

BizSpark

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специалист по разработке ПО

Майкрософт Украина

Что такое BizSpark?

- Бесплатное ПО для разработки:
 - компания классифицируется как стартап
 - <3 лет
 - <\$500000 оборота
 - создание собственных продуктов
- Бизнес и технические тренинги
- Бесплатное ПО для развертывания компонентов своего ПО
- Срок действия программы 3 года
- www.microsoftstartupzone.com

SilverLight 3: полный обзор возможностей

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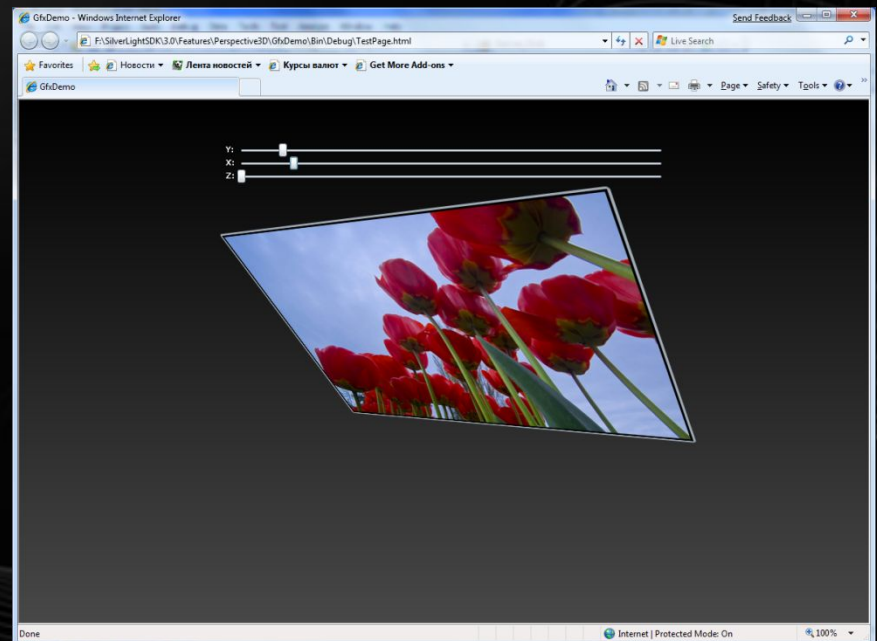
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Поддержка "3D"

- Простое вращение
- Элемент PlaneProjection
 - RotationX, RotationY, RotationZ
 - CenterOfRotationX,...
 - GlobalOffsetX,...
 - LocalOffsetX,...



Демонстрация

The background is dark with several glowing, curved lines in shades of gray and white. A prominent feature is a grid of thin white lines that forms a wavy, tunnel-like structure on the right side of the image.

Offline работа

- Application.Current.Detach();
 - ВЫЗОВ ИЗ СОБЫТИЯ, КОТОРОЕ ИНИЦИИРУЕТСЯ ПОЛЬЗОВАТЕЛЕМ
- Модификация манифеста

```
<Deployment.ApplicationIdentity>  
  <ApplicationIdentity ShortName="HBO on Broadband" Title="HBO on Broadband">  
    <ApplicationIdentity.Blurb>  
      Stream HBO content to your desktop at home or on the go.  
    </ApplicationIdentity.Blurb>  
    <ApplicationIdentity.Icons>  
      <Icon Size="16x16">icons/16x16.png</Icon>  
      <Icon Size="32x32">icons/32x32.png</Icon>  
      <Icon Size="48x48">icons/48x48.png</Icon>  
      <Icon Size="128x128">icons/128x128.png</Icon>  
    </ApplicationIdentity.Icons>  
  </ApplicationIdentity>  
</Deployment.ApplicationIdentity>
```


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Offline работа

- Приложение не должно взаимодействовать с DOM и вызывать JavaScript
- Возможность определить подключение к сети: `GetIsNetworkAvailable`
- Состояние приложения: *LaunchingDetached*
- Приложения будут иметь возможность обновляться

Проверка данных в элементах

- Работает для TextBox, CheckBox, ListBox, ComboBox, RadioButton
- Ошибка инициируется при выполнении связывания данных
- Возможность обработки в событии `BindingValidationError`
- `Text="{Binding Path=FirstName, Mode=TwoWay, ValidatesOnExceptions=true, NotifyOnValidationError=true}"`

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SaveFile диалоговое окно

```
SaveFileDialog sfd = new SaveFileDialog();  
sfd.Filter = "Text File | *.txt";  
sfd.DefaultExt = ".txt";  
sfd.ShowDialog();  
  
if (sfd.FileName != "")  
{  
    System.IO.StreamWriter s =  
        new System.IO.StreamWriter(sfd.OpenFile());  
    s.Write(textBox1.Text);  
    s.Close();  
}
```

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Изменения в базовых элементах

- Поддержка ToolTips
 - Позволяет отображать в качестве подсказки любой элемент, включая контейнеры
- Множественный выбор в ListBox
 - Single, Multiply, Extended
- CaretBrush для TextBox и PasswordBox
 - поддерживает все типы Brush (включая Video)

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Новые элементы в SDK

- Элементы компоновки: DockPanel, WrapPanel, ViewBox
- Работа с данными: DataForm, DataPager, DescriptionViewer, ErrorSummary
- Навигация: Frame, Page
- Другие элементы: ChildWindow, Label, Expander, HeaderedContentControl, HeaderedItemsControl, AutoCompleteBox, TreeView

Поддержка GPU

- `<param name="EnableGPUAcceleration" value="true" />`
- `CacheMode="BitmapCache"`
- Работает при смешивании пикселей, изменении размера и трансформации

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Pixel API

The background features a dark, almost black, gradient. A prominent, bright white curved line starts from the top right and curves towards the center. Another, slightly dimmer white curved line is visible on the left side. In the bottom right corner, there is a complex, glowing grid pattern of thin white lines that forms a series of overlapping, wavy shapes, resembling a stylized 'X' or a series of intersecting planes.

Демонстрация

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Простая анимация

The background features a dark, almost black, gradient. A prominent, bright white curved line sweeps across the top right corner. Below it, several thinner, semi-transparent white lines curve across the frame. In the bottom right quadrant, there is a complex, glowing grid pattern of thin white lines that forms a series of overlapping, wavy shapes, resembling a wireframe or a digital mesh.

Демонстрация

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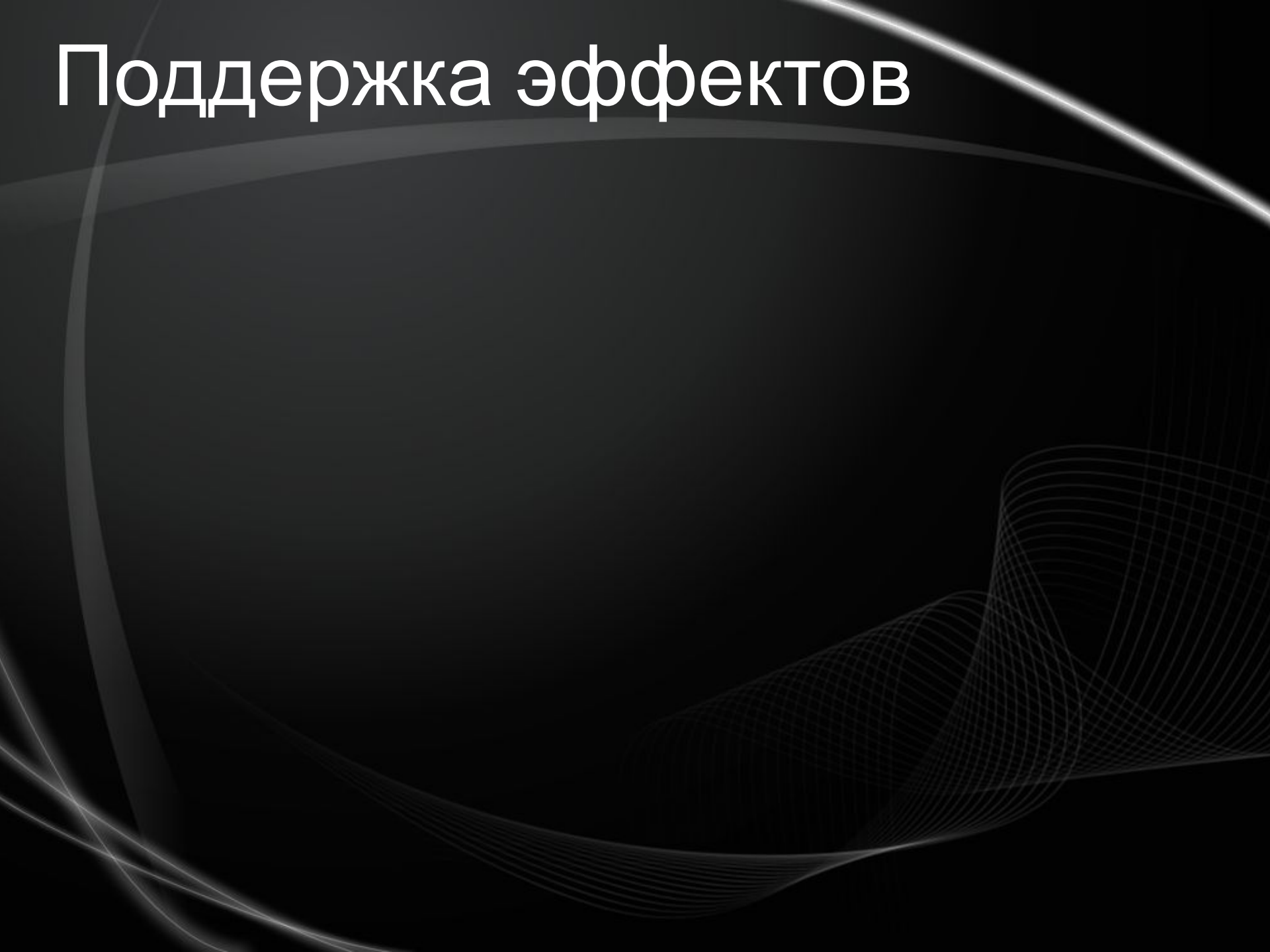
Стили и ресурсы

The background features a dark, almost black, gradient. It is decorated with several glowing, light-colored elements: a thick, curved line on the left side; a thin, bright line curving across the top right; and a complex, multi-layered grid of thin lines in the bottom right corner that creates a sense of depth and movement.

Демонстрация

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Поддержка эффектов

The background is dark with several glowing, curved lines in shades of white and light gray. A prominent feature is a grid of thin, light gray lines that forms a wavy, tunnel-like structure on the right side of the image, receding into the distance.

Демонстрация

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Улучшения в Data Binding

The background is dark with several glowing, curved lines in shades of white and light gray. In the lower right quadrant, there is a complex, overlapping grid of thin white lines that creates a sense of depth and movement, resembling a wireframe or a data visualization.

Демонстрация

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И многое другое...

- События ImageOpened и MediaOpened
- Улучшение работы с кэшем при загрузке изображений (BitmapImage)
- Поддержка новых форматов: MPEG 4, RAW audio и video, HD Photo, H.264 и AAC.LC decoders

И многое другое...

- Улучшенная работа со шрифтами в элементе Glyph (загрузка различных шрифтов из .zip архива, доступ к системным шрифтам)
- Возможность расширения фреймворка своими службами
- Улучшенная работа с событиями KeyUp, KeyDown, MouseUp, MouseDown
- Поддержка системных цветов (ActiveCaption, Menu и т. д.)



Вопросы?

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The image features the Microsoft logo and slogan on a dark background. The logo is in a bold, italicized, white sans-serif font. Below it, the slogan is in a smaller, italicized, white sans-serif font. The background is dark with several abstract, glowing white lines that curve and swirl around the text, creating a sense of motion and depth. The lines vary in thickness and opacity, some appearing as bright streaks while others are more subtle. The overall composition is centered and balanced, with the text being the primary focus.

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