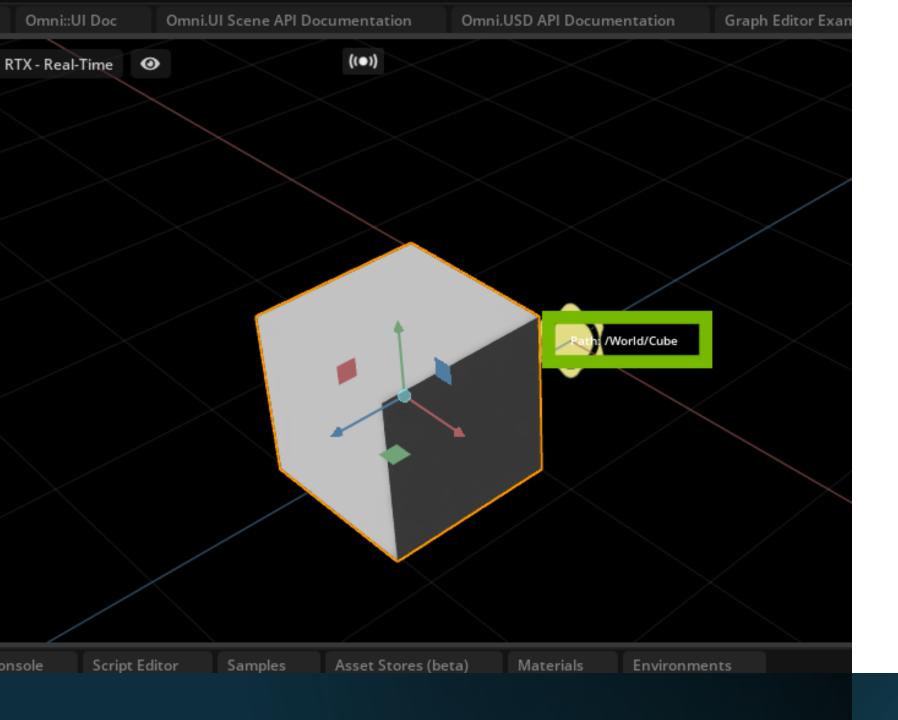
HSML Form Generation Website

Big Picture/Goals

- No-friction way to generate HSML objects
 - Used later for registering ownership (Alicia's HSML API)
 - ...and for syncing changes in real-time (Jared/Sub's producer/consumer scripts and database)
- Easily maintainable, low-code
 - Avoid having to make SMEs perform a task they're unfamiliar with/don't like (coding) to do their main job (validating designs in a digital twin environment)



Omniverse Al Plugin

- Select an object in Omniverse
- "Base" HSML (ex. Entity) is generated by a LLM for the object, for later manipulation for registration (API) and syncing changes (pub/sub)

```
"@context": "https://digital-twin-interoperability.github.io/hsml-schema-context/hsml.jsonld",
          "@type": "Agent",
          "name": "Cadre 1",
          "swid": "did:key:generate-Chassis-001",
          "identifier": {
            "@type": "schema:PropertyValue",
           "propertyID": "schema_Chassis",
           "value": "Chassis-001"
          },
11
          "url": "1hF_bUKvJWxV2SMVLj4wQ2Mg_vb_F9oKO",
12
          "creator": {
           "@type": "Person",
           "name": "Jared Carrillo"
15
          },
          "dateCreated": "2024-01-01",
          "dateModified": "2024-12-06T15:31:17",
          "encodingFormat": "application/x-obj",
19
          "contentUrl": "https://example.com/models/3dmodel-001.obj",
          "description": "Rover data with world position and rotation",
          "platform": "Omniverse",
          "spaceLocation": [
              "@type": "Hyperspace",
              "name": "Moon"
```

Issues

- User input frequently needed
 - LLM may inaccurately describe an object, doesn't know the URL the object is hosted at, etc
- Complexity of maintaining
 - Coding separate plugins for Omniverse, Unity, Unreal, and whatever comes next (TINA, etc)

VOU

Create HSML Object



	Person
	Name:
	Birth Date (YYYY-MM-DD):
	YYYY-MM-DD
	Email:

Generated HSML JSON

```
{
   "@context": "https://digital-twin-interoperability.github.io/hsml-schema-context/hsml.jsonld",
   "@type": "Person",
   "name": "Gerald Parish",
   "birthDate": "1998-09-09",
   "email": "grparish@uark.edu"
}
```

Download HSML JSON

Create another

MVP Goals

- Five categories:
 - Person
 - Agent
 - Entity
 - Credential
 - o Organization
- Integrate with HSML API/provide a front-end for the HSML API