

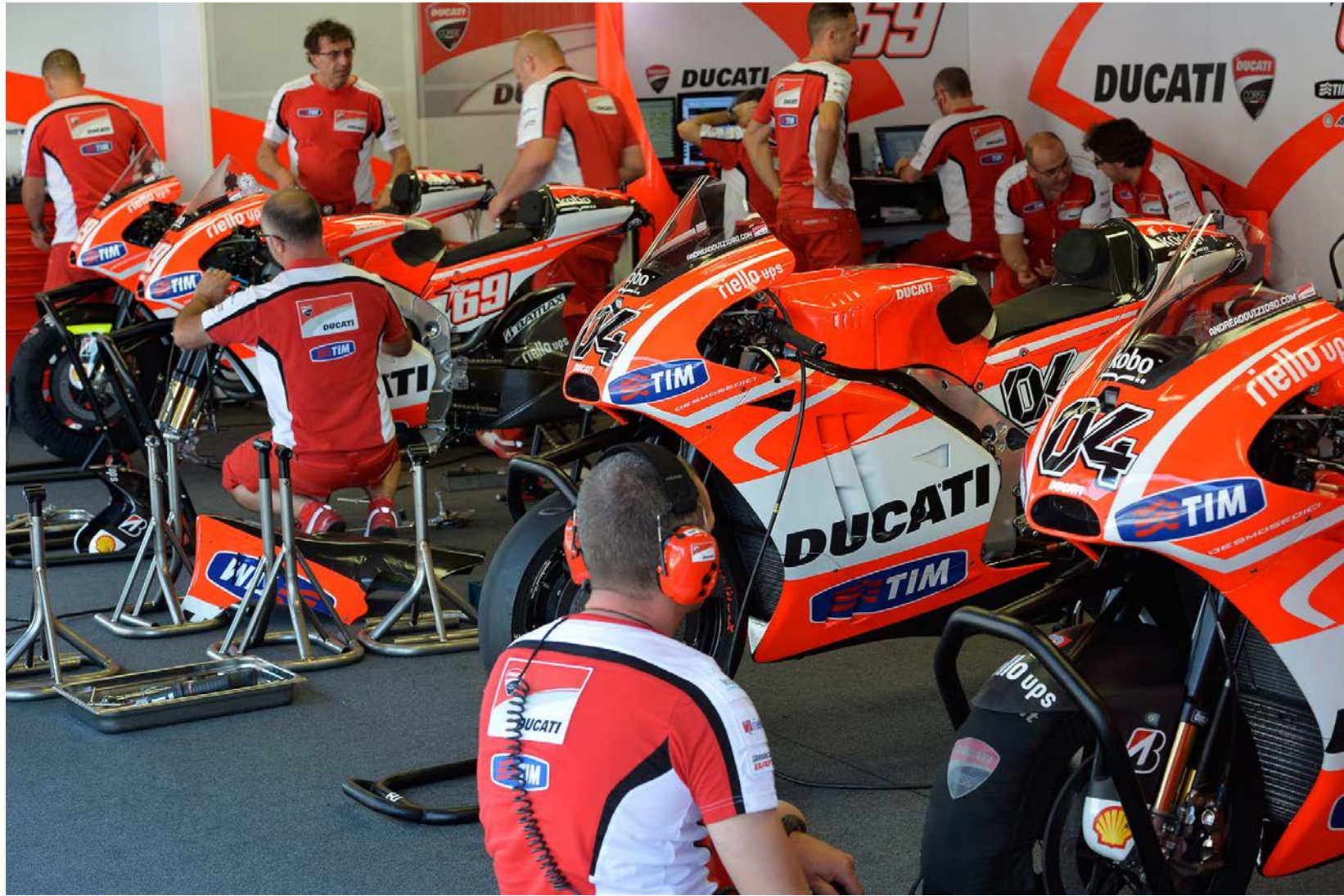
# Techniques Learned as a Studio Developer



Building for the future. Better, faster, everywhere.

SYNERGY 2017





Building for the future. Better, faster, everywhere.

SYNERGY 2017

~650 DataFlex Source Files  
Runtime Components  
Internal COM Components  
External COM Components  
JavaScript

Multiple Contributors  
Fast  
Reliable  
Extendable

# Entropy is your Enemy

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Careful, Proven Design

Good API's

Consistency

Clean & Tidy

Refactor When Necessary

# Interconnected Functional Modules

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- Code Editor
- Code Explorer
- Table Editor
- Data Dict. Modeler
- Visual Designers
- ...
- Code Generator
- Code Data Structure
- Table Manager
- File Manager
- Undo/Redo Manager
- ...

# Large & Complicated



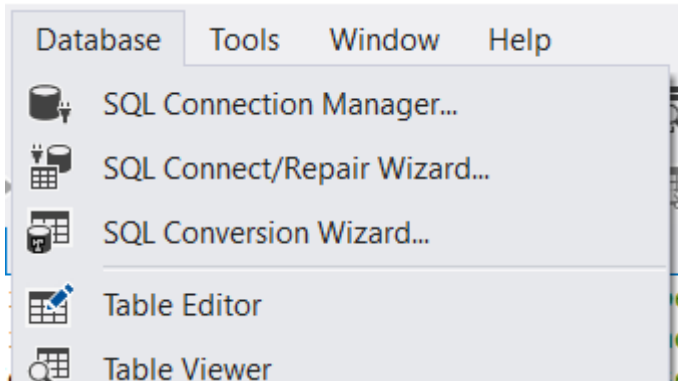
# Too Many Things to Remember



# Action Manager

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## Studio “Command” Set



### Projects

① Project New

Current Project: Studio.src

Test Project: > Create a test project

WebApp Project: > Create a Web Application

> Learn more...

# Singleton Objects

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Encapsulate a behavior

The behavior is available globally

or applied globally

# Global Functions

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The behavior is available globally

The behavior is self-contained

Declare each global function in a separate file

# Visual Modeling Challenges

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All UI modules should be visually modeled

This is a challenge if the view is created dynamically, and is multi-instance

For example Table Editor