



TRUXTON ETL Extensions

The Truxton framework allows users to add, modify, or replace tools in our automatic ETL process. This gives you the flexibility to adapt to new formats and challenges at any time, using any source code you want. Truxton's unique design also allows you duplicate tools within the automated ETL to handle increasing processing demands for a particular tool. The following examples show just how easy it is to modify Truxton using Python, C# and C/C++ formats.

Python

```
import hashlib
import truxton
def main (argv):
    etl = truxton.etl()
    etl.name = "My Python ETL"
    etl.description = "This ETL processes files in the Truxton system"
    etl.queue = "expand"
    etl.stage = 2
    etl.id = 4334
    etl.version = 1
    message = etl.getmessage()
    while message != None:
        file = message.file()
        print file.hash
        if file.type == 42:
            child = file.newchild()
            child.type = 201
            child.name = "Sam"
            child.write( "Hello World")
            child.save()
        message = etl.getmessage()
```

C#

```
internal class GigaScan : TruxtonETL.ETL
{
    public Database Truxton { get; set; }
    public GigaScan() { Truxton = new Database(); }
    public void Scan(Stream file_contents)
    { // YOUR CODE GOES HERE }
    public override void HandleMessage(TruxtonMessage message)
    {
        var file_contents =
Truxton.GetMediaFreespaceStream((Guid)message.media_id);
        Scan(file_contents);
    }
}
class Program
{
    static void Main(string[] args)
    {
        var my_etl = new GigaScan();
        my_etl.Stage = (int)TruxtonETL.Stages.PolyFileExpansion_Stage_Minimum;
        my_etl.ApplicationName = "The GIGA Scanner";
        my_etl.Description = "This ETL hosts our scanning techniques.";
        my_etl.MessageQueueName = "gigascan";
        my_etl.Start();
    }
}
```

C/C++

```
void handle_message( Truxton * t, void * context, TRUXTON_MESSAGE * m )
{
    Content * c = t->GetContents( m );
    // YOUR CODE GOES HERE
    t->FreeContents(c);
}
void main( int argc, char *argv[] )
{
    ETL_APPLICATION etl;
    etl.size = sizeof( etl ); etl.stage = TRUXTON_STAGE_EXPAND;
    etl.application_name = "The GIGA Scanner";
    etl.description = "This ETL hosts our scanning techniques"
    etl.queue_name = "gigascan";
    etl.message_handler_function = handle_message;
    Truxton::ETLApplication( &etl );
}
```