To see a detailed tutorial, follow the link: https://youtu.be/H7WuyoXINZE

The system consists of three entities: SaveMaster, ISavableComponent, ComponentData

SaveMaster public virtual void Save(string folderPath, string fileName, string format);

public virtual void Save(string folderPath, string fileName, string format); public virtual void Load(string folderPath, string fileName, string format);

<ISavableComponent

int uniqueID { get; }
int executionOrder { get; }

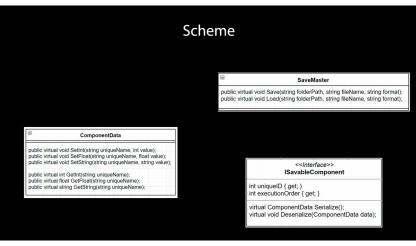
virtual ComponentData Serialize(); virtual void Deserialize(ComponentData data);

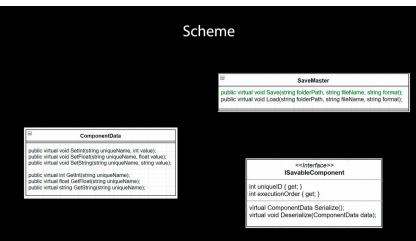
public virtual void SetInt(string uniqueName, int value); public virtual void SetFloat(string uniqueName, float value); public virtual void SetString(string uniqueName, string value); public virtual int GetInt(string uniqueName); public virtual float GetFloat(string uniqueName); public virtual string GetString(string uniqueName);

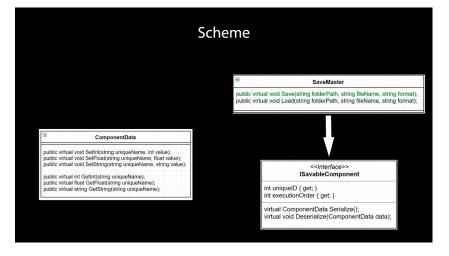
The idea is pretty simple.

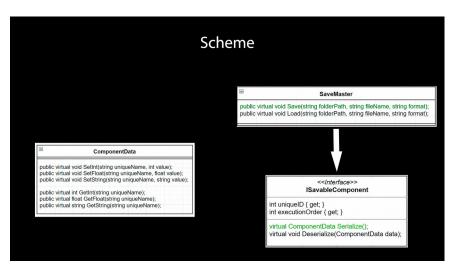
When You call «Save» method on SaveMaster. SaveMaster find all components that implements ISavableComponent interface and call «Serialize» method. This method returns «ComponentData» then SaveMaster store «ComponentData» to disk.

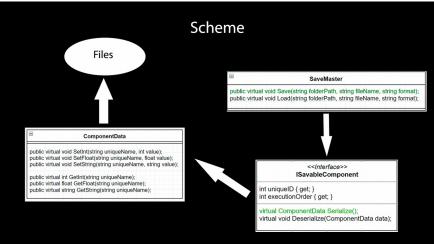
When You call «Load» method on SaveMaster occurs reverse process.

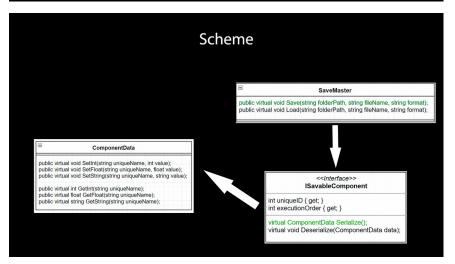


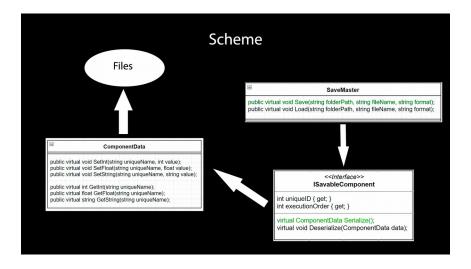












All You need to make component «savable» it's just implement «ISavableComponent» interface on this component.

Here is example how to make Transform data savable.

Extended component data class:

TransformSaver class:

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If You have any questions You can freely contact me via e-mail: andre-orsk@yandex.ru