WPF 4 Miscellany

Features added in WPF 4



Topics

- Graphics Performance
- Layout Rounding
- Animation Easing
- Multitouch
- Custom Dictionaries
- Xaml Parsing



Graphics Performance

- General performance
- VisualScrollableAreaClip
- Default RenderOptions.BitmapScalingMode



Cached Composition

```
<Grid CacheMode="BitmapCache">
...
</Grid>
```



Bitmap Effects

Pixel Shader 3.0

BitmapEffect	Translated To
BlurBitmapEffect	BlurEffect
DropShadowBitmapEffect	DropShadowEffect

Glow Testing

Shadow Testing

Disabled

BevelBitmapEffect

EmbossBitmapEffect

OuterGlowBitmapEffect

http://wpffx.codeplex.com/



Layout Rounding



Animation Easing

BackEase

BounceEase

CircleEase

CubicEase

ElasticEase

ExponentialEase

PowerEase

QuadraticEase

QuarticEase

QuinticEase

SineEase



Multitouch

Low-level events

TouchDown

TouchMove

TouchUp

Manipulation Events

ManipulationStarting

ManipulationStarted

ManipulationDelta

ManipulationBoundaryFeedback

ManipulationCompleted



Custom Dictionaries



Microsoft, but not Pluralsight?



System.Xaml

- Separate component
- APIs for Xaml's structure
- Some new Xaml features
 - Not usually available



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