

git: Rebasing is fun

<https://github.com/ricardogama/git-rebasing-is-fun>

Ricardo Gama
Backend developer
@ Mobgen

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@ United Wardrobe

What's rebasing anyway?

- Merge
 - A merge performs a three-way merge between the two latest branch snapshots and the most recent common ancestor of the two, creating a new snapshot (and commit).*
- Rebase
 - With the rebase command, you can take all the changes that were committed on one branch and replay them on another one.*

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| * | bfa9d7f - Fix the rejecting of orders (system or operator) (11 months ago) <Randolph Verschoor>
| | \
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| | * 7d5bf2e - Fix the rejecting of orders (system or operator) (11 months ago) <Randolph Verschoor>
| | * 4892cd3 - Change version back to 1.0.0 after test was successful (11 months ago) <Randolph Verschoor>
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| | * 3ffd58b - KML download endpoints added (11 months ago) <Randolph Verschoor>
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| | * bd5fb4a - Merge branch 'develop' of bitbucket.org:vettel_proj/vettel-service-api into develop (11 months ago) <Paulo Ferreira>
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| | * 27e5834 - Added permission for champions to access customer by id for customers ids in the assigned order (11 months ago) <Paulo Ferreira>
| | * bb9c9c6 - Added active order check on api as the first check being done. (11 months ago) <Paulo Ferreira>
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| | * 2dd9e7a - validate reset token (11 months ago) <Randolph Verschoor>
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| | * a9c8fdbd - Make the ADR report use refueled_at date (11 months ago) <Randolph Verschoor>
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| | * d8acaa6 - Get vehicleId directly from the response (11 months ago) <Randolph Verschoor>
| | * 56fd466 - Making sure the refuel amount is dividing the champ volume by a 1000 (11 months ago) <Randolph Verschoor>
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* 7765be1 - (HEAD -> VET-2587-fix-error-id-regressions, origin/VET-2587-fix-error-id-regressions) [VET-2587] Fix error cod
* eadcd1b - [VET-2587] Remove anonymous inner struct from RequestOrderB2CustomerBody (2 days ago) <Ricardo Gama>
* b8a9949 - [VET-2587] Add missing business mocks (2 days ago) <Ricardo Gama>
* 264cd27 - (origin/master, origin/HEAD, master) Merged in VET-2587-fix-authorizing-with-refresh-token (pull request #43)
| \
| * f4debcc - [VET-2587] Add AuthorizationGrantWithPassword function to auth business (2 days ago) <Ricardo Gama>
| /
| * 8a540e5 - Merged in VET-2458-wetstock-tresholds (pull request #40) (2 days ago) <Randolph Verschoor>
| \
| * b313f67 - [VET-2458] Add update vehicleload threshold endpoint (10 days ago) <Randolph Verschoor>
| /
| * 1f587bf - Merged in VET-2524-add-unit-tests (pull request #37) (3 weeks ago) <Ricardo Gama>
| \
| * c06cac3 - Add tests to app business package (3 weeks ago) <Ricardo Gama>
| * 534c54f - Add mocks script (3 weeks ago) <Ricardo Gama>
| * f7b2cc6 - Update service versions (3 weeks ago) <Ricardo Gama>
| /
| * 68d8c52 - Merged in VET-2524-add-missing-business-methods (pull request #36) (3 weeks ago) <Ricardo Gama>
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| * f7ab709 - Remove service clients calls from controller packages (3 weeks ago) <Ricardo Gama>
| * 8570a0c - Add missing methods to business packages (3 weeks ago) <Ricardo Gama>
| /
| * 796b118 - Merged in VET-2524-refactor-rating-business-package-to-export-interfaces (pull request #35) (3 weeks ago) <Ricardo Gama>
| \
| * a96b978 - Refactor controllers to use rating business interface (3 weeks ago) <Ricardo Gama>
| * f5cdda9 - Refactor rating business package to export interfaces (3 weeks ago) <Ricardo Gama>
| /
| * d851711 - Merged in VET-2524-refactor-promotion-business-package-to-export-interfaces (pull request #34) (3 weeks ago) <Ricardo Gama>
| \
| * 62a2f20 - Refactor controllers to use promotion business interface (3 weeks ago) <Ricardo Gama>
| * b8151e3 - Refactor promotion business package to export interfaces (3 weeks ago) <Ricardo Gama>
| /
| * beb65ac - Merged in VET-2524-refactor-price-business-package-to-export-interfaces (pull request #33) (3 weeks ago) <Ricardo Gama>
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| * 4834c14 - Refactor controllers to use price business interface (3 weeks ago) <Ricardo Gama>
| * 5a6f17a - Refactor price business package to export interfaces (3 weeks ago) <Ricardo Gama>
| /
| * 9ffafa13 - Merged in VET-2524-refactor-payment-business-package-to-export-interfaces (pull request #32) (3 weeks ago) <Ricardo Gama>
| \
| * 6e47385 - Refactor controllers to use payment business interface (3 weeks ago) <Ricardo Gama>
| * 6ad8d24 - Refactor payment business package to export interfaces (3 weeks ago) <Ricardo Gama>
| /
| * 1829117 - Merged in VET-2524-refactor-dispatcher-business-package-to-export-interfaces (pull request #31) (3 weeks ago) <Ricardo Gama>
| \
| * 79799e2 - Refactor controllers to use dispatcher business interface (3 weeks ago) <Ricardo Gama>
| * 4e0c92f - Refactor dispatcher business package to export interfaces (3 weeks ago) <Ricardo Gama>
| /
| * b74760d - Merged in VET-2524-refactor-customer-business-package-to-export-interfaces (pull request #30) (3 weeks ago) <Ricardo Gama>
| \
| * d78b46f - Refactor controllers to use customer business interface (4 weeks ago) <Ricardo Gama>
| * e7f1157 - Remove customer business dependencies from other business packages (4 weeks ago) <Ricardo Gama>
| * 9c6170d - Refactor customer business package to export interfaces (4 weeks ago) <Ricardo Gama>
| /
| * 1f569c4 - Merged in VET-2524-refactor-b2b-customer-business-package-to-export-interfaces (pull request #29) (4 weeks ago) <Ricardo Gama>
| \
| * a176879 - Refactor controllers to use b2b customer business interface (4 weeks ago) <Ricardo Gama>
| * 3878dbb - Refactor B2B customer business package to export interfaces (4 weeks ago) <Ricardo Gama>
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```

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- Code should be readable, so its history.

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- Assuming we all follow git flow, the history we will keep is the branch history **when merging**.
 - The branch history is not that important until it's merged;
 - The branch history should be documented on Pull Requests instead;
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- Why the hell should conflict resolution be part of your code history?

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 - The branch history should **always** look like a greenfield to the target branch;
- Why the hell should conflict resolution be part of your code history?
- Why should you deal with conflicts that you did not provoke?

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- Who should ensure a branch is rebased on merging?
- Know your branch history, specially where it starts.
- Conflicts will haunt you. More. Forever.

Demo time!

check .gitconfig for all aliases

git st	git status
git lg	git log --graph
git cob	git checkout -b
git co	git checkout
git com	git checkout master
git ba	git branch -a
git amend	git commit --amend
git ri	git rebase -interactive -autosquash
git fixup	git commit -m "fixup! \$(git log -1 --format=\"%s\" \$@)"
git bd	git branch -d
git cu	git add -u && git commit

Wrap up, trips and ticks

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- Yes, this was a trap. Rebasing is not fun.
- Care for your tree. Rebasing allows you to only keep history that matters, always nice and clean.
- Care for your commits. One commit per file. Name them properly.
- git came to stay, master it.
- develop branch, do you really need it?

Thanks, and farewell!

@ricardogama left to #soundgarden