

# Keras API Design Review

This document is to be used as a template for submitting design review documents for the development of [Keras](#). To submit a proposal for a new Keras feature, or otherwise a significant modification to Keras internals, you should (as outlined in [CONTRIBUTING.md](#)):

- Copy this template to a new Google doc
- Fill in the content. Note that you will need to insert code examples. To insert code, use a Google Doc extension such as [CodePretty](#) (there are several such extensions available).
- Set sharing settings to “everyone with the link is allowed to comment”
- Send the document to [keras-users@googlegroups.com](mailto:keras-users@googlegroups.com) and create a github issue with a subject that starts with [API DESIGN REVIEW] (all caps) so that we notice it.
- Wait for comments, and answer them as they come. Edit the proposal as necessary.
- The proposal will finally be approved or rejected. Once approved, you can send out PRs or ask others to write PRs.

**Date:**

**Last revised:**

**Author(s):** (should include Github handle)

**Status:** Draft (may be subject to changes) / Final (ready for review) / Approved (ready to implement) / Rejected (won't implement)

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## Summary

One-paragraph explanation of what the proposed feature / change is about.

## Objectives

Why is the feature / change necessary? Describe the different use cases. Outline why these use cases are not appropriately addressed by the current API. Give an estimation of how many users need the feature. Convince everyone that something needs to be done.

## Changes description

List and explain every API change (e.g. added classes, added methods, added arguments). Provide as much information as you can, and provide code examples if necessary. Feel free to outline several different possible design options that have you considered, instead of a single one.

## Code examples

Illustrate how the proposed changes allow to solve the use cases listed in the **objectives** section. For every use case, provide one or more code examples so that everyone can get a clear idea of how to use the new feature and whether or not it provides a delightful user experience.

## Limitations

Are there corner cases not covered by this proposal? Are there known issues or UX inconveniences? Do you anticipate major technical difficulties? List any potential issue and limitation here.