# 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

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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>
```

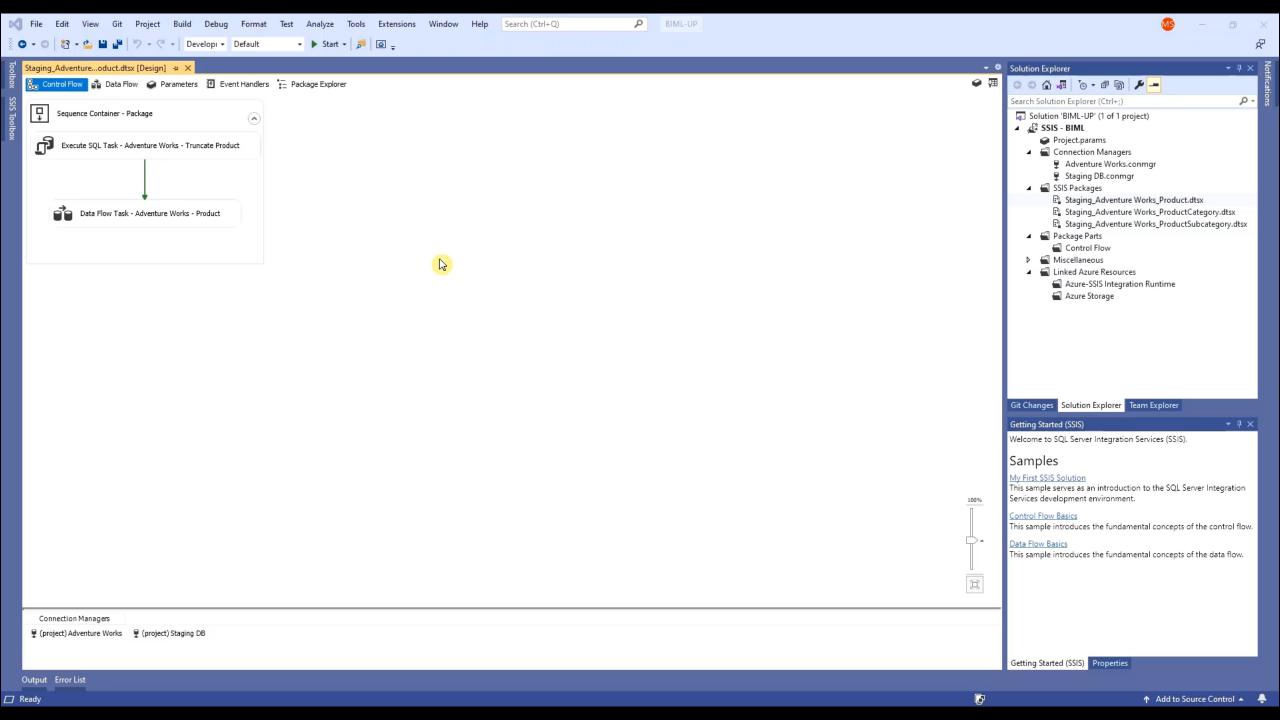
### **Markup Language - Properties**

```
<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

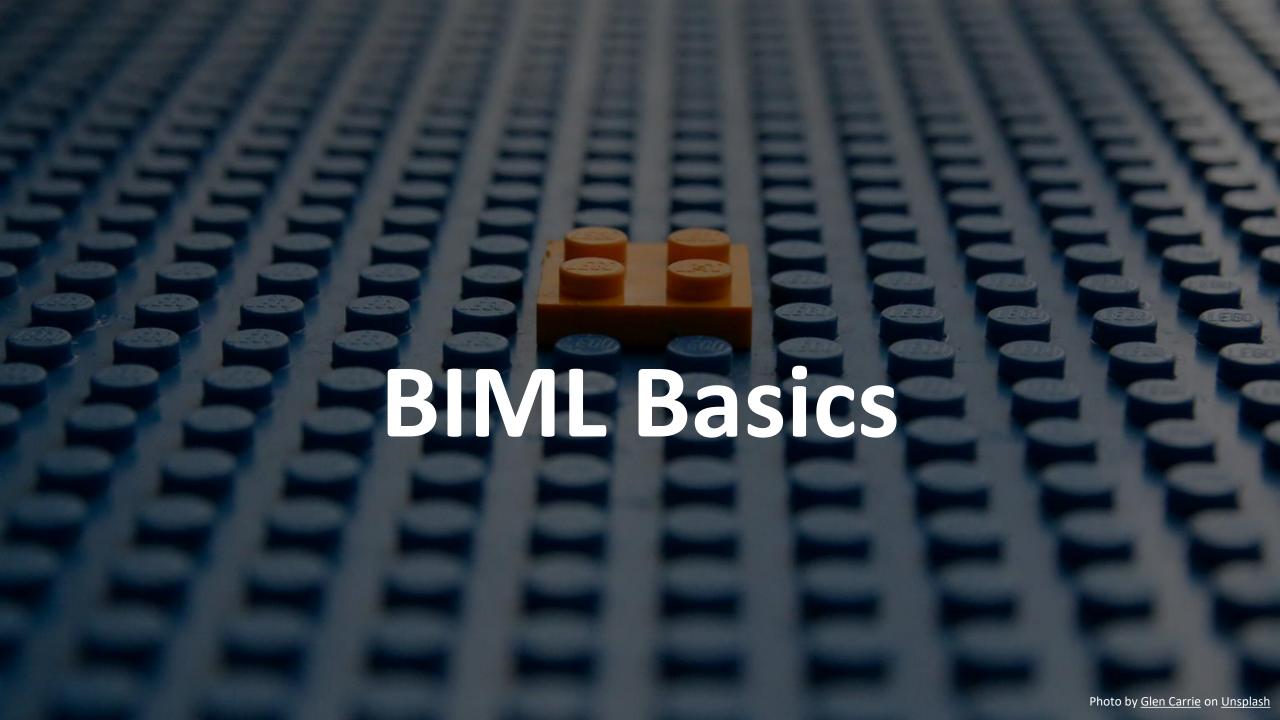


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- 2. Enforce coding standards
- 3. Source control
- 4. Automation





# A typical ETL framework

1. Connect to data source



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- 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)

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- 2. Identify source attributes

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- 3. Create staging tables

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- 4. Develop staging SSIS packages

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- 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

. . .

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105. User wants another measure

. . .

104. Show new report to end user

105. User wants another measure

106. Oops, I need a new source attribute!

. . .

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

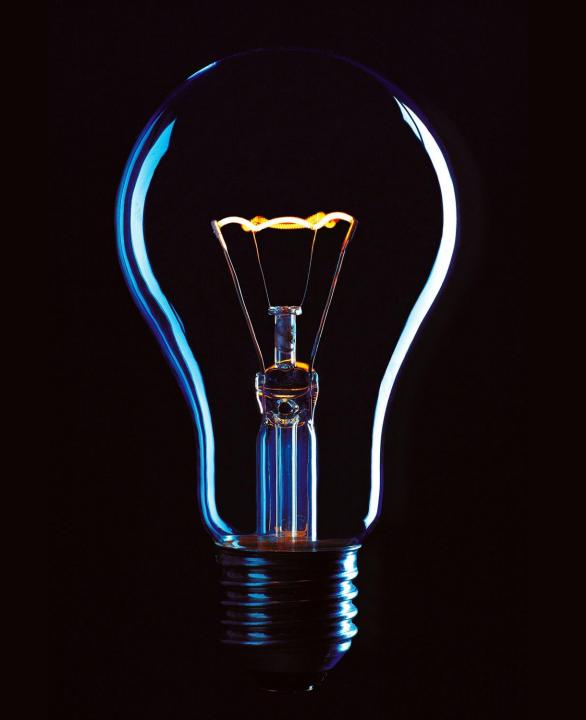


- Script tables
- Generate staging packages
- Generate parent packages
- Reduce impact/risk
- Speed up development



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







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