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# Interactive Reporting JavaScript

Examples & Best Practices

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Ranzal & Associates



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## About Ranzal & Associates

- **Founded in 1996, Ranzal has implemented Hyperion solutions for 350+ companies (600+ projects since the acquisition)**
- **Oracle / Hyperion Certified Advantage Partner - Highest Status**
- **Hyperion “Americas Reseller Partner of the Year”**
  - › 1999, 2005 & 2007
- **Certified EPM Consultants & Instructors**
- **Vertical Expertise with High-Profile Clients from Coast to Coast**
  - › East Coast & West Coast Presence
- **Sound Project Methodology Insures Project Success**
  - › Support Business Applications from start to finish
- **One of the Largest Hyperion Practices in the U.S.**
- **“Best Planning & Essbase Practices with Best HFM Practice”**
  - › Hyperion Development utilizes Ranzal for Planning, Essbase and HFM product direction



## About Ranzal & Associates

- **Our team has been involved in 500+ successful EPM Implementations**
  - › Financial Consolidation & Management Reporting
  - › Budgeting & Planning
  - › Profitability Management Solutions
  - › Business Intelligence and Data Warehousing
  - › Infrastructure Planning and Performance Tuning
  - › Business Process and Project Management
  
- **Strong client portfolio across leading Industry Sectors including**
  - › Financial Services
  - › Insurance
  - › Retail / Consumer Packaged Goods
  - › Manufacturing
  - › Pharmaceutical & Hospital
  - › Hospitality / Travel / Entertainment
  - › High Technology / E-business
  - › Energy / Utilities
  - › Distribution
  - › Government
  - › Other
  
- **Certified consultants and instructors**
  - › Hyperion Essbase, Hyperion Planning, Hyperion Financial Management, Hyperion Enterprise, Hyperion Strategic Finance, Hyperion BI+ (Web Analysis, Financial Reports, Interactive Reporting, Production Reporting), Hyperion Data Relationship Management, Hyperion Financial Data Quality Management, Data Services (including ETL, Warehousing)



# Agenda

- JavaScript in Interactive Reporting
- Tips & Good Habits
- Examples
- Where to get help and Q & A



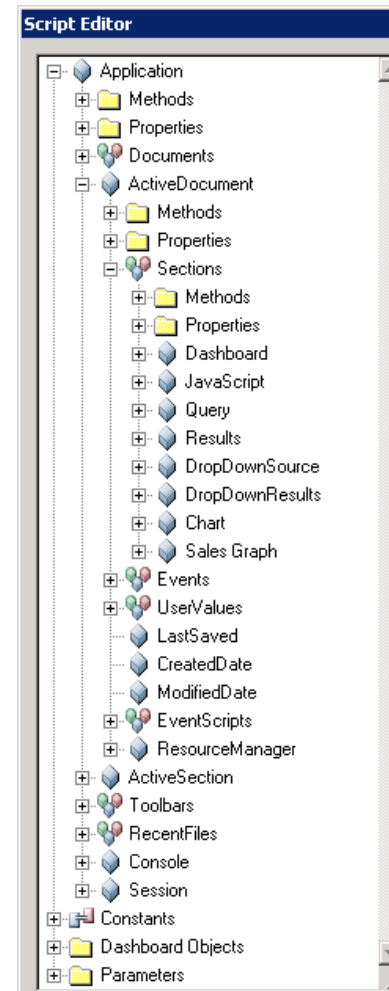
## Interactive Reporting's "Object Model"

- Objects
  - Collection of methods, properties and other objects
- Methods
  - Called "functions" or "subroutines" in other languages
- Properties
  - Contain values that describe an object or determine how it behaves



# Interactive Reporting's "Object Model"

- Object
  - Methods
  - Properties
  - Objects
    - Methods
    - Properties
    - Objects
      - Etc
      - Etc
      - Etc





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# Interactive Reporting's "Object Model"

- Application
  - Documents
    - Sections
      - Methods
      - Properties



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# Interactive Reporting's "Object Model"

- Dashboard Sections
  - Shapes
    - Methods
    - Properties



## Interactive Reporting's "Object Model"

- Query Sections
  - Connection
    - Methods
    - Properties
  - Sort Items
    - Methods
    - Properties
  - Limits
    - Methods
    - Properties



# Interactive Reporting's "Object Model"

- Results Sections
  - Methods
  - Properties
  - Sort Items
    - Methods
    - Properties
  - Limits
    - Methods
    - Properties



# Interactive Reporting's "Object Model"

Calling methods:

- `Object.method(parameters)`
- Example:
  - `ActiveDocument.Sections["Dashboard"].Activate()`
    - Switches the document to the section named "Dashboard"
  - `ActiveDocument.SaveAs("copy.bqy")`
    - Saves the current BQY as the name supplied in the parameters



# Interactive Reporting's "Object Model"

Accessing properties:

- Object.property
- Example:
  - `ActiveDocument.Sections["Dashboard"].Visible`
    - Returns either a true or false
    - Many properties can also be set
  - `ActiveDocument.Sections["Dashboard"].Visible = False`
    - Hides the section named "Dashboard"



# Tips & Good Habits

## Use Console.WriteLine

*Console.WriteLine("Hello World")*



An alternative is "Alert", however these are slow, especially in  
Workspace



# Tips & Good Habits

## Use “try and catch”

```
try {  
    do something  
} catch(e) {  
    Console.WriteLine(e)  
}
```



## Tips & Good Habits

Anytime code is used more than once, put it in a function

- Less code
- More modular code

```
function Name(param1, param2, etc) {  
    return value  
}
```



## Tips & Good Habits

- Make functions universally available

```
ActiveDocument FunctionName = function Name(p1,p2) {  
  
}
```

Can then be called from anywhere simply as FunctionName



## Tips & Good Habits

- Make variables accessible from anywhere

*ActiveDocument.myValue = 10*

Can then be called from anywhere simply as myValue

- Good for creating “constants” or “environment” values and passing values from section to section
- Make sure to document where value is being set from in code



# Tips & Good Habits

- Make use of Document Scripts
  - Under “File” and then “Document Scripts”
  - OnStartup
    - Set actions to happen one time when document loads, such as processing a single query
  - OnShutdown
    - Set actions to happen when the document is closed, such as explicitly closing connections

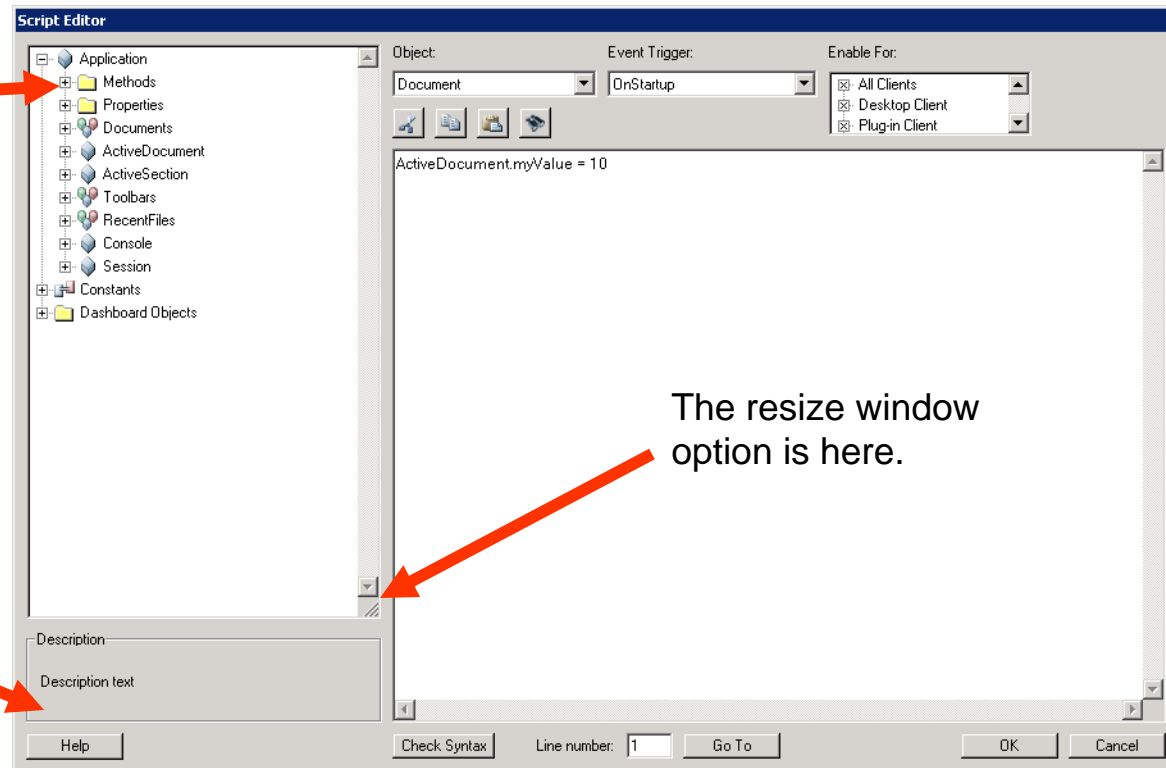


# Tips & Good Habits

- Get used to the script editor

Explore the object model by clicking the + signs. As you add objects, such as limits, they appear in the object model

Highlight any thing in the object model and go directly to that section in the help menu



The resize window option is here.



# Tips & Good Habits

- Format code with tabs
  - Tabs
    - In each instance of a function, if/else, for, or while indent with a tab (or 5 spaces if you're a purist coder)

```
function DoSomething(x, y) {  
    if (x < 3) {  
        value =x - y  
    } else {  
        for (i = 0; i < x; i++ {  
            value += y  
        }  
    }  
}
```



## Tips & Good Habits

- Use comments liberally
  - `//` will comment out a line

```
value = x+y //this adds x+y together
```

- `/* */` will comment out a section

```
/* In this section of code we add x and  
y together and assign it to value */  
value = x + y
```



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# Example Code



# Help

- Built-in help
- Books
  - No specific books for IR JavaScript
  - If you're new to JavaScript, I recommend at least reading the first few chapters of the O'Reilly "JavaScript: The Definitive Guide" book
- Be adventurous... hunt and peck around the object model in the script editor
- E-mail me



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## Contact Information

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