

# Adaptation and Assessment (TwoA) asset in TypeScript (v1.0)

Citation for published version (APA):

Nyamsuren, E. (2016). Adaptation and Assessment (TwoA) asset in TypeScript (v1.0). Software, Open Universiteit Nederland. [https://github.com/rageappliedgame/HATAsset\\_TS](https://github.com/rageappliedgame/HATAsset_TS)

## Document status and date:

Published: 23/09/2016

## Document Version:

Peer reviewed version

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**Title**

Adaptation and Assessment (TwoA) asset in TypeScript (v1.0)

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**Abstract**

Developed within the RAGE project funded by EU within Horizon2020 program. This asset enables a real-time automatic adaptation of game difficulty to player's expertise level. The adaptation algorithm makes use of a stealth assessment algorithm that assigns difficulty ratings and expertise ratings to the players and the game modules respectively. The asset tracks changes in these ratings allowing assessment of players' learning progress either by players themselves or by instructors. This is the version written in TypeScript language.

**Screen shots**

none

**Version & change log**

Version	Date	URI
1.0	23-Aug-2016	<a href="https://github.com/rageappliedgame/HATAsset_TS">https://github.com/rageappliedgame/HATAsset_TS</a> <a href="https://github.com/rageappliedgame/HATAsset_TS/tree/4bdcc1a3f32ac149f2bdd42481d7671ba3298ee8">https://github.com/rageappliedgame/HATAsset_TS/tree/4bdcc1a3f32ac149f2bdd42481d7671ba3298ee8</a>

**Source code**

[https://github.com/rageappliedgame/HATAsset\\_TS](https://github.com/rageappliedgame/HATAsset_TS)  
[https://github.com/rageappliedgame/HATAsset\\_TS/tree/4bdcc1a3f32ac149f2bdd42481d7671ba3298ee8](https://github.com/rageappliedgame/HATAsset_TS/tree/4bdcc1a3f32ac149f2bdd42481d7671ba3298ee8)

**Source code license**

Apache License, Version 2.0

**Installing the project**

[https://github.com/rageappliedgame/HATAsset\\_TS/tree/4bdcc1a3f32ac149f2bdd42481d7671ba3298ee8](https://github.com/rageappliedgame/HATAsset_TS/tree/4bdcc1a3f32ac149f2bdd42481d7671ba3298ee8)

**Dependencies**

RAGE Client-side Asset Architecture: [https://github.com/rageappliedgame/asset-proof-of-concept-demo\\_TypeScript](https://github.com/rageappliedgame/asset-proof-of-concept-demo_TypeScript)

**References**

Nyamsuren, E., van der Vegt, W., & Westera, W. (2017). Automated Adaptation and Assessment in Serious Games: a Portable Tool for Supporting Learning. In Proceedings of the Fifteenth International Conference on Advances in Computer Games 2017 (ACG2017).