

Make It Fast, Make It Pretty

Doug Lane, BI Developer
University Physicians, Inc.



About Doug Lane

Twitter: @douglane4

LinkedIn: <http://www.linkedin.com/in/douglane4>

Blog: www.douglane.net

E-mail: douglane4@gmail.com



About Doug Lane

MCSE, MCTS

Web developer since 2000

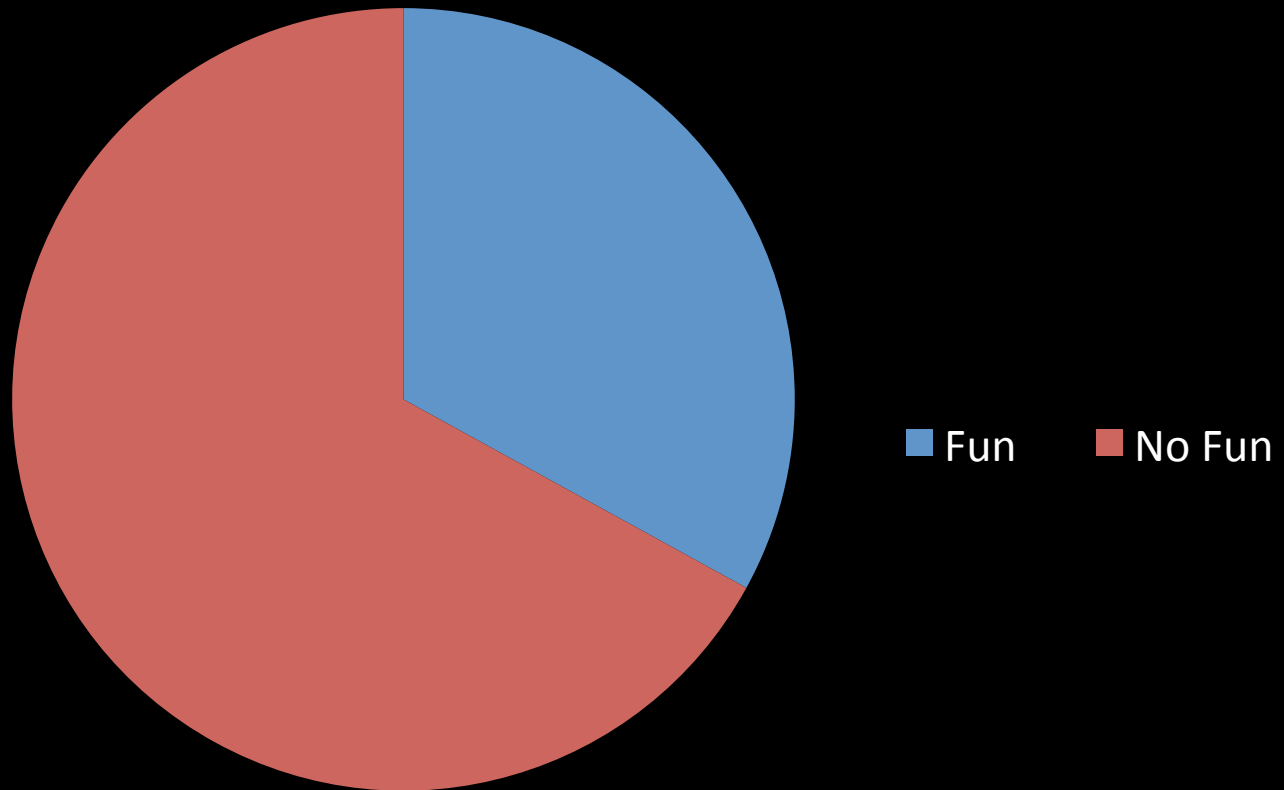
SQL developer since 2003

BI developer since 2007



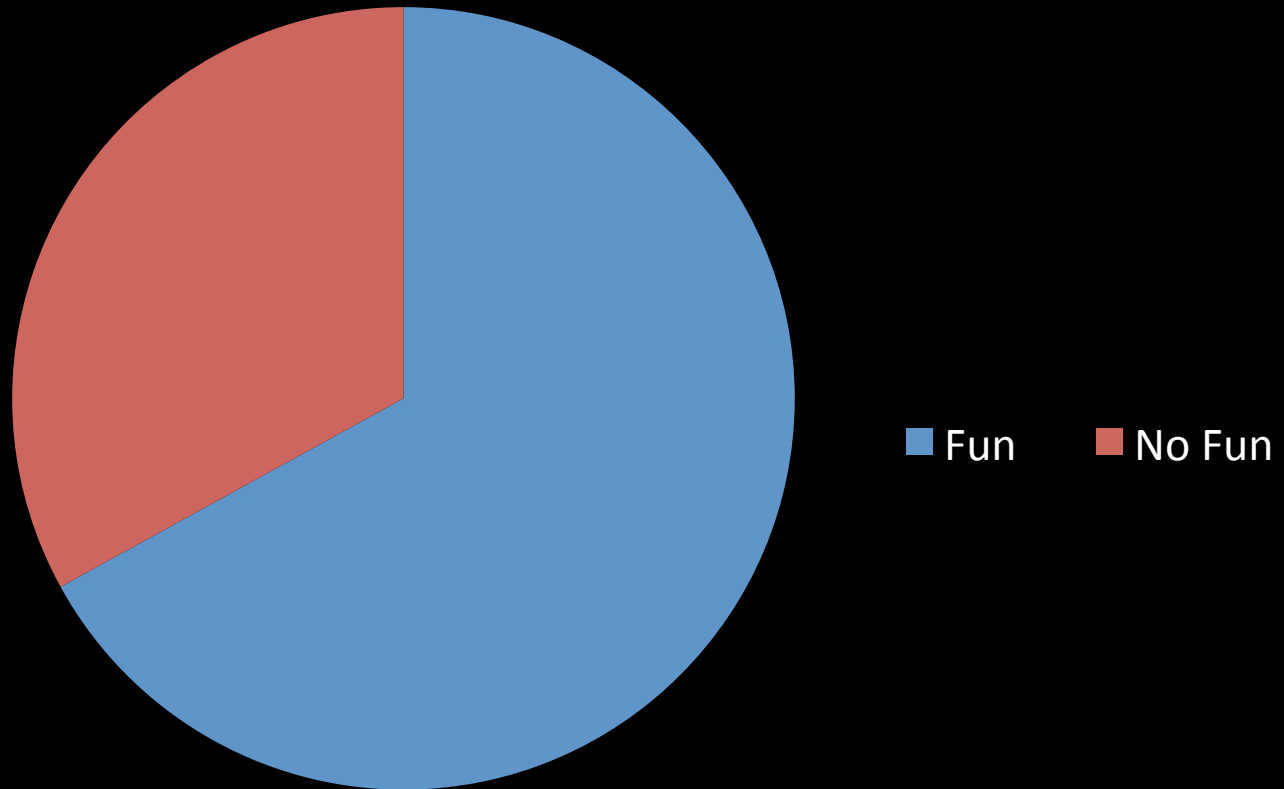
Goal for this session

% Report Writing Time



Goal for this session

% Report Writing Time



LASER RIFLE TROOPER

Code Name: FLASH



G.I. JOE

File Name: Gambello, Anthony S. SN: RA607432985

Primary Military Specialty: Infantry

Secondary Military Specialty: Electronics CBR

Birthplace: Lodi, California Grade: E-4

Flash is highly skilled in many aspects of electronic technology and is capable of equipment repair in the field. Specialized Education: Electronics School; Chemical School; Covert Electronics. Qualified Expert: M-16; M-1911A1; XMLR-1A (Shoulder-Fired Laser Rifle).

“Flash is methodical and persistent. Has an innate and unshakable faith in the order of the universe. He’s working on his Master’s degree in electronic engineering (nights).”



CONSTRUCTICON

DEVASTATOR

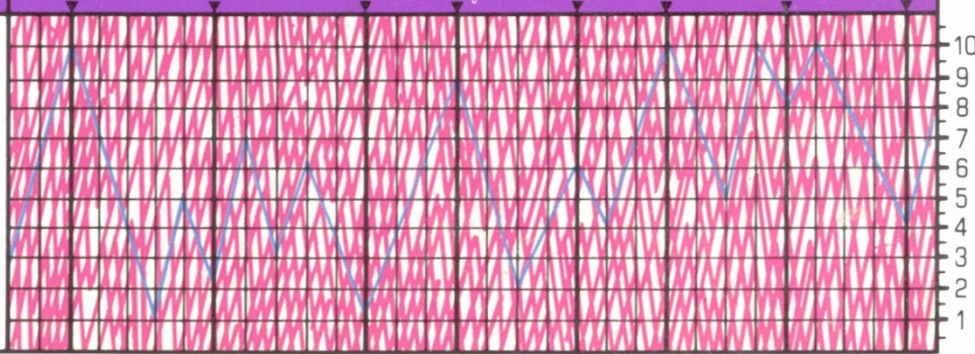


FUNCTION: WARRIOR

"Thinking and winning do not mix."

Awesome and terrifying, a bizarre combination of six Constructicons: Scrapper, Scavenger, Bonecrusher, Hook, Long Haul and Mixmaster. Pure brutality—sole purpose is to crush all in his path. His mind is a melding together of his 6 parts, but limited by their competing thoughts. Enormous height, incredible strength—can knock down a bridge with one punch. Has 10,000° C solar energy beam rifle. Slow, awkward, not too bright.

STRENGTH INTELLIGENCE SPEED ENDURANCE RANK COURAGE FIREPOWER SKILL



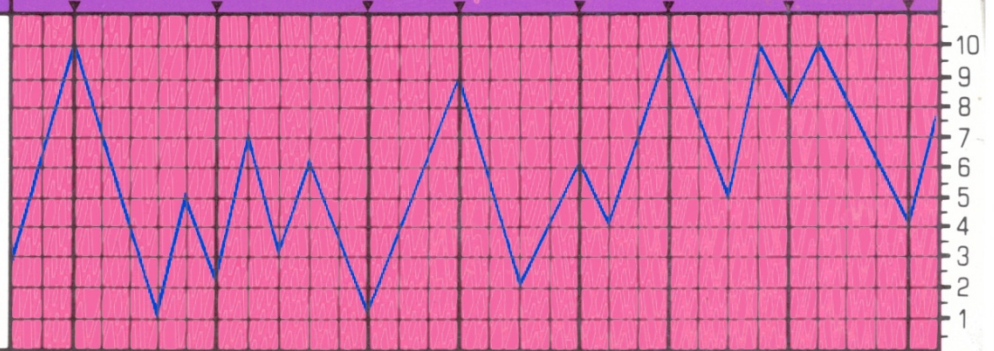
CONSTRUCTICON**DEVASTATOR**

FUNCTION: WARRIOR

"Thinking and winning do not mix."

Awesome and terrifying, a bizarre combination of six Constructicons: Scrapper, Scavenger, Bonecrusher, Hook, Long Haul and Mixmaster. Pure brutality—sole purpose is to crush all in his path. His mind is a melding together of his 6 parts, but limited by their competing thoughts. Enormous height, incredible strength—can knock down a bridge with one punch. Has 10,000° C solar energy beam rifle. Slow, awkward, not too bright.

STRENGTH INTELLIGENCE SPEED ENDURANCE RANK COURAGE FIREPOWER SKILL



PAUL MOLITOR

BREWERS • THIRD BASE

Height 6'0", Weight 175, Bats Right, Throws Right

Born 8-22-56, St. Paul, MN







Home Mequon, WI

FLEER

169

Yr. Club	Pct.	G	AB	R	H	2B	3B	HR	RBI	SB	BB	SO
77 Burlington	.346	64	228	52	79	12	0	8	50	14	47	25
78 Brewers	.273	125	521	73	142	26	4	6	45	30	19	54
79 Brewers	.322	140	584	88	188	27	16	9	62	33	48	48
80 Brewers	.304	111	450	81	137	29	2	9	37	34	48	48
81 Brewers	.267	64	251	45	67	11	0	2	19	10	25	29
82 Brewers	.302	160	666	136	201	26	8	19	71	41	69	93
83 Brewers	.270	152	608	95	164	28	6	15	47	41	59	74
84 Brewers	.217	13	46	3	10	1	0	0	6	1	2	8
85 Brewers	.297	140	576	93	171	28	3	10	48	21	54	80
86 Brewers	.281	105	437	62	123	24	6	9	55	20	40	81
87 Brewers	.353	118	465	114	164	41	5	16	75	45	69	67
ML Totals	.297	1128	4604	790	1367	241	50	95	465	276	433	582

© 1988 FLEER CORP. PHILA. 19141 PRINTED IN U.S.A.

AT THEIR BEST! MLB STAT BREAKDOWN	DAY	NIGHT	HOME	ROAD	
					
BATTING AVERAGE	.353	.352	.394	.312	
SLUGGING PERCENTAGE	.594	.554	.610	.521	
ON BASE AVERAGE	.449	.433	.470	.406	



66

Our Agenda

- Make It Fast, Part 1: Faster development time
- Make It Fast, Part 2: Faster performance
- Make It Pretty: Design methods for attractive reports



Make It Fast, Part 1

Three ways to speed up your
development time



Make It Fast, Part 1

1. Use the [F4]ce, Luke
2. Put a hex on your colors
3. Timing is everything

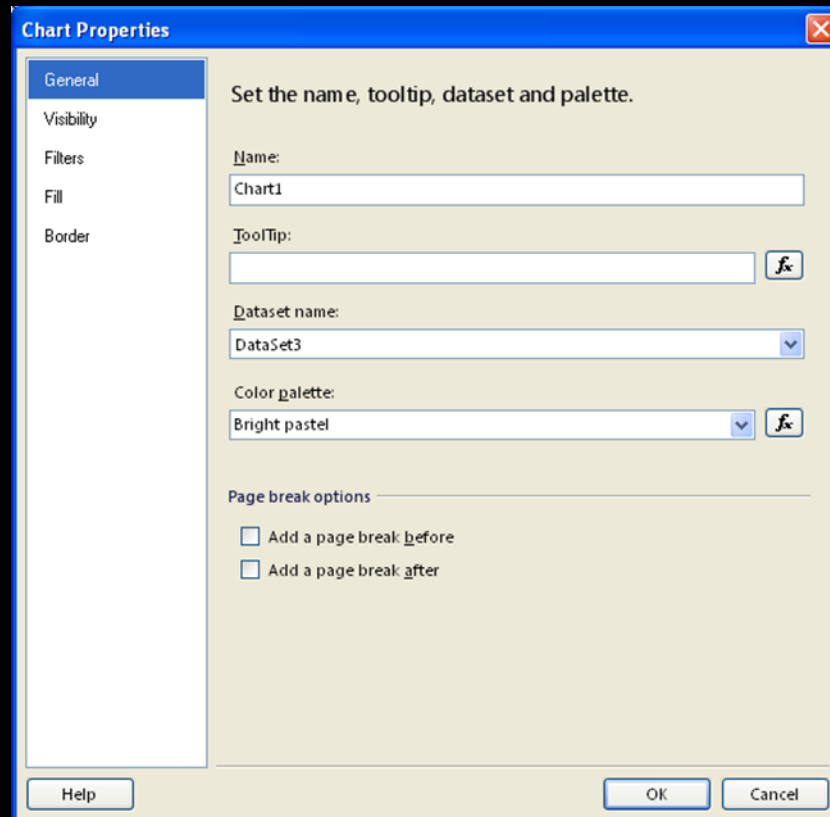


Make It Fast, Part 1

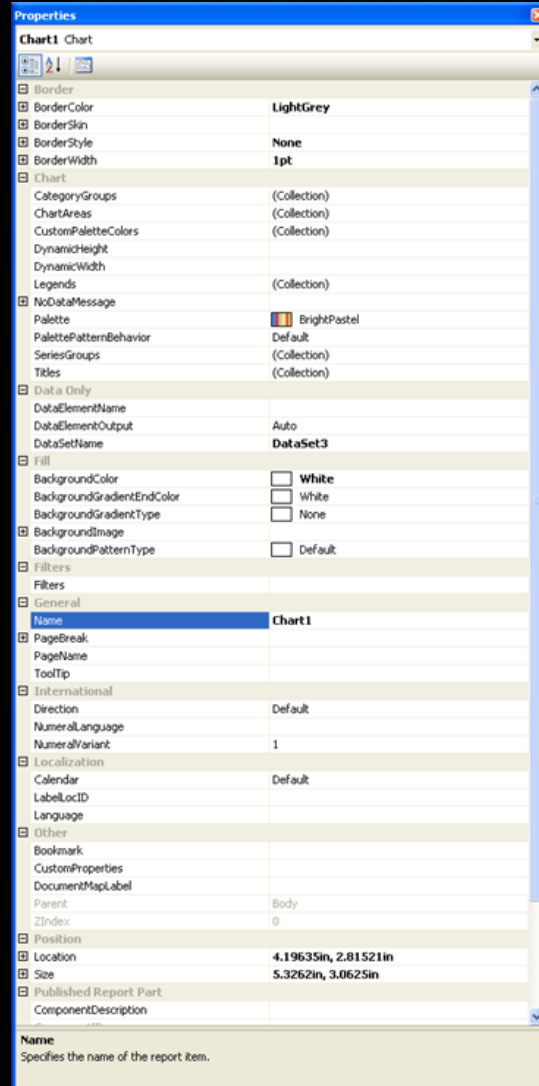
1. Use the [F4]ce, Luke
2. Put a hex on your colors
3. Timing is everything



Use the [F4]ce, Luke



Use the [F4]ce, Luke



Use the [F4]ce, Luke

	F4	Right-click -> Properties...
Change properties of multiple objects	YES	NO
Set NoDataMessage	YES	NO
Adjust an object's size/location with precision	YES	NO
Quickly select a given object	YES	NO
Adjust point width	YES	NO
Adjust white space around a chart area	YES	NO



Use the [F4]ce, Luke

	F4	Right-click -> Properties...
Change properties of multiple objects	YES	NO
Set NoDataMessage	YES	NO
Adjust an object's size/location with precision	YES	NO
Quickly select a given object	YES	NO
Adjust point width	YES	NO
Adjust white space around a chart area	YES	NO



Properties

Report

PctUsed Text Box

Report

RunTime2 Text Box

Tablix2 Tablix

Textbox10 Text Box

Textbox12 Text Box

Textbox14 Text Box

Textbox24 Text Box

Textbox26 Text Box

Textbox53 Text Box

Textbox6 Text Box

Textbox8 Text Box

Width	468pt
Localization	
DescriptionLocID	
Language	
Other	
AutoRefresh	0
ConsumeContainerWhitespace	False
CustomProperties	
InitialPageName	
Page	
BackgroundColor	<input type="checkbox"/> Automatic
BackgroundImage	
BorderColor	Black
BorderStyle	None

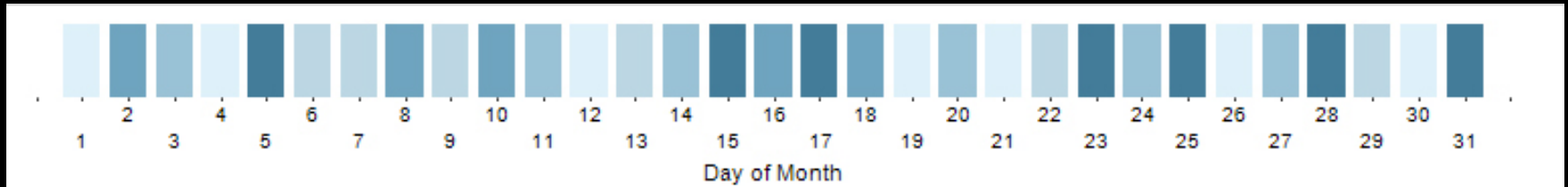


Use the [F4]ce, Luke

	F4	Right-click -> Properties...
Change properties of multiple objects	YES	NO
Set NoDataMessage	YES	NO
Adjust an object's size/location with precision	YES	NO
Quickly select a given object	YES	NO
Adjust point width	YES	NO
Adjust white space around a chart area	YES	NO



Use the [F4]ce, Luke



66

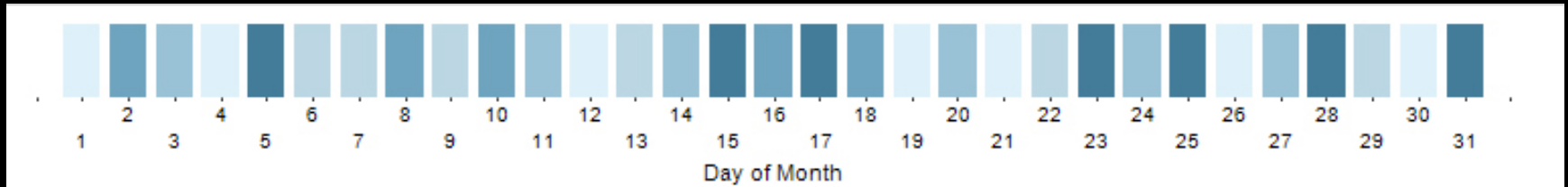
Use the [F4]ce, Luke

General	
CustomAttributes	
DrawingStyle	Default
DrawSideBySide	Auto
EmptyPointValue	Average
HistogramSegmentInterval	20
HistogramSegmentInterval	0
HistogramShowPercentOnS	True
LabelStyle	Auto
MaxPixelPointWidth	0
MinPixelPointWidth	0
PixelPointWidth	0
PointWidth	0.8
ShowColumnAs	Normal
UserDefined	

CustomAttributes
Specifies series custom attributes.

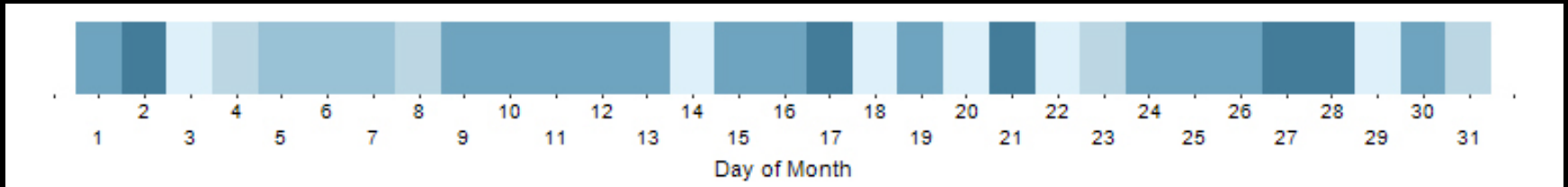


Use the [F4]ce, Luke



66

Use the [F4]ce, Luke



Use the [F4]ce, Luke

	F4	Right-click -> Properties...
Change properties of multiple objects	YES	NO
Set NoDataMessage	YES	NO
Adjust an object's size/location with precision	YES	NO
Quickly select a given object	YES	NO
Adjust point width	YES	NO
Adjust white space around a chart area	YES	NO



Make It Fast, Part 1

1. Use the [F4]ce, Luke
2. Put a hex on your colors
3. Timing is everything



Put a hex on your colors



Source: <http://www.flickr.com/photos/drstarbuck/3945969200>



Put a hex on your colors



Source: <http://www.flickr.com/photos/naotakem/3652136681>





Source: <http://www.flickr.com/photos/gogdog/4335876377>



66

Adventure Works

BI Systems Dashboard

Thursday, February 03, 2011 12:59:10 PM

Job History

Job	Run Date	Run Time	Duration
● Backup.Subplan_1	2/3/2011	1:00:00 AM	00:03:48
● Export D3 Specialty Code Delta	2/3/2011	4:00:00 AM	00:00:01
● Import Dictionary Files	2/3/2011	4:00:00 AM	00:00:01
● Log SA Audit Sums	2/3/2011	4:30:00 AM	00:00:13
● Record Metrics	2/3/2011	4:00:00 AM	00:00:01
● Top SecretBackup.Subplan_1	2/3/2011	12:00:01 AM	00:00:07

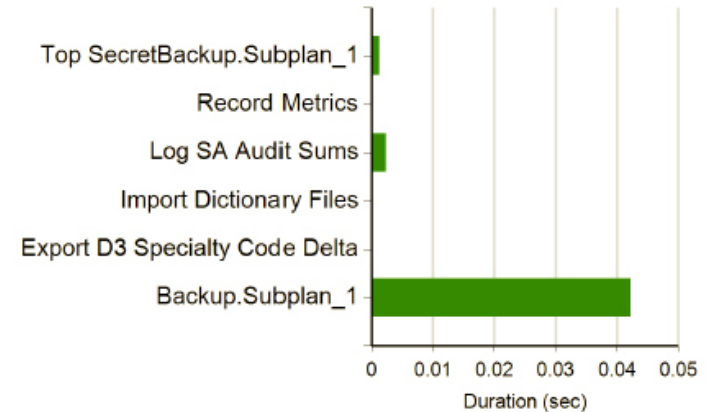
Disabled Jobs

No disabled jobs found

Fixed Drive Space (as of 2/3/2011 4:00:00 AM)

Drive	Free GB	Total GB	Fill	Fill %
● C	17.6	40.0		56.1%
● E	10.7	20.0		46.7%
● F	37.0	50.0		26.1%
● G	868.9	1,000.0		13.1%
● K	21.2	25.0		15.1%
● P	137.8	200.0		31.1%

Job Execution Times



Find and Replace [X]

Quick Find [v] Quick Replace [v]

Find what:
Green [v] [▶]

Replace with:
Black [v] [▶]

Look in:
Current Document [v]

Find options

- Match case
- Match whole word
- Search up
- Search hidden text
- Use:
Regular expressions [v]

[Find Next] [Replace] [Replace All]



Adventure Works

BI Systems Dashboard

Thursday, February 03, 2011 1:01:55 PM

Job History

Job	Run Date	Run Time	Duration
● Backup.Subplan_1	2/3/2011	1:00:00 AM	00:03:48
● Export D3 Specialty Code Delta	2/3/2011	4:00:00 AM	00:00:01
● Import Dictionary Files	2/3/2011	4:00:00 AM	00:00:01
● Log SA Audit Sums	2/3/2011	4:30:00 AM	00:00:13
● Record Metrics	2/3/2011	4:00:00 AM	00:00:01
● Top SecretBackup.Subplan_1	2/3/2011	12:00:01 AM	00:00:07

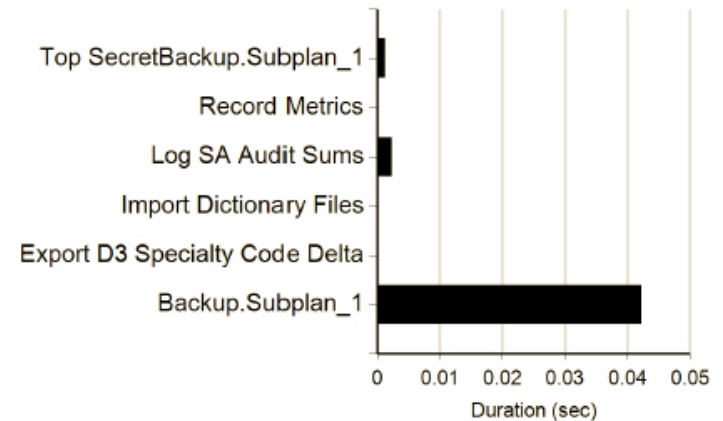
Disabled Jobs

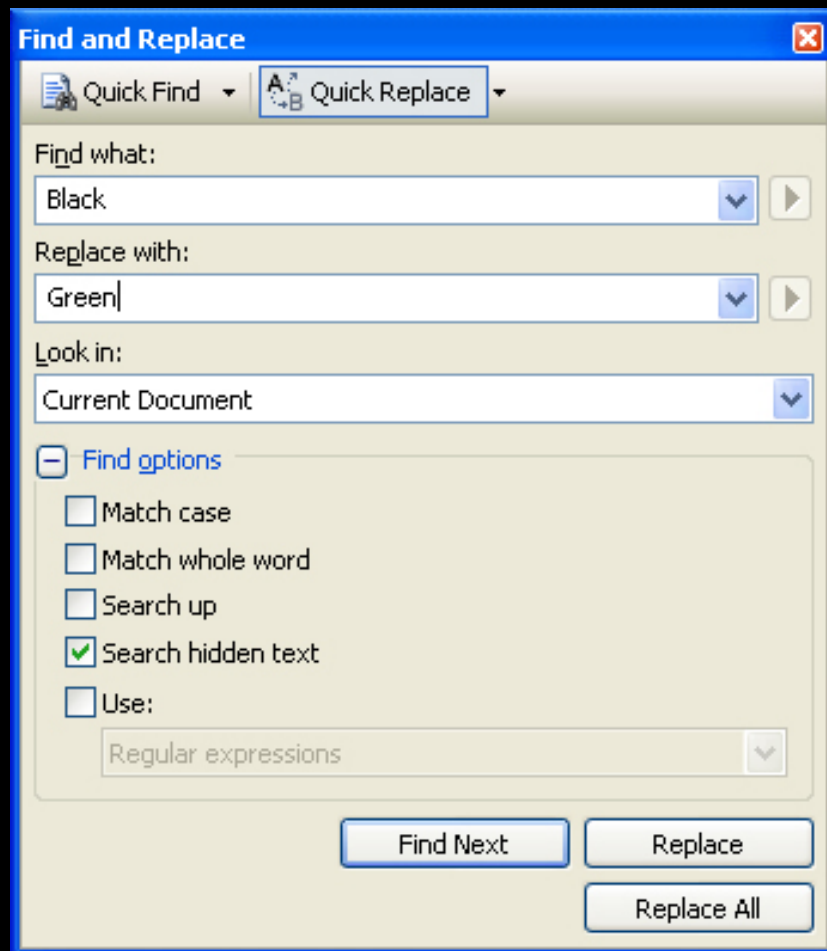
No disabled jobs found

Fixed Drive Space (as of 2/3/2011 4:00:00 AM)

Drive	Free GB	Total GB	Fill	Fill %
● C	17.6	40.0		56.1%
● E	10.7	20.0		46.7%
● F	37.0	50.0		26.1%
● G	868.9	1,000.0		13.1%
● K	21.2	25.0		15.1%
● P	137.8	200.0		31.1%

Job Execution Times





Adventure Works

BI Systems Dashboard

Thursday, February 03, 2011 1:12:03 PM

Job History

Job	Run Date	Run Time	Duration
● Backup.Subplan_1	2/3/2011	1:00:00 AM	00:03:48
● Export D3 Specialty Code Delta	2/3/2011	4:00:00 AM	00:00:01
● Import Dictionary Files	2/3/2011	4:00:00 AM	00:00:01
● Log SA Audit Sums	2/3/2011	4:30:00 AM	00:00:13
● Record Metrics	2/3/2011	4:00:00 AM	00:00:01
● Top SecretBackup.Subplan_1	2/3/2011	12:00:01 AM	00:00:07

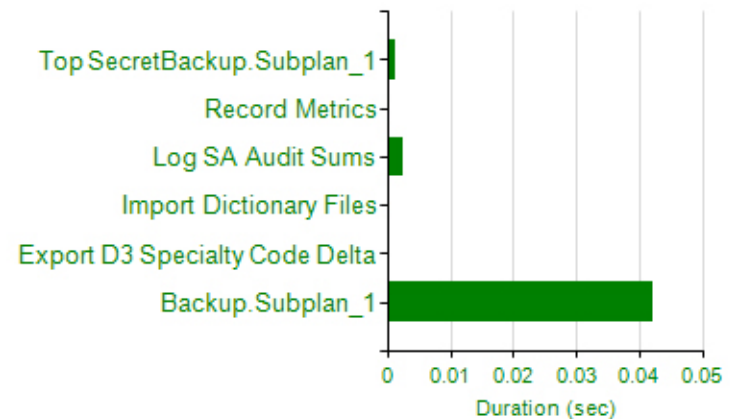
Disabled Jobs

No disabled jobs found

Fixed Drive Space (as of 2/3/2011 4:00:00 AM)

Drive	Free GB	Total GB	Fill	Fill %
● C	17.6	40.0		56.1%
● E	10.7	20.0		46.7%
● F	37.0	50.0		26.1%
● G	868.9	1,000.0		13.1%
● K	21.2	25.0		15.1%
● P	137.8	200.0		31.1%

Job Execution Times



16 named colors using “Green”

DarkGreen, DarkOliveGreen, DarkSeaGreen,
ForestGreen, Green, GreenYellow,
LawnGreen, LightGreen, LightSeaGreen,
LimeGreen, MediumSeaGreen,
MediumSpringGreen, PaleGreen, SeaGreen,
SpringGreen, YellowGreen



22 Blue

16 Green

6 Red

6 White

17 Dark

13 Light

7 Gray



Stored Procedure



Sto#FF0000 Procedure





One or more errors encountered while loading the designer. The errors are listed below.

Deserialization failed: MediumSeaBlack is not a valid color. Line 172, position 58.

[Edit code](#)



Put a hex on your colors

- Prevents Find & Replace from carpet-bombing
- Choices abound:
 - 16M HTML colors
 - .0000141M .NET colors
- If you choose to use named colors:
 - Don't mix theme colors with meaningful colors.
 - Don't mix "Red" with Find & Replace.



Make It Fast, Part 1

1. Use the [F4]ce, Luke
2. Put a hex on your colors
3. Timing is everything



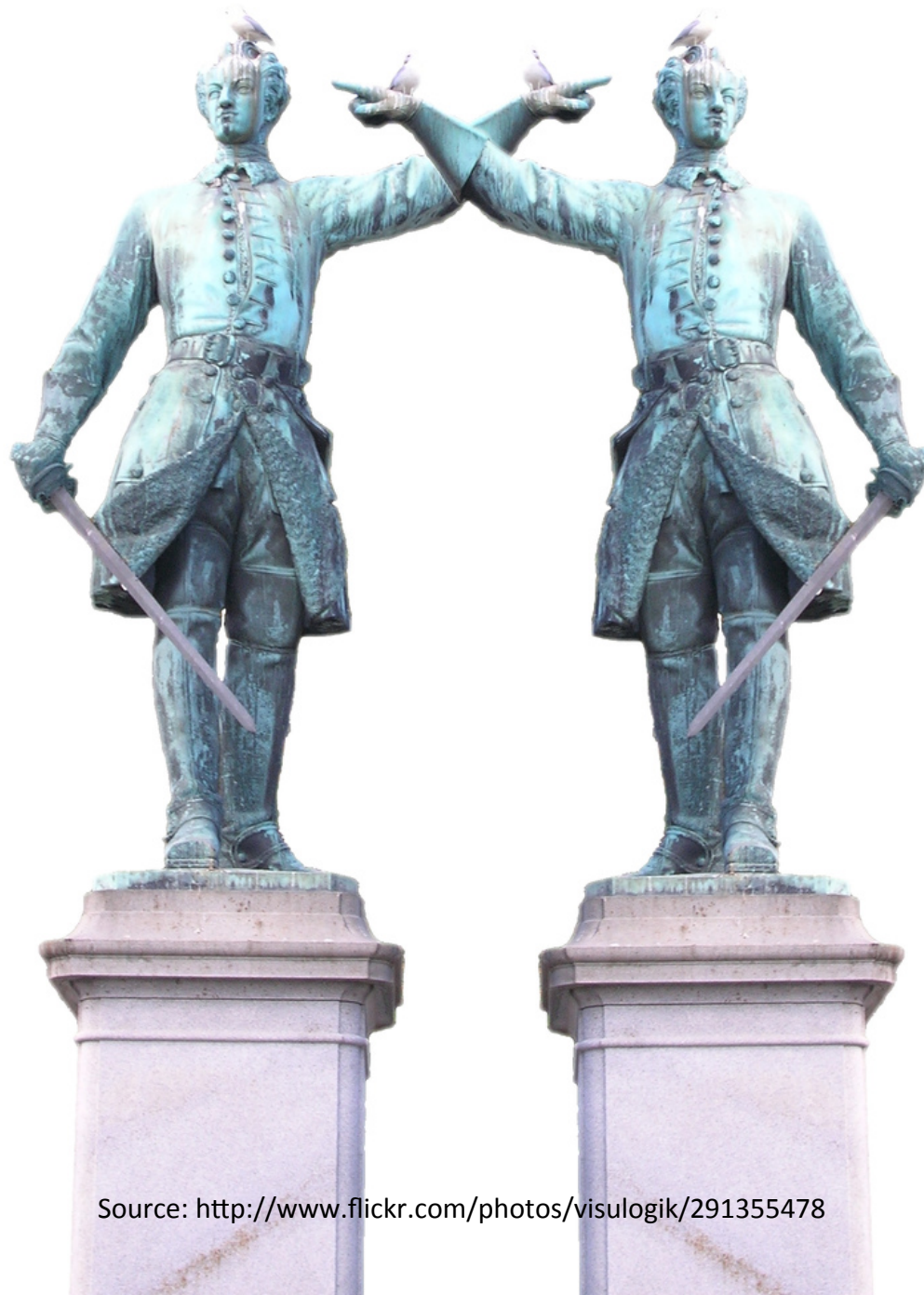
Timing is everything



<http://www.chicagonow.com/blogs/on-down-the-line-notre-dame-football/2010/08/notre-dame-in-the-espn-power-rankings-except-not-really.html>



66



Source: <http://www.flickr.com/photos/visulogik/291355478>



66

ExecutionLog2 in SQL 2008 ExecutionLog3 in SQL 2008 R2

	ReportPath	TimeDataRetrieval	TimeProcessing	TimeRendering	ByteCount	RowCount
1	/FedEarmarks	125574	899	100	353024	5320
2	/FedEarmarks	124851	891	100	351722	5320
3	/StateBudget	1805	12	5998	22570	854
4	/StateBudget	1801	12	5998	22570	854
5	/StateBudget	1805	12	5996	22570	854
6	/StateBudget	1841	12	5998	22570	854
7	/NationalParkVolume	660	12	8141	425315	111
8	/TravelBudget	2676	12	3005	153993	75
9	/EmployeeReimbursements	1583	574	44	14960	75
10	/EmployeeReimbursements	2144	566	44	14960	75
11	/EmployeeReimbursements	1586	574	44	14960	75
12	/PublicServicesStats	48	12	9	7072	18
13	/StateBudget	1819	0	0	0	0
14	/TravelBudget	2676	0	0	0	0
15	/EmployeeReimbursements	2207	0	0	0	0
16	/FiscalDashboard	45407	0	0	0	0



ExecutionLog3

TimeDataRetrieval

Opening connections

Reading data rows

TimeProcessing

Report processing bootstrap

Tablix processing (grouping/
sorting/
aggregating/subreports)

TimeRendering

Paging

Time spent in renderer

On-demand expressions

Source: <http://blogs.msdn.com/b/robertbruckner/archive/2009/01/05/executionlog2-view.aspx>



ExecutionLog3

TimeDataRetrieval

Opening connections

Reading data rows

TimeProcessing

Report processing bootstrap

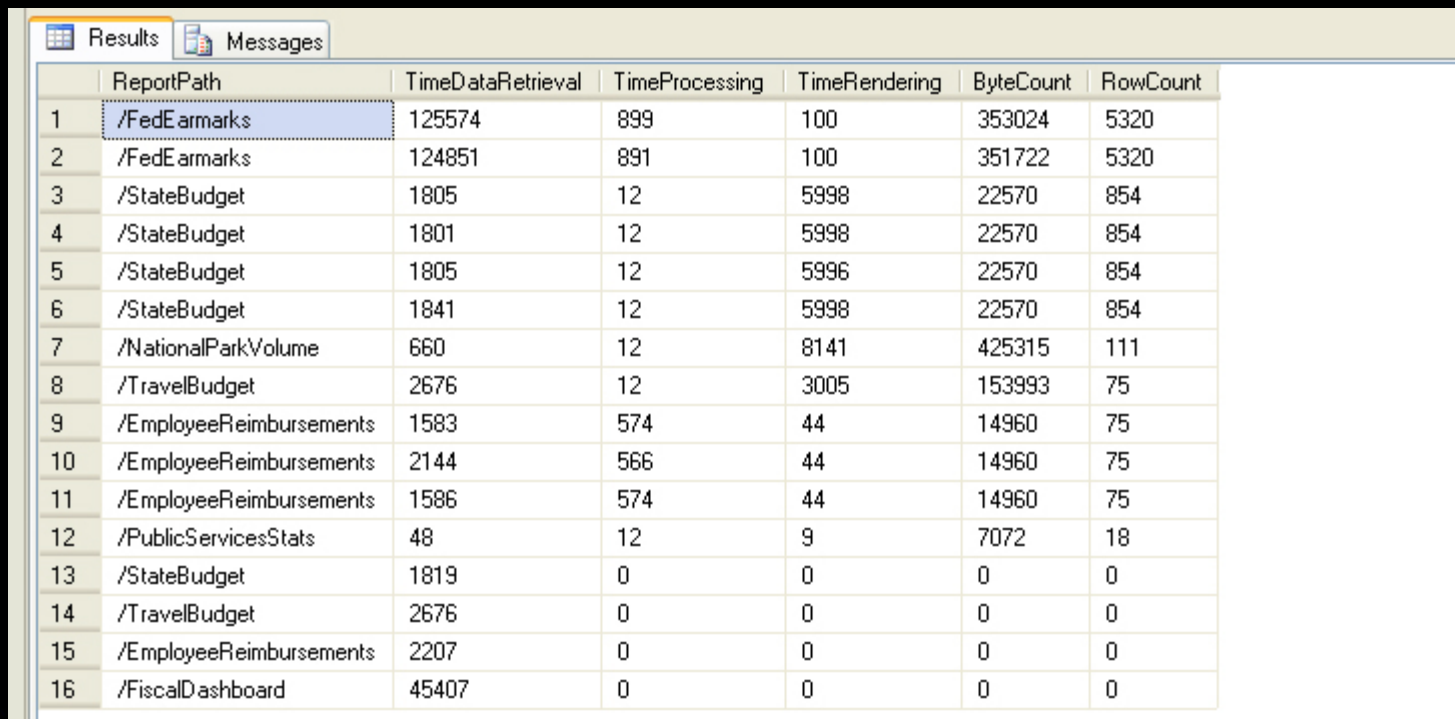
Tablix processing (grouping/
sorting/
aggregating/subreports)

TimeRendering

Paging

Time spent in renderer

On-demand expressions



	ReportPath	TimeDataRetrieval	TimeProcessing	TimeRendering	ByteCount	RowCount
1	/FedEarmarks	125574	899	100	353024	5320
2	/FedEarmarks	124851	891	100	351722	5320
3	/StateBudget	1805	12	5998	22570	854
4	/StateBudget	1801	12	5998	22570	854
5	/StateBudget	1805	12	5996	22570	854
6	/StateBudget	1841	12	5998	22570	854
7	/NationalParkVolume	660	12	8141	425315	111
8	/TravelBudget	2676	12	3005	153993	75
9	/EmployeeReimbursements	1583	574	44	14960	75
10	/EmployeeReimbursements	2144	566	44	14960	75
11	/EmployeeReimbursements	1586	574	44	14960	75
12	/PublicServicesStats	48	12	9	7072	18
13	/StateBudget	1819	0	0	0	0
14	/TravelBudget	2676	0	0	0	0
15	/EmployeeReimbursements	2207	0	0	0	0
16	/FiscalDashboard	45407	0	0	0	0



ExecutionLog3

TimeDataRetrieval

Opening connections

Reading data rows

TimeProcessing

Report processing bootstrap

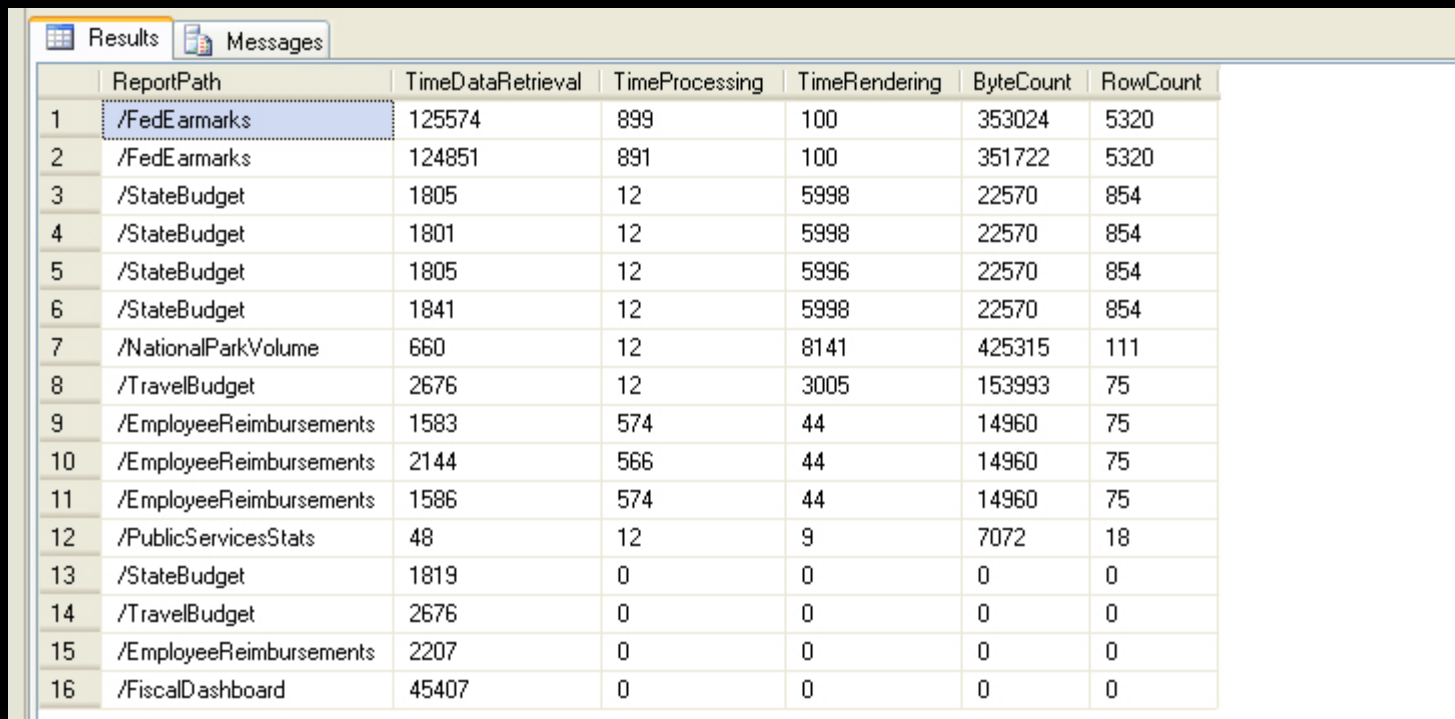
Tablix processing (grouping/
sorting/
aggregating/subreports)

TimeRendering

Paging

Time spent in renderer

On-demand expressions



	ReportPath	TimeDataRetrieval	TimeProcessing	TimeRendering	ByteCount	RowCount
1	/FedEarmarks	125574	899	100	353024	5320
2	/FedEarmarks	124851	891	100	351722	5320
3	/StateBudget	1805	12	5998	22570	854
4	/StateBudget	1801	12	5998	22570	854
5	/StateBudget	1805	12	5996	22570	854
6	/StateBudget	1841	12	5998	22570	854
7	/NationalParkVolume	660	12	8141	425315	111
8	/TravelBudget	2676	12	3005	153993	75
9	/EmployeeReimbursements	1583	574	44	14960	75
10	/EmployeeReimbursements	2144	566	44	14960	75
11	/EmployeeReimbursements	1586	574	44	14960	75
12	/PublicServicesStats	48	12	9	7072	18
13	/StateBudget	1819	0	0	0	0
14	/TravelBudget	2676	0	0	0	0
15	/EmployeeReimbursements	2207	0	0	0	0
16	/FiscalDashboard	45407	0	0	0	0





Source: *The Phantom of the Opera* (1925)



Make It Fast, Part 1

1. Use the [F4]ce, Luke
2. Put a hex on your colors
3. Timing is everything



Make It Fast, Part 2

Two ways to speed up your
execution time



Make It Fast, Part 2

1. Recite, don't rewrite
2. 15 pieces of flair: the minimum necessary



Make It Fast, Part 2

1. Recite, don't rewrite
2. 15 pieces of flair: the minimum necessary





Source: <http://www.flickr.com/photos/thelastminute/3858041246/>



66

Make It Fast, Part 2

1. Recite, don't rewrite
2. 15 pieces of flair: the minimum necessary



15 pieces of flair: the minimum necessary



Source: <http://www.flickr.com/photos/lifeofpei/2373878082/>



15 pieces of flair: the minimum necessary

- If they group by, then GROUP BY.
- Drill-down into a gutter, not a gulf.
- Consider the output and its consumption.
- Remember the question and stick to its answer.





Source: <http://www.flickr.com/photos/sis/62037681>



66

Make It Fast, Part 2

1. Recite, don't rewrite
2. 15 pieces of flair: the minimum necessary



Make It Pretty

Three common problems with appearances, and how to solve them



Make It Pretty

1. Table for two
2. Resolve border disputes
3. Die, zombie pages! Die!



Make It Pretty

1. Table for two
2. Resolve border disputes
3. Die, zombie pages! Die!



```
<table>
  <tr>
    <td>Left<td>
    <td>Right<td>
  </tr>
</table>
```



```
<table>
  <tr>
    <td>
      <table>
        <tr>
          <td>Left</td>
        </tr>
      </table>
    </td>
    <td>
      <table>
        <tr>
          <td>Right </td>
        </tr>
      </table>
    </td>
  </tr>
</table>
```



George Foreman, Inc.

BI Systems Dashboard

«Expr»

Job History

Job	Run Date	Run Time	Duration
[JobName]	[RunDate]	[RunTime]	[Duration]

Disabled Jobs

Job	Disable Date
[JobName]	[DisabledDate]

Fixed Drive Space «Expr»

Drive	Free GB	Total GB	Fill	Fill %
[DriveLetterSpace]	[FreeSpace]	[TotalSpace]	<input type="text"/>	[PctUsed]

DB File Sizes

File Name	Type	Total GB	Used GB	Fill	Free %
[DBFileName]	[DBFileType]	[DBFileSize]	[UsedSpace]	<input type="text"/>	[PctFree]

Health Panel

[Diag]

Checksum

FY [Fiscal] [Fiscal]

Contact Info Changes (last 7 days)

User	Address	Email
User	[CFTECT]	[PSDCodeCt]



George Foreman, Inc.

BI Systems Dashboard

Monday, February 07, 2011 9:00:22 AM

Job History

Job	Run Date	Run Time	Duration
● Daily Flat File Backups.Subplan_1	2/7/2011	12:00:00 AM	00:00:05
● Export D3 Specialty Code Delta	2/7/2011	4:00:00 AM	00:00:00
HPDDiagnostics: Record Metrics	2/7/2011	4:00:00 AM	00:00:00
● HPDWarehouse: Import Dictionary Files	2/7/2011	4:00:00 AM	00:00:00
HPDWarehouse: Log SA Audit Sums	2/7/2011	4:30:00 AM	00:00:12

Disabled Jobs

Job	Disable Date
● HPDWarehouse Backup.Subplan_1	2/4/2011 11:10:48 AM
● HPDItranet Backup.Subplan_1	2/4/2011 11:10:42 AM

Fixed Drive Space (as of 2/7/2011 4:00:00 AM)

Drive	Free GB	Total GB	Fill	Fill %
C	17.8	40.0		56.1%
E	10.7	20.0		46.7%
F	37.0	50.0		26.1%
G	868.9	1,000.0		13.1%
K	21.2	25.0		15.0%
P	137.3	200.0		31.3%

DB File Sizes

File Name	Type	Total GB	Used GB	Fill	Free %
HPDWarehouse	Data	20.8	16.71		19.5%
● HPDWarehouse_log	Log	.0	0.00		100.0%

Health Panel

- Calc RVU = Stored RVU
- E&M Ratios
- Impute Trend: Total RVU
- Impute Trend: Work RVU
- Imputes Missing
- RVU Ratios
- Total RVU Trend
- Work RVU Trend

Checksum

FY	Tue	Wed	Thu	Fri	Sat	Sun	Mon
2011	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2010	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Contact Info Changes (last 7 days)

User	Address	Email
User	21	
User		1
User	23	



George Foreman, Inc.

BI Systems Dashboard

Monday, February 07, 2011 8:56:01 AM

Job History

Job	Run Date	Run Time	Duration
● Daily Flat File Backups.Subplan_1	2/7/2011	12:00:00 AM	00:00:05
● Export D3 Specialty Code Delta	2/7/2011	4:00:00 AM	00:00:00
HPDDiagnostics: Record Metrics	2/7/2011	4:00:00 AM	00:00:00
● HPDWarehouse: Import Dictionary Files	2/7/2011	4:00:00 AM	00:00:00
HPDWarehouse: Log SA Audit Sums	2/7/2011	4:30:00 AM	00:00:12

Disabled Jobs

Job	Disable Date
● HPDWarehouse Backup.Subplan_1	2/4/2011 11:10:46 AM
● HPDIntranet Backup.Subplan_1	2/4/2011 11:10:42 AM

Fixed Drive Space (as of 2/7/2011 4:00:00 AM)

Drive	Free GB	Total GB	Fill	Fill %
C	17.6	40.0		56.1%
E	10.7	20.0		46.7%
F	37.0	50.0		26.1%
G	868.9	1,000.0		13.1%
K	21.2	25.0		15.0%
P	137.3	200.0		31.3%

DB File Sizes

File Name	Type	Total GB	Used GB	Fill	Free %
HPDWarehouse	Data	20.8	16.71		19.5%
● HPDWarehouse_log	Log	.0	0.00		100.0%

Health Panel

- Calc RVU = Stored RVU
- E&M Ratios
- Impute Trend: Total RVU
- Impute Trend: Work RVU
- Imputes Missing
- RVU Ratios
- Total RVU Trend
- Work RVU Trend

Checksum

FY	Tue	Wed	Thu	Fri	Sat	Sun	Mon
2011	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2010	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Contact Info Changes (last 7 days)

User	Address	Email
User	21	
User		1
User	23	



Make It Pretty

1. Table for two
2. Resolve border disputes
3. Die, zombie pages! Die!



Rules of Diplomacy

1. The object border will always take precedence.
2. A non-solid border will expose the border beneath it if one exists.
3. The bottom and right borders belong to the child group, the upper and left borders belong to the parent group. Mostly.
4. If two parent groups share a border, the one added last comes out on top.



Border Disputes

Column color last

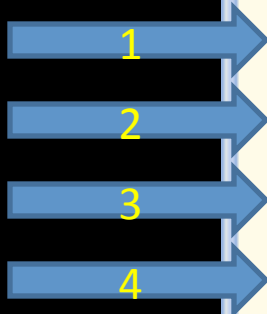
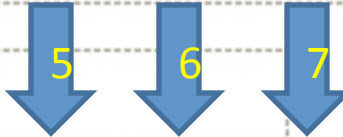
Name	H	Col	F
H	HH		HF
«Expr»	H	[Sum(v	F
F	FH		FF

Name	H	Col	F
H	HH		HF
«Expr»	H	[Sum(v	F
F	FH		FF



Border Disputes

Column color last



Name	H	Col	F
H	HH		HF
«Expr»	H	[Sum(vi	F
F	FH		FF

Name	H	Col	F
H	HH		HF
«Expr»	H	[Sum(vi	F
F	FH		FF



Column color last

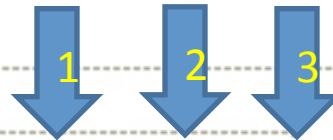
Name	H	Col	Col	Col	Col	Col	F	H	Col	Col	Col	Col	Col	F
H	HH						HF	HH						HF
Region 10	H	0	0	0	0	0	F	H	0	0	0	1	0	F
Region 30	H	0	0	0	0	0	F	H	0	0	0	1	0	F
Region 40	H	0	0	0	0	0	F	H	0	0	0	1	0	F
Region 50	H	0	0	0	0	0	F	H	0	0	0	1	0	F
Region 60	H	0	0	0	0	0	F	H	0	0	0	1	0	F
F	FH						FF	FH						FF
H	HH						HF	HH						HF
Region 70	H	0	0	16	16	1	F	H	0	7	325	474	12	F
Region 90	H	1	44	130	82	14	F	H	0	8	481	749	86	F
Region 100	H	0	0	0	0	0	F	H	0	0	1	2	1	F
Region 110	H	0	0	0	0	0	F	H	0	0	7	24	5	F
Region 120	H	0	0	0	0	0	F	H	0	0	0	5	1	F
F	FH						FF	FH						FF



Border Disputes

Column color last

Name	H	Col	F
H	HH		HF
«Expr»	H	[Sum(vi	F
F	FH		FF



4	Name	H	Col	F
5	H	HH		HF
6	«Expr»	H	[Sum(vi	F
7	F	FH		FF



Row color last

Name	H	Col	Col	Col	Col	Col	F	H	Col	Col	Col	Col	Col	F
H	HH						HF	HH						HF
Region 10	H	0	0	0	0	0	F	H	0	0	0	1	0	F
Region 30	H	0	0	0	0	0	F	H	0	0	0	1	0	F
Region 40	H	0	0	0	0	0	F	H	0	0	0	1	0	F
Region 50	H	0	0	0	0	0	F	H	0	0	0	1	0	F
Region 60	H	0	0	0	0	0	F	H	0	0	0	1	0	F
F	FH						FF	FH						FF
H	HH						HF	HH						HF
Region 70	H	0	0	16	16	1	F	H	0	7	325	474	12	F
Region 90	H	1	44	130	82	14	F	H	0	8	481	749	86	F
Region 100	H	0	0	0	0	0	F	H	0	0	1	2	1	F
Region 110	H	0	0	0	0	0	F	H	0	0	7	24	5	F
Region 120	H	0	0	0	0	0	F	H	0	0	0	5	1	F
F	FH						FF	FH						FF



Column color last

Name	H	Col	Col	Col	Col	Col	F	H	Col	Col	Col	Col	Col	F
H	HH						HF	HH						HF
Region 10	H	0	0	0	0	0	F	H	0	0	0	1	0	F
Region 30	H	0	0	0	0	0	F	H	0	0	0	1	0	F
Region 40	H	0	0	0	0	0	F	H	0	0	0	1	0	F
Region 50	H	0	0	0	0	0	F	H	0	0	0	1	0	F
Region 60	H	0	0	0	0	0	F	H	0	0	0	1	0	F
F	FH						FF	FH						FF
H	HH						HF	HH						HF
Region 70	H	0	0	16	16	1	F	H	0	7	325	474	12	F
Region 90	H	1	44	130	82	14	F	H	0	8	481	749	86	F
Region 100	H	0	0	0	0	0	F	H	0	0	1	2	1	F
Region 110	H	0	0	0	0	0	F	H	0	0	7	24	5	F
Region 120	H	0	0	0	0	0	F	H	0	0	0	5	1	F
F	FH						FF	FH						FF



Make It Pretty

1. Table for two
2. Resolve border disputes
3. Die, zombie pages! Die!





Source: <http://www.flickr.com/photos/sergemelki/2612516723>



66



Source: *The Phantom of the Opera* (1925)



Border Disputes

Column color last

	Column color last	1							2						
Calc	Name	H	99201	99202	99203	99204	99205	F	H	99211	99212	99213	99214	99215	F
Pct	H	HH						HF	HH						HF
	George Foreman	H	1	0	2	0	0	F	H	0	0	3	0	0	F
	F	HF						FF	HF						FF
Vol	H	HH						HF	HH						HF
	George Foreman	H	1	1	95	9	0	F	H	1	4	334	4	0	F
	F	HF						FF	HF						FF

Row color last

		1							2						
Method	Provider Name	H	99201	99202	99203	99204	99205	F	H	99211	99212	99213	99214	99215	F
Pct	H	HH						HF	HH						HF
	George Foreman	H	1	0	2	0	0	F	H	0	0	3	0	0	F
	F	HF						FF	HF						FF
Vol	H	HH						HF	HH						HF
	George Foreman	H	1	1	95	9	0	F	H	1	4	334	4	0	F
	F	HF						FF	HF						FF



Border Disputes

Column color last

	Column color last	1														2
Cdc	Name	H	99201	99202	99203	99204	99205	F	H	99211	99212	99213	99214	99215	F	
Pct	H	HH						HF	HH						HF	
	George Foreman	H	1	0	2	0	0	F	H	0	0	3	0	0	F	
	F	HF						FF	HF						FF	
Vol	H	HH						HF	HH						HF	
	George Foreman	H	1	1	95	9	0	F	H	1	4	334	4	0	F	
	F	HF						FF	HF						FF	

Row color last

	Row color last	1														2
Method	Provider Name	H	99201	99202	99203	99204	99205	F	H	99211	99212	99213	99214	99215	F	
Pct	H	HH						HF	HH						HF	
	George Foreman	H	1	0	2	0	0	F	H	0	0	3	0	0	F	
	F	HF						FF	HF						FF	
Vol	H	HH						HF	HH						HF	
	George Foreman	H	1	1	95	9	0	F	H	1	4	334	4	0	F	
	F	HF						FF	HF						FF	



Border Disputes



Zombie Page Checklist

- Check the print layout for zombies
- Page \geq Body + Margins
- Body \geq Object size after growth
- ConsumeContainerWhiteSpace = True



Properties

Report

Code

Data Only

General

Localization

Other

Page

Code	
DataElementName	
DataElementStyle	Attribute
DataSchema	
DataTransform	
Author	
Description	
Width	668.16pt
DescriptionLocID	
Language	
AutoRefresh	0
ConsumeContainerWhitespace	True
CustomProperties	
InitialPageName	



Border Disputes

Column color last

	Column color last	1													2
Cdc	Name	H	99201	99202	99203	99204	99205	F	H	99211	99212	99213	99214	99215	F
Pct	H	HH						HF	HH						HF
	George Foreman	H	1	0	2	0	0	F	H	0	0	3	0	0	F
	F	HF						FF	HF						FF
Vol	H	HH						HF	HH						HF
	George Foreman	H	1	1	95	9	0	F	H	1	4	334	4	0	F
	F	HF						FF	HF						FF

Row color last

	Row color last	1													2
Method	Provider Name	H	99201	99202	99203	99204	99205	F	H	99211	99212	99213	99214	99215	F
Pct	H	HH						HF	HH						HF
	George Foreman	H	1	0	2	0	0	F	H	0	0	3	0	0	F
	F	HF						FF	HF						FF
Vol	H	HH						HF	HH						HF
	George Foreman	H	1	1	95	9	0	F	H	1	4	334	4	0	F
	F	HF						FF	HF						FF



Double-Tap

- Box in your variable-size objects
- Add a TextBox, width = Body width
- Start hacking away
 - Objects of variable size (subreports, tablixes)
 - Objects closest to the bottom and right

Finally:

- Start fresh, copy and paste.

Also:

- Consider replacing matrix with table

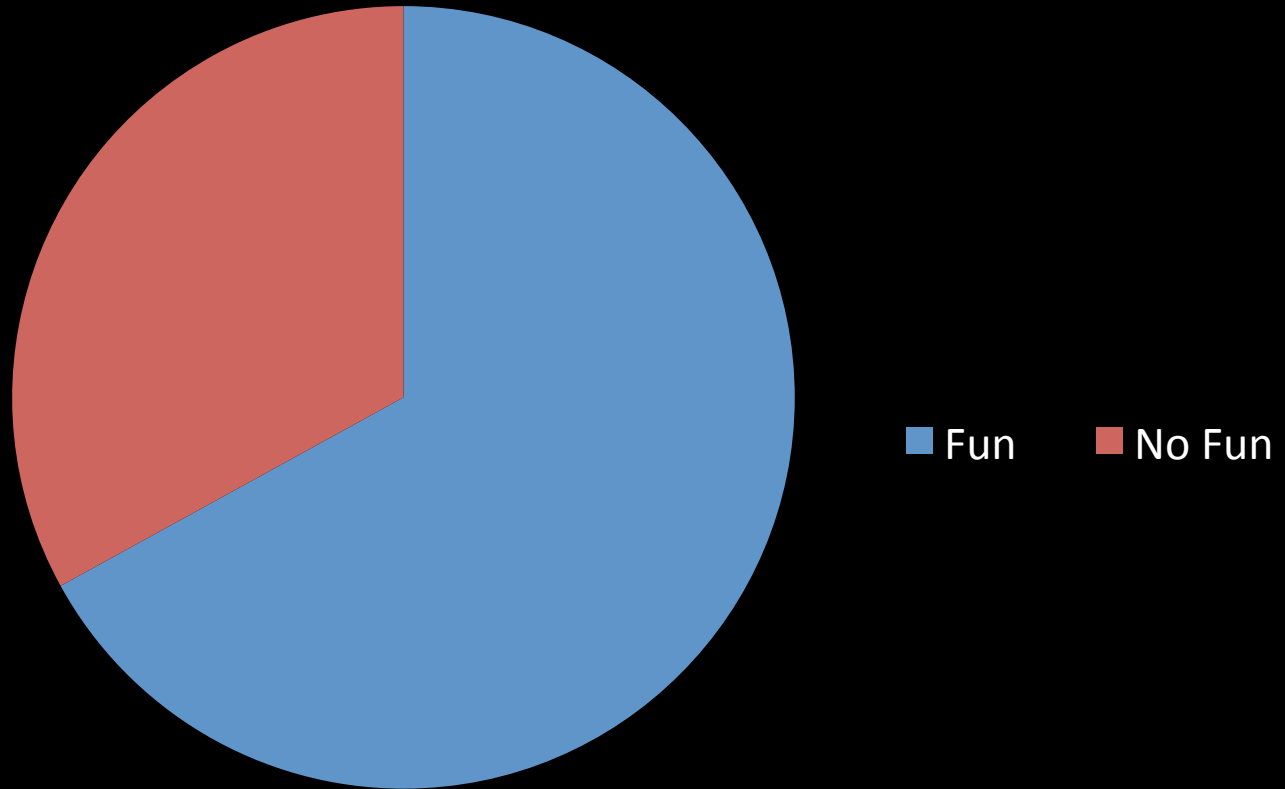


Make It Pretty

1. Table for two
2. Resolve border disputes
3. Die, zombie pages! Die!



% Report Writing Time



Thank you and Feedback

- Thank you for attending “Make It Fast, Make It Pretty” at SQL Saturday #66
- Please make sure to fill out the session evaluation and place it in the box in the back of the room





Yacht: <http://www.flickr.com/photos/re-ality/1571304643>



66