

# BizSpark

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# 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](http://www.microsoftstartupzone.com)

# SilverLight 3: полный обзор возможностей

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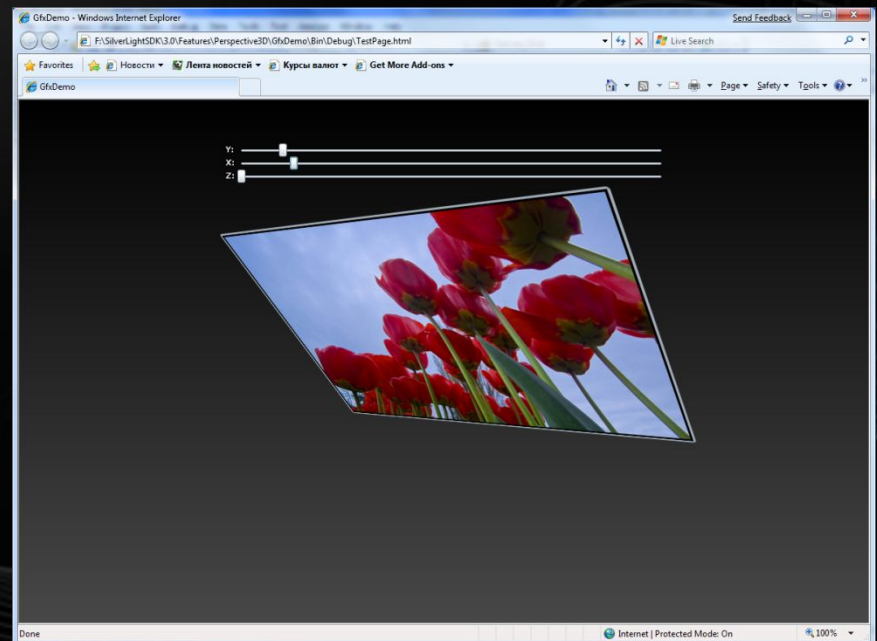
**Майкрософт Украина**

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- Поддержка GPU
- И многое другое...

# 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>
```

# Демонстрация

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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();  
}
```

# 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, receding into the distance.

# 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)

# 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, receding into the distance.

# 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

# 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.


# 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. Below it, a series of thin, overlapping, curved lines create a sense of depth and movement. In the bottom right corner, there is a complex, glowing grid pattern that resembles a wireframe or a digital mesh, with lines that are more densely packed in some areas and more sparse in others, creating a 3D effect.

# 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.

# Простая анимация

The background features a dark, almost black, gradient. A prominent, bright white curved line sweeps across the upper right portion of the frame. Below this, a series of thin, overlapping, semi-transparent white lines form a complex, wavy pattern that resembles a grid or a series of concentric, distorted circles. The overall aesthetic is clean, modern, and minimalist.

# 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.

# Стили и ресурсы

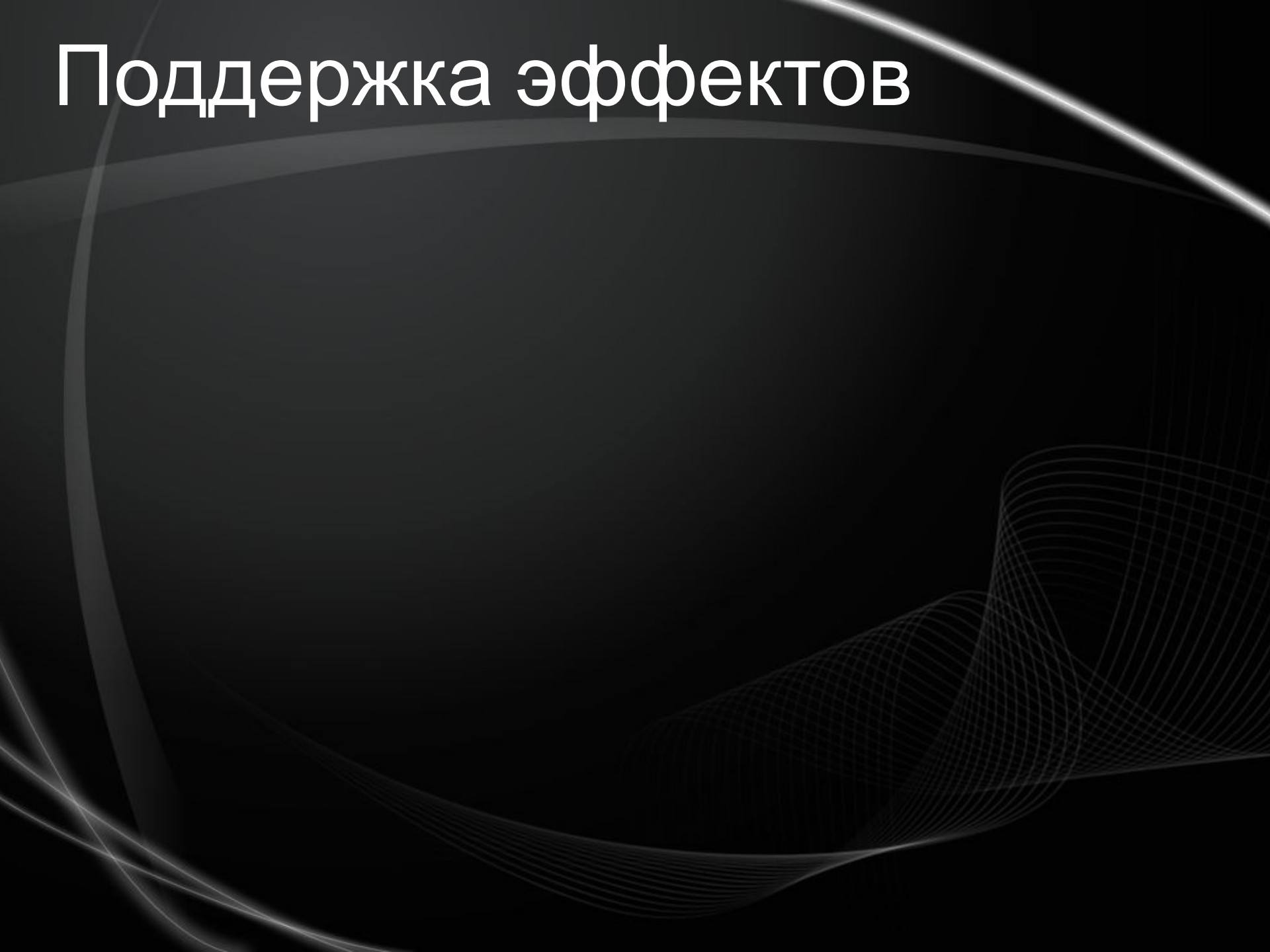
The background features a dark, almost black, gradient. It is decorated with several glowing white elements: a thick, curved line on the left side; a thin, straight line in the top right corner; and a complex, multi-layered grid pattern of thin white lines that forms a series of overlapping, wavy shapes in the bottom right quadrant.

# 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, receding into the distance.



# Поддержка эффектов

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

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, receding into the distance.

# 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

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, receding into the distance.

# 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.

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