Construct Social Media Interventions

This document expects the reader to be well versed in Construct, how it parses xml, how social media models operate in Construct, and how to use the Construct API. All of the required information can be found in the [Construct User Guide](http://casos.cs.cmu.edu/publications/papers/CMU-S3D-23-104.pdf). The Construct API continues to be improved with updates, so be sure to check patch notes for all the changes made. This document refers to the Interventions branch on [Construct’s GitHub](https://github.com/CASOS-IDeaS-CMU/Construct-API). This document will go over some examples of social media interventions that can be customized by users both through manual coding or through modification of inputs.

# Censored

This user specialization is used when the node attribute “censored” is present in the corresponding agent node’s attributes. The value of the attribute is not relevant. When this user has been selected, two more agent attributes are queried, “knowledge” and “time”. These attribute values should be indexes that correspond to their corresponding nodesets. Once Construct’s time index is greater than or equal to the value for the “time” attribute, the user will no longer create posts that contain the knowledge index from the “knowledge” attribute.

# Compel

This user specialization is used when the node attribute “compel” is present in the corresponding agent node’s attributes. The value of the attribute is not relevant. When this user has been selected, two more agent attributes are queried, “knowledge” and “time”. These attribute values should be indexes that correspond to their corresponding nodesets. Once Construct’s time index is greater than or equal to the value for the “time” attribute, the user will return 0 for its trust value for the knowledge index from the “knowledge” attribute.

# One Time Compel

This user specialization is used when the node attribute “one time compel” is present in the corresponding agent node’s attributes. The value of the attribute is not relevant. When this user has been selected, two more agent attributes are queried, “knowledge” and “time”. These attribute values should be indexes that correspond to their corresponding nodesets. Once Construct’s time index is greater than or equal to the value for the “time” attribute, the user will create a new post with knowledge index from the “knowledge” attribute and a knowledge trust of 0. This is in addition to the posts that the user would normally create.