The TypeScript Evolution Process Document (Draft, 15th May 2024)

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Private GitHub repository with this document: `https://github.com/bldl/typescript-process-document`.

Stages

- Stage names below are based on the *Contributing to TypeScript wiki page* and the issue labels in the TypeScript GitHub repository.
- Notions / terms are formatted as *underlined (dotted) text*.
- Parts of this draft document that require further confirmation are formatted as tomato-colored text.
- This document's authors' remarks are formatted as *gray-highlighted bold italic text*.

The TypeScript Suggestion/Proposal Stages

TC39 Equiv.	Stage		Purpose	Entrance Criteria	Expected Outcomes	Spec Quality at Entrance	Post-Stage Changes Expected	Implementation Expected	Expected Feedback from Users
0	*Untriaged*		Allow community members to come up with new feature *suggestions*. Open discussions and consider authoring a more detailed *proposal*.	None	*TypeScript Design Team* will discuss this *suggestion*, or request a *proposal*.	N/A	Major	None	Considerable. Discussions at this stage happen in public Github issue threads.
1, **2**	*In Discussion*		*TypeScript Design Team* discusses the *suggestion*.	*What are the entrance criteria?* *It seems that a proposal does not necessarily have to exist at this stage.*	*TypeScript Design Team* has internal discussions. *TypeScript Design Team* has accepted the *proposal*/*feature*, and *implementation* may begin.	(Early) Draft	Major	None	None. However, the GitHub issue for the *suggestion* remains open, allowing for further comments.
	On Hold	*Awaiting More Feedback*	Wait for *feedback* from community members who would benefit from the *suggestion*.	*TypeScript Design Team* must gather more *feedback* from community members in order to make a decision.	The community has voiced its opinion on the *suggestion*, and *TypeScript Design Team* may proceed with discussions.	*What is the spec quality at entrance?*	Major	None	Considerable. This stage exists for community members to voice their opinions and conduct open discussions.
		Needs Investigation	Allow a *team member* to investigate the *suggestion*.	*What are the entrance criteria?*	A direction for the design of the *suggestion* will be worked out.	*What is the spec quality at entrance?*	Major		None. However, the GitHub issue for the *suggestion* remains open, allowing further comments.
		Needs Proposal	Request that a detailed and *formal proposal* be authored for the *suggestion*. The *proposal* will be used to more accurately evaluate the *suggestion*.	*What are the entrance criteria?*	A *proposal* has been authored by the original author or another person.	Draft. The template is filled out, but is too imprecise / incomplete / informal for *TypeScript Design Team* to properly evaluate.	Major		None. However, the GitHub issue for the *suggestion* remains open, allowing further comments.

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			Needs More Info	Address questions in the *proposal*.	Questions have been identified regarding the *suggestion*, and they have been relayed to the author.	The questions have been addressed, and discussions may continue.	Draft. A *formal proposal* exists, but has unresolved questions.	Major		None. However, the GitHub issue for the *suggestion* remains open, allowing further comments.
			Waiting for TC39	Signal that the *suggestion* is not actionable before TC39 has reached some conclusion on a *related proposal*.	A *related proposal* which will impact the design of this *suggestion* is under consideration by the TC39 committee.	TC39 has reached a conclusion, making this *suggestion* actionable.	N/A	N/A		None. However, the GitHub issue for the *suggestion* remains open, allowing further comments.
			Revisit	Signal that a *suggestion* that has been put on hold earlier, is now worth reconsidering.	*What are the entrance criteria?*	The *suggestion* has been taken back into discussion.	*What is the spec quality at entrance?*	(Very) Major		*What feedback is expected from users?*
2.7, **3**	*Ready to Implement*			Signal that the *proposal* is complete and accepted, and that work on the *implementation* may begin.	Design of the *suggestion* is complete. *What is the exact definition of "complete"?* .*TypeScript Design Team* accepts the *feature*. *How exactly does this happen?*	The *implementation* will start.	Complete	None / Limited (only critical changes - based on the implementation experience)	*Does the implementation work only start here?* *Are experimental implementations solicited from the community?*	None. However, the GitHub issue for the *suggestion* remains open, allowing further comments.
	Committed			*TypeScript Design Team* has allocated time to write an *implementation* of the *suggested feature*.	*What are the entrance criteria?*	The *implementation* is complete. *What is the exact definition of "complete"? There are* **tests in the TypeScript repository**, *they do not seem to be explicitly mentioned in the* **wiki page**, *but are mentioned in the* **Instructions for logging issues**.	Complete	None / Limited (only critical changes - based on the implementation experience)	Complete	None. However, the GitHub issue for the *suggestion* remains open, allowing further comments.
	Help Wanted			*TypeScript Design Team* requests help with implementing the *feature*, accepting Pull Requests with *full implementation*.	*What are the entrance criteria?*					
4	*Fixed*			Signal that *implementation* is complete, and that the Pull Request has been merged.	*Implementation* is complete, and the requirements for it are fulfilled. *Does this mean that the implementation passes the* **tests**?	The *proposal* will be shipped in an upcoming version of TypeScript.	Final	None	Shipping	None
N/A	*Declined*			*TypeScript Design Team* has declined the *suggestion* / *proposal*, for one of the following reasons: Out of Scope, Too Complex, Breaking Change, Working As Intended, or Design Limitation.	*TypeScript Design Team* declines the feature. *How exactly does this happen?*	The *suggestion* will not be considered further.	N/A	N/A	N/A	None