Item 295
git_comments:

git_commits:

1. **summary:** [MXNET-1209] Tutorial transpose reshape (#13208)
   message: [MXNET-1209] Tutorial transpose reshape (#13208) * transpose tutorial * Adding Anirudhs comments * Update tutorial with some more examples * Adding links * Fixing the links, adding more examples * Update reshape_transpose.md * Fixing spelling mistakes * Updating image resolution * Adding Simon's comments * Small fixes * Update reshape_transpose.md * Update reshape_transpose.md * empty commit * empty commit

github_issues:

github_issues_comments:

github_pulls:

1. **title:** [MXNET-1209] Tutorial transpose reshape
   body: ## Description ## Adding a tutorial that explains the difference between reshape and transpose operators @ThomasDelteil @Ishitori can you please have a look? Thanks! http://mxnet-ci-doc.s3-accelerate.dualstack.amazonaws.com/PR-13208/3/tutorials/basic/reshape_transpose.html ## Checklist ## ### Essentials ### Please feel free to remove inapplicable items for your PR. - [x] The PR title starts with [MXNET-$JIRA_ID], where $JIRA_ID refers to the relevant [JIRA issue] (https://issues.apache.org/jira/projects/MXNET/issues) created (except PRs with tiny changes) - [x] Changes are complete (i.e. I finished coding on this PR) - [x] All changes have test coverage: - Nightly tests are added for complicated/long-running ones (e.g. changing distributed kvstore)

github_pulls_comments:

1. @mxnet-label-bot add [pr-awaiting-review]
2. There are a bunch of links pointing to a personal repo instead of dmlc/web-data. Please replace those. The rest LGTM.
3. It would be helpful for users to include some discussion of the common errors that they see e.g. when there's a tensor shape mismatch between layers of a NN. If we included the actual error message then people would find this tutorial when they Googled for the error message. This would segue nicely to the example where you show how you can't just perform these operations to make the error go away; you have to actually know what you're doing. For users who already know what tensor reshaping is, the information they need (the "how" rather than the "why") is in a few non-obvious places. Maybe add something near the top with pointers to ndarray docs for more comprehensive documentation: https://mxnet.incubator.apache.org/tutorials/basic/ndarray.html Some of the cases of users asking about mismatch errors on the discussion forum might give good background for the confusion of people who are new to such operations.
4. I added more examples e.g. common pitfalls and errors I also changed a couple of minor things.
5. LGTM. @NRauschmayr Could you trigger the CI again? @simoncorstonoliver @ThomasDelteil for another round of review
6. Can we merge?
7. @NRauschmayr checking with @marcoabreu why the build status was not propagated back to the PR status check, which is necessary for merging
8. http://jenkins.mxnet-ci.amazon-ml.com/job/mxnet-validation/job/windows-gpu/view/change-requests/job/PR-13208/4/console
9. Any update on this?

github_pulls_reviews:

1. can you please reverify this image. Transposing this ``` [[1. 2. 3. 4.] [5. 6. 7. 8.] [9. 10. 11. 12.]] ``` returns the following - ``` [[1. 5. 9.] [2. 6. 10.] [3. 7. 11.] [4. 8. 12.]] ``` But your diagram does not reflect that.
2. can you show the result of the print statement.

3. the documentation does not describe what `-2` and `-3` values does. Can this tutorial describe where and how those values are used with reshape. For example, is it with video data where we have 5-d arrays etc..
4. This shows as just text, it should be a clickable link. But a bigger point is I don't think we need this section at all. Can these two documentation links be added as a hyperlink to the first occurrence of the terms "Reshape" and "Transpose" at the beginning of the tutorial and remove this section. You are saying that, "go to the the documentation for more details" but I think this tutorial contains more details than the documentation. :) can you also please update your PR description with this link - http://mxnet-ci-doc.s3-accelerate.dualstack.amazonaws.com/PR-13208/3/tutorials/basic/reshape_transpose.html. It will help reviewers, especially when reviewing tutorials.
5. Modyfing -> Modifying often required to adjust input data dimension --> often necessary to adjust the input data dimension Both allow to --> Both allow you to
6. width and height dimensions
7. any longer
8. the axis have --> the axes have that have been --> that were
9. worth calling out that this channel ordering is different from TF?
10. Here a simplified --> Here is a simplified
11. This is happening --> This happens
12. Hi @NRauschmayr , There's also another way of pushing an empty commit in case you need to re-trigger the CI. You can try ```git commit --allow-empty -m "<commit-message>"``` :)

jira_issues:

1. **summary:** Adding tutorial about reshape and transpose
   description: Adding a tutorial that explains the difference between reshape and transpose

jira_issues_comments: