Hang in there...we're starting soon



# BIML-UP!!

How I use BIML to speed up SSIS development

by Martin Schoombee





### **About Me**

"I help people make sense of their data"

My blog: martinschoombee.com

My company: 28twelve.consulting

Tweet me: @MartinSchoombee



https://github.com/mschoombee/Presentations/wiki/Presentations





# **Agenda**

- What is BIML
- Reasons to use BIML
- BIML basics
- How I use BIML



# Markup Language

```
<html>
<title>Hello World!</title>
<body>
This is a paragraph...
</body>
</html>
```

# **Markup Language - Tags**

```
<html>
    <title>Hello World!</title>
    <body>
        This is a paragraph...
        </body>
</html>
```

### Markup Language – Human Readable

```
<html>
<title>Hello World!</title>
<body>
This is a paragraph...
</body>
</html>
```

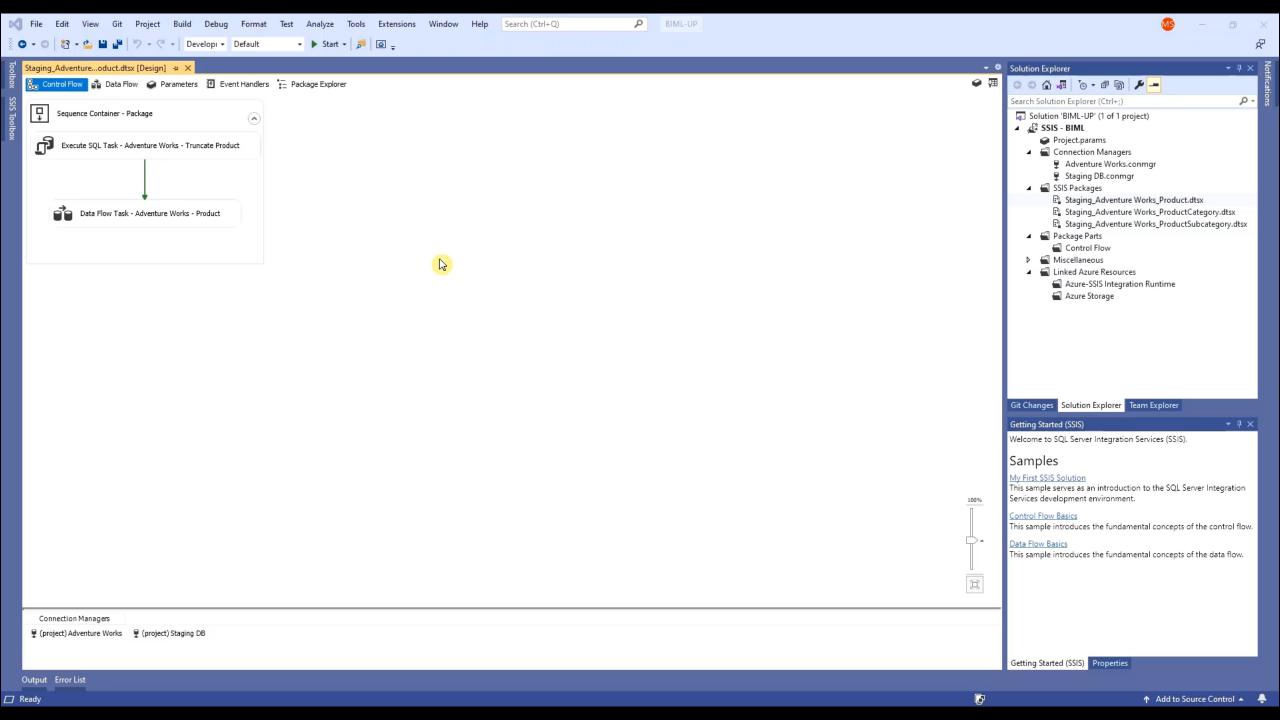
# **Markup Language - Properties**

```
<html>
<title style="color:blue;">Hello World!</title>
<body>
This is a paragraph...
</body>
</html>
```

#### **BIML**

```
<Biml xmlns="http://schemas.varigence.com/biml.xsd">
     <Packages>
          <Package Name="Load Some Data">
          <Package>
     </Packages>
</Biml>
```





☐ Item(s) Saved

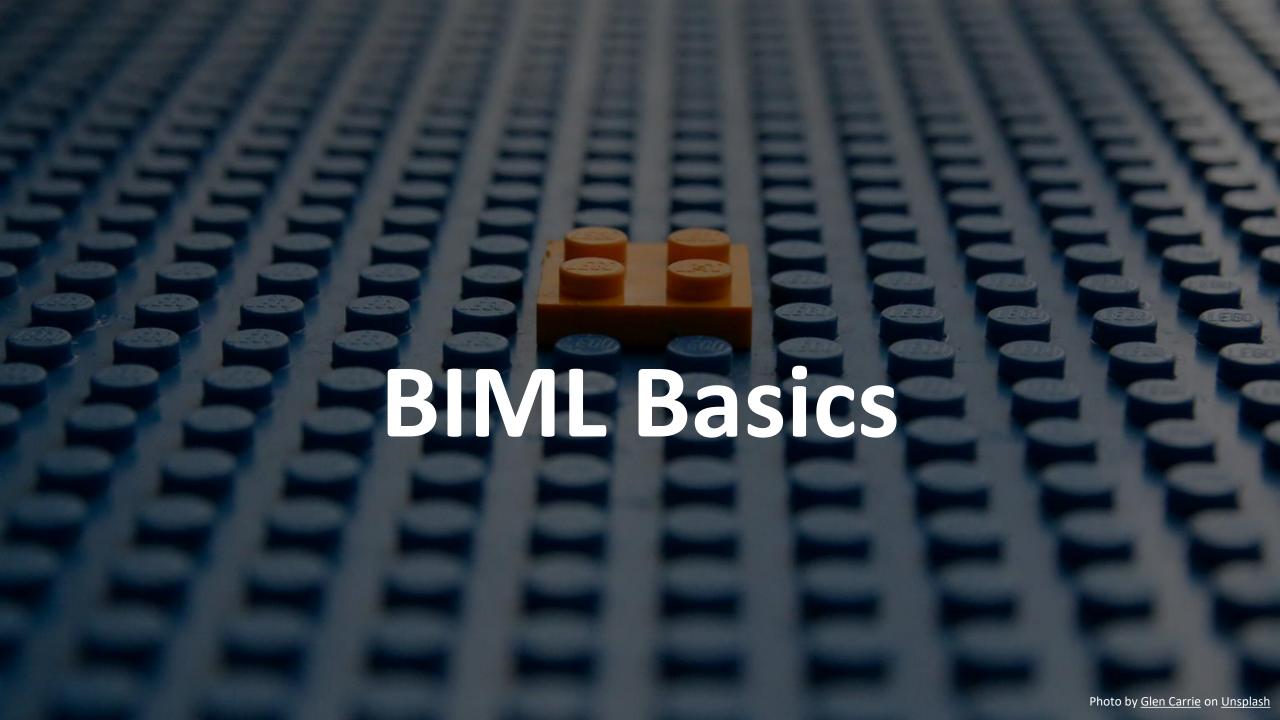


1. Save your mouse...and your sanity!!

- 1. Save your mouse...and your sanity!!
- 2. Enforce coding standards

- 1. Save your mouse...and your sanity!!
- 2. Enforce coding standards
- 3. Source control

- 1. Save your mouse...and your sanity!!
- 2. Enforce coding standards
- 3. Source control
- 4. Automation





# A typical ETL framework

1. Connect to data source



# A typical ETL framework

- 1. Connect to data source
- 2. Extract metadata (tables, fields, etc.)



# A typical ETL framework

- 1. Connect to data source
- 2. Extract metadata (tables, fields, etc.)
- 3. Use BIML to generate staging packages





# Why am I different?

- 1. Don't want all source tables
- 2. Want a subset of attributes
- 3. May need to change data types





1. Identify source system(s)

- 1. Identify source system(s)
- 2. Identify source attributes

- 1. Identify source system(s)
- 2. Identify source attributes
- 3. Create staging tables

- 1. Identify source system(s)
- 2. Identify source attributes
- 3. Create staging tables
- 4. Develop staging SSIS packages

- 1. Identify source system(s)
- 2. Identify source attributes
- 3. Create staging tables
- 4. Develop staging SSIS packages
- 5. Oops, I forgot something!

- 1. Identify source system(s)
- 2. Identify source attributes
- 3. Create staging tables
- 4. Develop staging SSIS packages
- 5. Oops, I forgot something!
- 6. Back to step 2 (x 10)...

. . .

24. Develop fact table procedures

25. Oops, I forgot something!

. . .

- 24. Develop fact table procedures
- 25. Oops, I forgot something!
- 26. Back to step 2 (x 20)...

. . .

104. Show new report to end user

. . .

104. Show new report to end user

105. User wants another measure

#### My ETL development process

. . .

104. Show new report to end user

105. User wants another measure

106. Oops, I need a new source attribute!

#### My ETL development process

. . .

104. Show new report to end user

105. User wants another measure

106. Oops, I need a new source attribute!

107. Back to step 2 (x 100)



Script tables



- Script tables
- Generate staging packages



- Script tables
- Generate staging packages
- Generate parent packages



- Script tables
- Generate staging packages
- Generate parent packages
- Reduce impact/risk

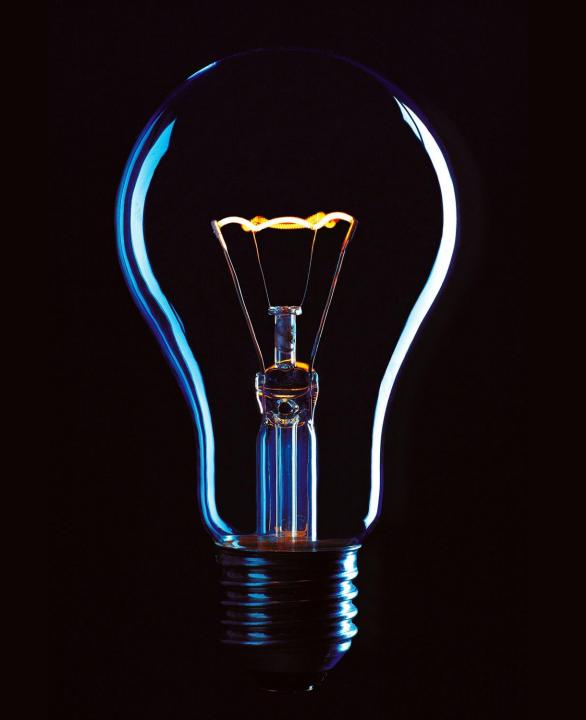


- Script tables
- Generate staging packages
- Generate parent packages
- Reduce impact/risk
- Speed up development



- Script tables
- Generate staging packages
- Generate parent packages
- Reduce impact/risk
- Speed up development
- Assist with documentation







#### **About Me**

"I help people make sense of their data"

My blog: martinschoombee.com

My company: 28twelve.consulting

Tweet me: @MartinSchoombee





https://github.com/mschoombee/Presentations/wiki/Presentations



