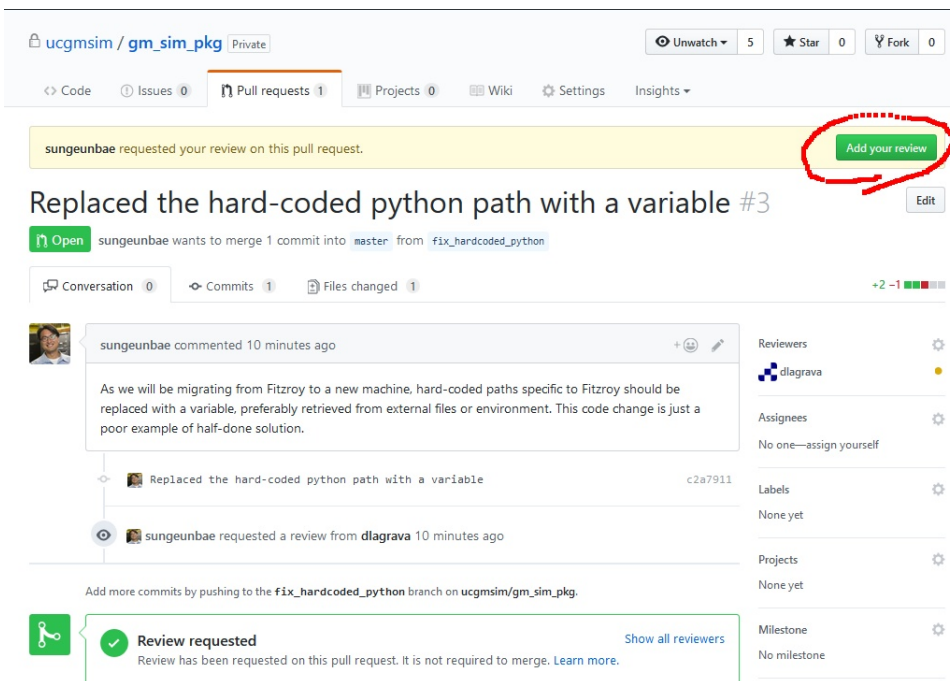
Unsubscribe

3. **Reviewer** : Reviewer has 3 options : He/she can make comments, approve the change or make a change request.

The reviewer receives an email requesting the review. "diagrava" visits the pull request page and clicks the link to start the review.



Click **Add your review**



The reviewer can click **Review changes** to comment/approve or request changes.

## Replaced the hard-coded python path with a variable #3

Edit

Open sungeunbae wants to merge 1 commit into master from fix\_hardcoded\_python

Conversation 0

Commits 1

Files changed 1

Changes from all commits ▾ Jump to... ▾ +2 -1

Unified Split

Review changes ▾

3 wrapper/setup\_remote.sh

@@ -6,6 +6,7 @@ if [ "\$#" -ne 1 ]; then

6 6 #fi

7 7

8 8 remote\_user=\$1

9 9 +remote\_python=/opt/niwa/Python/AIX/2.7.5/bin/python

10 10

11 11 cfg=\$(find\_config.sh)

12 12 echo \$cfg

@@ -55,4 +56,4 @@ cmd="scp \$cfg \$remote\_user@fitzroy.nesi.org.nz:\$r

55 56

56 57 \$cmd

57 58

58 58 -ssh \$remote\_user@fitzroy.nesi.org.nz "/opt/niwa/Python/AIX/2.7.5/b

59 59 +ssh \$remote\_user@fitzroy.nesi.org.nz "\$remote\_python /nesi/projects/nesi00213/workflow/devel/install.py \$remote\_cfg"

Submit your review

Review summary

Leave a comment

☒ Comment

Submit general feedback without explicit approval.

☐ Approve

Submit feedback and approve merging these changes.

☐ Request changes

Submit feedback that must be addressed before merging.

Submit review

If the reviewer wishes to make a specific comment for a certain line of code, click + in the beginning of the line and leave a comment and click **Add single comment**, this will immediately send an email to the developer.

58 -ssh \$remote\_user@fitzroy.nesi.org.nz "/opt/niwa/Python/AIX/2.7.5/bin/python /nesi/projects/nesi00213/workflow/devel/install

59 +ssh \$remote\_user@fitzroy.nesi.org.nz "\$remote\_python /nesi/projects/nesi00213/workflow/devel/install.py \$remote\_cfg"

Write Preview

AA B i “ < > ↩ ↪ @

Why do you leave the hard-coded "fitzroy.nesi.org.nz". Don't you think it has to be a variable?

Attach files by dragging & dropping, selecting them, or pasting from the clipboard.

Styling with Markdown is supported

Cancel Add single comment Start a review



Alternatively, if the reviewer wishes to make multiple comments, he/she may click **Start a review**, which will place the comment in "Pending" state, and after all comments have been made, the reviewer can click **Finish your review** to send the whole collection of comments in a single email.

58 +ssh \$remote\_user@fitzroy.nesi.org.nz "/opt/niwa/Python/AIX/2.7.5/bin/python /nesi/projects/nesi00213/workflow/devel/install

59 +ssh \$remote\_user@fitzroy.nesi.org.nz "\$remote\_python /nesi/projects/nesi00213/workflow/devel/install.py \$remote\_cfg"

diagrama Pending

Why do you leave the hard-coded "fitzroy.nesi.org.nz". Don't you think it has to be a variable?

Reply...

Start a new conversation

Finish your review

The reviewer can finalize the review by clicking **Submit review** with 3 options - **Comment**, **Approve** and **Request changes**.

Unified
Split
Review changes

Submit your review

Review summary

I think you should create a variable for "fitzroy.nesi.org.nz".

☐ Comment  
Submit general feedback without explicit approval.

☐ Approve  
Submit feedback and approve merging these changes.

☒ Request changes  
Submit feedback that must be addressed before merging.

Submit review

ts/nesi00213/workflow/dev1/install.py \$remote\_cfg"

#### 4. Developer. Revision of the code.

If the reviewer selects **Request change**, the developer will receive an email with a link that takes to this page.

The developer may disagree, but let's assume he/she agreed to make a necessary code change.

dlagrava reviewed 11 minutes ago
View changes

```

wrapper/setup_remote.sh
... @@ -55,4 +56,4 @@ cmd="scp $cfg $remote_user@fitzroy.nesi.org.nz:$remote_cfg"
55 56 echo $cmd
56 57 $cmd
57 58
58 -ssh $remote_user@fitzroy.nesi.org.nz "/opt/niwa/Python/AIX/2.7.5/bin/python /
59 +ssh $remote_user@fitzroy.nesi.org.nz "$remote_python /nesi/projects/nesi00213

```

dlagrava 11 minutes ago
Why do you leave the hard-coded "fitzroy.nesi.org.nz". Don't you think it has to be a variable?

Reply...

dlagrava requested changes 28 seconds ago
View changes

I think you should create a variable for "fitzroy.nesi.org.nz".

Add more commits by pushing to the **fix\_hardcoded\_python** branch on **ucgmsim/gm\_sim\_pkg**.

Changes requested
Hide all reviewers
1 review requesting changes [Learn more](#).

dlagrava requested changes
See review Dismiss review

The developer edit the code, and does git add/commit/push.

It is also recommended to respond to the reviewer comment.

```
59 +ssh $remote_user@fitzroy.nesi.org.nz \"$remote_python /nesi/projects/nesi00213/workflow/devel/install.py $remote_cfg\"
```

dlaqrava 16 hours ago

Why do you leave the hard-coded "fitzroy.nesi.org.nz". Don't you think it has to be a variable?

Write Preview

Agreed. Done that in the latest commit.

Attach files by dragging & dropping, selecting them, or pasting from the clipboard.

Styling with Markdown is supported

Cancel Add single comment Start a review

**Start a review** and **Submit review** to finalize your comment and notify the reviewer.

Unified Split Review changes 1

Submit your 1 pending comment

Review summary

Added remote\_host as requested.

☒ Comment  
Submit general feedback without explicit approval.

☐ Approve  
Submit feedback and approve merging these changes.

☐ Request changes  
Submit feedback that must be addressed before merging.

Cancel review Submit review

```
6 fi
7
8 remote_user=$1
9 +remote_python=/opt/niwa/Python/AIX/2.7.5/bin/
10 +remote_host=fitzroy.nesi.org.nz
11 cfg=$(find_config.sh)
12 echo $cfg
13 if [ ! -f "$cfg" ]; then
14
15
16
17
18
19
20
21
22
23
24
25
26 echo $cmd
27 $cmd
28
29 +ssh $remote_user@$remote_host "$remote_python /nesi/projects/nesi00213/workflow/devel/install.py $remote_cfg"
```

##### 5. **Reviewer:** Second review.

Reviewer receives an email with a link that takes to the page showing **New changes since you last viewed**.

dlaqrava requested changes 16 hours ago

View changes

I think you should create a variable for "fitzroy.nesi.org.nz".

New changes since you last viewed

View changes

Replaced hard-coded fitzroy address with a variable 84ef6a7

Click + or **View changes** to inspect. If everything looks ok, Click **Review changes** and **Approve**.



## Replaced the hard-coded python path with a variable #3

Edit

Open sungeunbae wants to merge 2 commits into master from fix\_hardcoded\_python

Conversation 4 Commits 2 Files changed 1

Changes from 1 commit Jump to... +2 -2 Viewing a subset of changes. View all Unified Split Review changes

```
4 wrapper/setup_remote.sh
@@ -7,7 +7,7 @@ fi
7 7
8 8 remote_user=$1
9 9 remote_python=/opt/niwa/Python/AIX/2.7.5/bin/python
10 -
11 +remote_host=fitzroy.nesi.org.nz
12 cfg="find_config.sh"
13 echo $cfg
14 if [ ! -f "$cfg" ]; then
15 @@ -56,4 +56,4 @@ cmd="scp $cfg $remote_user@fitzroy.nesi.org.nz:$remote_host"
56 56 echo $cmd
57 57 $cmd
58 58
59 -ssh $remote_user@fitzroy.nesi.org.nz "$remote_python /nesi/projects/nesi00213/workflow/devel/install.py $remote_cfg"
60 +ssh $remote_user@$remote_host "$remote_python /nesi/projects/nesi00213/workflow/devel/install.py $remote_cfg"
```

Submit your review

Review summary

Leave a comment

☐ Comment  
Submit general feedback without explicit approval.

☒ **Approve**  
Submit feedback and approve merging these changes.

☐ Request changes  
Submit feedback that must be addressed before merging.

Submit review

### 6. Admin (Reviewer): Merge the pull request

The repository admin (most of the time, the reviewer will function as the admin) will **Merge the pull request**.

sungeunbae reviewed 23 minutes ago [View changes](#)

Added remote\_host as requested.

wrapper/setup\_remote.sh [Show outdated](#)

dlgrava approved these changes just now [View changes](#)

Add more commits by pushing to the fix\_hardcoded\_python branch on ucgmsim/gm\_sim\_pkg.

**Changes approved** [Show all reviewers](#)  
1 approved review [Learn more](#).

**This branch has no conflicts with the base branch**  
Merging can be performed automatically.

**Merge pull request** You can also open this in [GitHub Desktop](#) or view [command line instructions](#).

It is also recommended for the admin to **Delete branch** to keep the repository tidy.

dlgrava approved these changes 6 minutes ago [View changes](#)

dlgrava merged commit ad64bb7 into master just now [Revert](#)

**Pull request successfully merged and closed**  
You're all set—the fix\_hardcoded\_python branch can be safely deleted.

[Delete branch](#)

## 7. Developer: Delete the local branch

Even if the admin deletes the branch, the developer's own copy of code still has the branch and worse still, the developer may be on the branch.

Check which branch is being used.

```
seb56@hypocentre /home/seb56/gm_sim_pkg :git branch
* fix_hardcoded_python
master
```

Switch to master branch.

```
seb56@hypocentre /home/seb56/gm_sim_pkg :git checkout master
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.
```

### I. Delete first

Delete the branch

```
seb56@hypocentre /home/seb56/gm_sim_pkg :git branch -D fix_hardcoded_python
Deleted branch fix_hardcoded_python (was 84ef6a7).
```

At this point, your local "master" will be behind the origin "master" which has merged the pull request. Get the latest copy of origin master.

```
seb56@hypocentre /home/seb56/gm_sim_pkg :git pull
remote: Counting objects: 1, done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (1/1), done.
From github.com:ucgmsim/gm_sim_pkg
   157b335..ad64bb7  master    -> origin/master
Updating 157b335..ad64bb7
Fast-forward
 wrapper/setup_remote.sh | 5 +++--
 1 file changed, 3 insertions(+), 2 deletions(-)
```

### II. Pull first

```
seb56@hypocentre /home/seb56/gm_sim_pkg :git pull
remote: Counting objects: 1, done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (1/1), done.
From github.com:ucgmsim/gm_sim_pkg
   157b335..ad64bb7  master    -> origin/master
Updating 157b335..ad64bb7
Fast-forward
 wrapper/setup_remote.sh | 5 +++--
 1 file changed, 3 insertions(+), 2 deletions(-)
```

Delete the branch. Note the "-d" switch instead of "-D".

```
seb56@hypocentre /home/seb56/gm_sim_pkg :git branch -d fix_hardcoded_python
Deleted branch fix_hardcoded_python (was 84ef6a7)
```



## Related articles

- [QuakeCoRE SW Team Code Review](#)

<https://help.github.com/articles/about-pull-requests/>

<https://help.github.com/articles/merging-a-pull-request/>