NG	Print Templates: Customization with iReport
A N A H E I M May 17 - 20, 2009	Steve Heser Milwaukee County Federated Library System

■ What we will cover

- Relate lessons learned in using iReport
- Discuss report elements
- Talk about using the expression editor to customize output

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■ What we won't cover

- → The Millennium side of things
- An exhaustive overview of iReport
- Printers or the actual act of printing

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iReport

- What is it?
 - a GUI reporting tool for Java applications
 - originally created for an application called JasperReports
- Why are we using it?
 - Opensource
 - Ability to create XML files



Print documentation

- "Definitive Guide to iReport"





■ iReport Structure and Report Elements

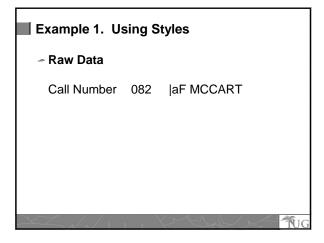
- Bands
 - Don't cross the streams bands

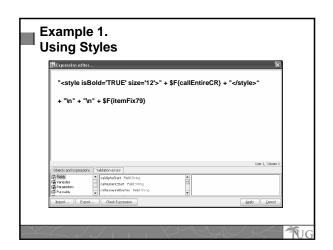


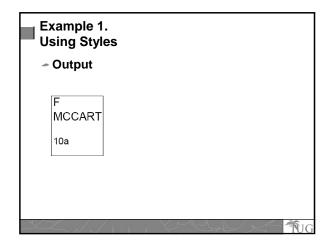
- Elements
 - Elements are measured in pixels using the 72 dpi (dots per inch) standard
- Fonts and Styles
 - Diacritics

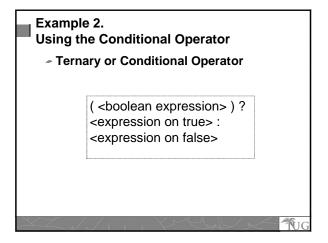


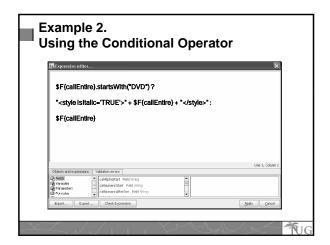
List of available styles	
∽ size	
- fontName	
→ isltalic	
→ isStrikeThrough	
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Expression Editor: Defining Terms	
Objects include both data and functions	
~ Classes	
a blueprint to create objects	
Methodsa subroutine associated either with a class or an object	
→ Fields	
using the data libraries defined by Innovative	
Examples of Some Methods used	
in the Java.lang.string class equals(Object) boolean	
contains(CharSequence) boolean	
- endsWith (String) boolean	
· indexOf(String) boolean	
- split(String)	
∼ replaceAll (CharSequence, CharSequence)	

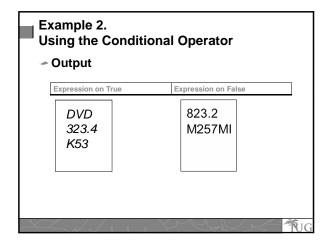












Example 2. Using the Conditional Operator

 You can also negate the boolean expression to test for the existence of a field

(!\$F{itemv}.equals("") ?

"<style isBold='TRUE' size='12'>" + \$F{itemv} +

"</style>"

: "")

Example 3. Using the split() method

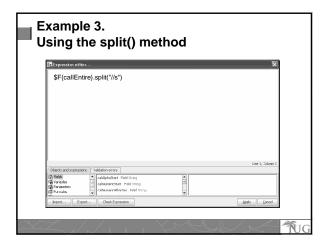
- split() method
 - Splits your string based on a delimiter you specify
 - Can use a text character or regex
 - Creates a list or array of smaller strings
 - $F{field}.split(",")$
 - These smaller strings can be accessed and printed out separately

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Example 3. Using the split() method

- Raw Data

Call Number 082 |aMYS PAT 2009



Example 3. Using the split() method

- Results in an array
- Each part assigned an index number, starting with '0'

Index	0	1	2
Data	MYS	PAT	2009

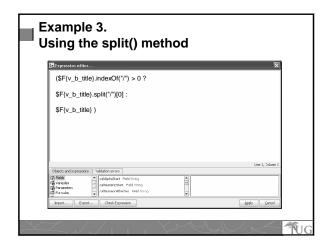
- \$F{callEntire}.split("//s")[0]

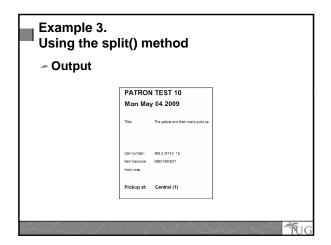
Example 3.

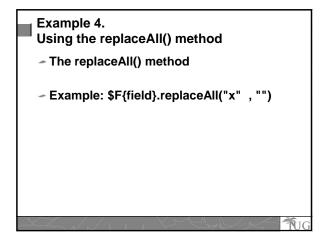
Using the split() method

- One of our libraries needed to shorten the title on their hold slips
- We used the split() method on the title field using the 'l' character as a delimiter
- Raw Data
 - Title: The police and their many publics / by Donald W. McEvoy.

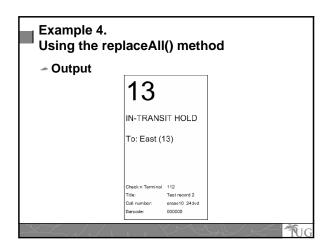
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Example 4. Using the replaceAll() method We wanted to place the base location code for the destination library on the top of our transit slips in large type - Example: '13' instead of 'East (13)'



Other Resources	
 Java.lang.String http://java.sun.com/j2se/1.5.0/docs/api/java/lang/String.html 	
Innovative Data Libraries - IGR (page # 107515)	
Online Documentation for iReport http://tinyurl.com/jug2009	
	 Java.lang.String http://java.sun.com/j2se/1.5.0/docs/api/java/lang/String.html Innovative Data Libraries IGR (page # 107515) Online Documentation for iReport

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