



Universitatea Tehnică din Cluj-Napoca
Facultatea de Inginerie Electrică

CURS Master

Tehnologii moderne de proiectare a aplicațiilor multimedia



Curs: **TEHNOLOGII MODERNE DE PROIECTARE A APLICAȚIILOR MULTIMEDIA**




CAP.12. INTEGRAREA FISIERELOR MULTIMEDIA IN APLICAȚIILE WEB

CUPRINS

- 12.1.** Conversie continut in format web
- 12.2.** Integrare imagini
- 12.3.** Integrare obiecte audio
- 12.4.** Integrare obiecte video
- 12.5.** Integrare animatii
- 12.6.** Instrumente conversie, captura si editare audio /video
- 12.7.** Instrumente de editare animatii 2D si 3D
- 12.8.** Exemple slideshow-uri , portofolii imagini, flipping books



12.1. CONVERSIE CONTINUT IN FORMAT WEB

- ✓ Documente, prezentări **DOC, PPT**  **HTML, PDF**
- ✓ Imagini **CDR,BMP,TIFF,PSD**  **JPG,GIF,PNG, PSD,DJVU**
- ✓ Audio-Video/DVD  **Flash, Siverlight, download, embeded, slideshow, flippingbook**
- ✓ Ecuții în format web: **MATHML**
- ✓ Grafice dinamice : dynamic charts (în timp real)



12.2. INTEGRARE IMAGINI

INSTRUMENTE CAPTURA IMAGINI

Achizitie/captura imagini, video

- Scanner de mana



- Scannere 2D si 3D



- Camere foto si video
2D si 3D



INSTRUMENTE CAPTURA IMAGINI

Achizitie/captura imagini, video

- ❑ Software de tip captura ecran/imagini
- Windows Snipping Tool, Ctrl PtrScr
- Software comercial:



[Snagit](#) [ScreenHunter Pro](#) [HyperSnap](#) [Ashampoo Snap](#) [FullShot](#) [Any Capture](#)



[Debut Video Capture Software](#)

[CaptureWiz Pro](#)

[Easy Screen Capture](#)

[SPX Instant Screen Capture](#)



Operatii specifice de editare imagini:

- ❑ Redimensionarea imaginilor (resize)
- ❑ Decuparea unei imagini (crop).
- ❑ Modificarea rezoluției.
- ❑ Controlul pe culoare, dominante de culoare (recolor).
- ❑ Modificarea contrastului și luminozității (contrast,brightness).
- ❑ Retușuri și efecte speciale (blur,distorsionări, shadow, glow, reflection, etc.).
- ❑ Transformarea imaginilor dintr-un format în altul (export).

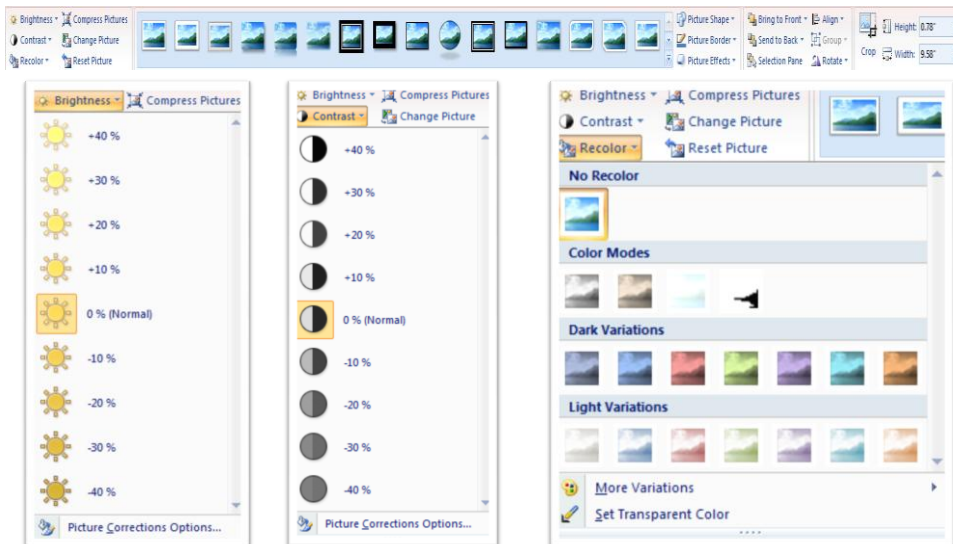


Functii de editare imagini

- Crop:** decupare sectiuni dintr-o imagine
- Contrast:** marire/micsorare contrast imagine
- Filtre:** aplicare filtre de culoare
- Efecte:** aplicare efecte speciale (umbre, reflectii, stralucire, muchii atenuate, efecte 3D), background solid sau transparent, frame-uri
- Mixare de imagini:** creare colaje
- Concatenare imagini panorama:** realizare imagini panoramice.

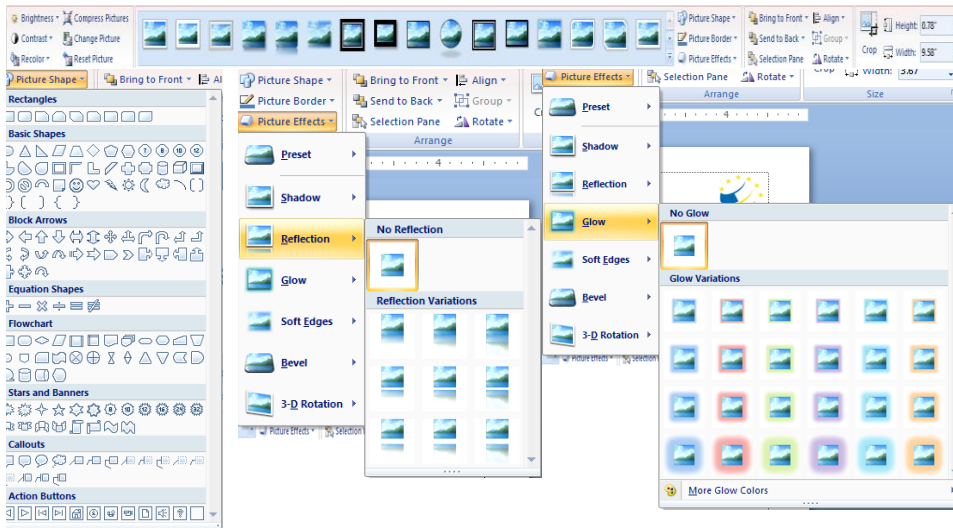


Exemple editare imagini in Microsoft Office





Exemple editare imagini in Microsoft Office



INSTRUMENTE COMERCIALE EDITARE IMAGINI

Instrumente software comerciale:



Adobe Design Standard CS5.5

Adobe Creative Suite 5.5 Design Standard combina instrumentele la standardele industriei pentru editarea imaginilor digitale, crearea de grafica vectoriala, si asezarea documentelor de imprimare cu tipografia eleganta de cea mai buna calitate. Extindeti-va mai departe de imprimare cu eBook-uri dinamice si documente digitale care combina interactivitatea cu calitatea design-urilor traditionale de imprimare.

8 versiuni, intre 1881 si 7886 RON.



Adobe Design Premium CS5.5

Programul Adobe Creative Suite 5.5 Design Premium este cel mai nou set de instrumente pentru proiectarea de continut atragator, reviste digitale atragatoare, eBook-uri elegante si website-uri bazate pe standarde HTML5/CSS3 aduceti la viata design-ul dvs pe smart tablete, incluzand Apple iPad, Motorola BlackBerry PlayBook si multe altele.

8 versiuni, intre 2512 si 11529 RON.



Adobe Web Premium CS5.5

Adobe Creative Suite 5.5 Web Premium ofera tot ce aveti nevoie pentru a crea si livra website-uri bazate pe standarde cu suport HTML5, jQuery Mobile si CSS3. Proiectati experiente si aplicatii digitale captivante pe cuprinsul desktop-urilor, smartphone-urilor, tablete si televizoare.

8 versiuni, intre 2196 si 10925 RON.



INSTRUMENTE COMERCIALE EDITARE IMAGINI



Adobe Photoshop CS5

Programul Adobe Photoshop CS5 redefinește imaginile digitale cu instrumente inovatoare pentru fotografie, selecții și multe altele. Iar acum, utilizați-l creativ - și îmbunătățiți productivitatea aplicațiilor pentru dispozitive mobile pe măsura ce devin disponibile.

16 versiuni, între 1256 și 6067 RON.



Adobe Photoshop Elements 9

Programul de editare foto nr. 1 în vânzări. Pur și simplu nelimitat! Programul de editare foto Adobe Photoshop Elements 9 livrează opțiuni puternice care fac mai ușoară creșterea de fotografii extraordinare, împărtășirea rapidă a amintirilor dvs în Online Albums și creșterea de imprimare unice, și organizare automată care vă ajută să protejați toate fotografiile și videoclipurile dvs.

2 versiuni la 412 RON.



CorelDRAW Graphics Suite X5

CorelDRAW Graphics Suite X5 - Program de prezentare grafică pentru comunicare vizuală izbitoră. Control precis și partajare ușoară

9 versiuni, între 133 și 4600 RON.



INSTRUMENTE COMERCIALE EDITARE IMAGINI



ACDSee Canvas 12

Ilustrare tehnică precisă fără limite. Ca și preferința ilustratorilor tehnici în industria precisă, Canvas 12 vine cu toate instrumentele de ilustrare a obiectelor vectoriale și de editare avansată a imaginilor rasterizate de care aveți nevoie, într-un mediu flexibil și integrat de design. Accelerați și simplificați activitățile dvs de la importul și design-ul inițial până la prezentarea finală, facilitând colaborarea. Îmbunătățește general productivitatea cu această soluție completă de ilustrare tehnică.

8 versiuni, între 47 și 2788 RON.



Adobe After Effects CS5.5

After Effects este soluția-lider în industrie pentru creșterea de grafică în mișcare sofisticată și efecte vizuale cinematografice. Transformați imagini în mișcare pentru a le livra în cinematografe, în sufragerii, pe computere personale și dispozitive mobile.

6 versiuni, între 1127 și 6672 RON.



Adobe Fireworks CS5

Adobe Fireworks oferă instrumentele de care aveți nevoie pentru a crea grafică expresivă, optimizată pentru web sau orice dispozitiv - de la smartphone-uri la standuri la afișaje încorporate.

4 versiuni, între 941 și 1819 RON.



INSTRUMENTE COMERCIALE EDITARE IMAGINI



Adobe Freehand

Folositi FreeHand MX pentru un design creativ, realizarea de "povesti", producerea de documente si editarea acestora cu un set de elemente de design foarte creative. Poate adapta design-urile dumneavoastra foarte usor, atat pentru printat, cat si internet sau Adobe Flash.

6 versiuni, intre 682 si 2501 RON.



Corel PaintShop Photo Pro X3

Daca pasiunea dvs este fotografia, Corel PaintShop Photo ProX3 este programul de editare foto pentru dvs. Cu noile caracteristici RAW Lab si procesarea foto grupata, este singurul program avansat de editare foto care combina intr-un singur pachet gestionarea foto, proiecte creative, partajarea foto chiar si slideshow-uri video HD

2 versiuni, intre 291 si 375 RON.



Xara 3D Maker 7

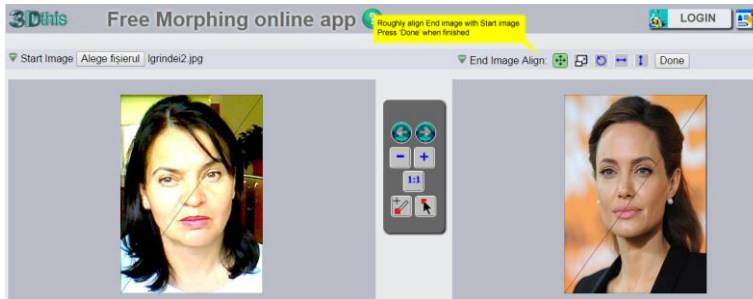
Xara 3D Maker este instrumentul Numarul 1 pentru creatie uimitoare, grafice web 3D de calitate profesionala. Ideal atat pentru pozitiile 3D si titluri, statice cat si animate, logo-uri si butoane, perfect pentru pagini web, mailshots si prezentari online.

2 versiuni, intre 74 si 147 RON.



INSTRUMENTE GRATUITE EDITARE IMAGINI

efecte morph:





INSTRUMENTE GRATUITE EDITARE IMAGINI

efecte morph: <http://www.morphases.com/editor/>



12.3. INTEGRARE OBIECTE AUDIO

Formate Audio

- ❑ **WMA (Windows Media Audio)**: produs de Microsoft pentru Windows , nu este suportat de browsere web(.wma)
- ❑ **MP3 (MPEG Audio Layer 3)**:_Sinonim cu muzica digitala. Cel mai bun suportat de browsere web (.mp3)
- ❑ **AC3**: format DVD, (.ac3)
- ❑ **WAV**: Dezvoltat de IBM si Microsoft(.wav)
- ❑ **AIFF (Audio Interchange File Format)**: utilizat inițial pe Apple (.aiff)
- ❑ **AU UNIX Audio**: format creat de Unix , utilizat pe web (.au)
- ❑ **MIDI (Musical Instrument Digital Interface)**: nu este suportat de browsere web(.mid / .midi)
- ❑ **MP4**:_este un format video, dar poate fi utilizat si pentru fisiere audio.Este suportat de toate browserele.
- ❑ **Ogg**: Dezvoltat de Xiph.Org Foundation. Suport HTML5.

Standardul HTML5 ofera suport doar petru formatele MP3, MP4, WAV, si Ogg audio.



12.3. INTEGRARE OBIECTE AUDIO

In functie de modul de rulare din aplicatia web:

- ❑ **tag `<audio>`** in HTML 5
- ❑ **tagurile: `<embed>` sau `<object>`**

Ex: `<embed src="beatles.mid" />`

Ex:`<object classid="clsid:22D6F312-B0F6-11D0-94AB-0080C74C7E95">
<param name="FileName" value="liar.wav" />
</object>`

- ❑ **link :**

Ex: `Play the Beatles`



Inserare audio: tag-uri `<audio>..</audio>`

```
<!DOCTYPE html>
<html>
<body>

<audio controls>
  <source src="horse.ogg" type="audio/ogg">
  <source src="horse.mp3" type="audio/mpeg">
  Your browser does not support the audio
  element.
</audio>

</body>
</html>
```





12.4. INTEGRARE OBIECTE VIDEO

Formate Video

- ❑ **Shockwave (Flash):** dezvoltat de Adobe, necesita instalare player (.swf).
- ❑ **AVI (Audio Video Interleave)** –creat de Microsoft, suportat de toate browserele web, numai in SO Windows (.avi).
- ❑ **Windows Media:** creat de Microsoft, necesita instalarea unui player, numai in SO Windows (.wmv, .asf, .wma, .asx)
- ❑ **MPEG (Moving Pictures Expert Group):** cel mai popular format (.mpeg sau .mpg mp3, ,mp4), cross-platform, suportat de toate browserele populare.
- ❑ **MPEG-4:** dezvoltat de Moving Pictures Expert Group, bazat pe format QuickTime. Support pentru toate browserele HTML5. Recomandat de YouTube.
- ❑ **Quicktime:** creat de Apple, necesita instalarea unui player pentru a putea rula sub Windows(.mov).
- ❑ **RealVideo:** - dezvoltat de Real Media, permite streaming - online video sau Internet TV. (.rm sau .ram).
- ❑ **Ogg:** Theora Ogg. Dezvoltat de Xiph.Org Foundation. Support HTML5(.ogg).



INTEGRAREA OBIECTELOR VIDEO IN APLICATII WEB

Mod de rulare din aplicatia web:

- ❑ **taguri: <video> (HTML5) , <embed> sau <object>, <iframe>**

Ex: <embed src="video.avi" />

Ex: <object data="video.avi" type="video/avi" />

Ex: HTML 5:

```
<video id="video1" width="420">
```

```
<source src="mov_bbb.mp4" type="video/mp4">
```

Your browser does not support HTML5 video.

```
</video>
```

- ❑ **link**

Ex: Play a video file



Formate video

Common Video Formats



MP4 is the new and upcoming format for internet video.

MP4 is recommended by YouTube.

MP4 is supported by Flash Players.

MP4 is supported by HTML5.

Formate fisiere admise in HTML5

❑ **video** :MP4, WebM, si Ogg

❑ **Audio** : MP3, WAV, si Ogg



Inserare video: tag `<video>.. </video>`

(cu controls)

```
<!DOCTYPE html>
<html>
<body>

<video width="400" controls>
  <source src="mov_bbb.mp4" type="video/mp4">
  <source src="mov_bbb.ogg" type="video/ogg">
  Your browser does not support HTML5 video.
</video>

<p>
Video courtesy of
<a href="http://www.bigbuckbunny.org/" target="_blank">Big
Buck Bunny</a>.
</p>

</body>
</html>
```



0:00 / 0:10

Video courtesy of [Big Buck Bunny](http://www.bigbuckbunny.org/).



Inserare video: autoplay (fara controls)

```
<!DOCTYPE html>
<html>
<body>

<video width="320" height="240" autoplay>
  <source src="movie.mp4" type="video/mp4">
  <source src="movie.ogg" type="video/ogg">
  Your browser does not support the video tag.
</video>

</body>
</html>
```



Inserare video: <iframe> + link extern (controls youtube)

```
<!DOCTYPE html>
<html>
<body>

<iframe width="420" height="345"
src="https://www.youtube.com/embed/tgbNymZ7vqY">
</iframe>

</body>
</html>
```





Inserare video: `<object>` link extern (controls youtube) –Nu se recomanda

```
<!DOCTYPE html>
<html>
<body>

<object width="420" height="315"
data="https://www.youtube.com/v/tgbNymZ7vqY">
</object>

</body>
</html>
```



Inserare video: `<embed>` link extern (controls youtube) –Nu se recomanda

```
<!DOCTYPE html>
<html>
<body>

<embed width="420" height="315"
src="https://www.youtube.com/v/tgbNymZ7vqY">

</body>
</html>
```





Inserare video: compatibilitate browser

Browser	MP4	WebM	Ogg
Internet Explorer	YES	NO	NO
Chrome	YES	YES	YES
Firefox	YES	YES	YES
Safari	YES	NO	NO
Opera	YES (from Opera 25)	YES	YES



INSTRUMENTE CONVERSIE VIDEO/DVD -FLASH



Moyea Video4Web



Moyea DVD4Web



Moyea SWF to Video



Moyea SWF to Mpeg



INSTRUMENTE CAPTURA VIDEO



INSTRUMENTE CAPTURA VIDEO COMERCIALE SNAGIT

The screenshot shows the Snagit website's pricing page. The header includes the TechSmith logo, navigation links (Products, Help, Company, Blog, Store), a search bar, and a 'Sign In' button. The main content area features a headline: 'Start creating remarkable visuals and screenshots' with a sub-headline: 'Join the millions of people who use Snagit every day to have better conversations and get more done.' Below this, there are three pricing options: 'Single User License' for \$49.95, 'Upgrade' for \$24.95, and 'Volume Pricing' with a table of quantities and prices. Each option has a 'Buy Now' button.

Qty.	Price each
5-9	\$39.46
10-24	\$34.96
25-99	\$29.97
100-249	\$24.97
250+	Contact sales



INSTRUMENTE CAPTURA VIDEO COMERCIALE **Adobe Captivate**

ADOBE CAPTIVATE (2017 RELEASE) Features **Buying guide** Looking for LMS? Free trial [Buy now](#)

Pricing Plans

Subscription	Full License Price	Upgrade Price
Subscribe for 35,69 € /mo <small>Incl. TVA</small>	Buy for 1.307,81 € <small>Incl. TVA</small>	Upgrade for 534,31 € <small>Incl. TVA</small>
Subscribe now	Buy now	Upgrade now
<small>Annual commitment and monthly payments required; early termination will attract a cancellation fee.*</small>		<small>Upgrade price available from Adobe Captivate 9</small>



INSTRUMENTE CAPTURA VIDEO COMERCIALE **Camtasia**

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Make your own amazing video today

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Single User License	Upgrade	Volume Pricing														
\$199.00 Buy both Camtasia Version 9 (Windows) and Version 3 (Mac) on one license, without any annual fees or subscriptions. Buy Now	\$99.50 Upgrade your previous copy of Camtasia to the latest version. Upgrade	<table border="1"> <thead> <tr> <th>Qty.</th> <th>Price each</th> </tr> </thead> <tbody> <tr><td>5-9</td><td>\$191.04</td></tr> <tr><td>10-14</td><td>\$185.07</td></tr> <tr><td>15-24</td><td>\$179.10</td></tr> <tr><td>25-49</td><td>\$165.17</td></tr> <tr><td>50-99</td><td>\$159.20</td></tr> <tr><td>100+</td><td>Contact sales</td></tr> </tbody> </table> Buy Now	Qty.	Price each	5-9	\$191.04	10-14	\$185.07	15-24	\$179.10	25-49	\$165.17	50-99	\$159.20	100+	Contact sales
Qty.	Price each															
5-9	\$191.04															
10-14	\$185.07															
15-24	\$179.10															
25-49	\$165.17															
50-99	\$159.20															
100+	Contact sales															
<small>audio files (MP4, WMV, MOV, AVI, etc.).</small>	<small>narration, and more.</small>	<small>to finish in hours, not days.</small>														



INSTRUMENTE CAPTURA VIDEO GRATUITE

Screen Capturer

Free Screen Capturer - simply the best FREE screen capture utility!

Screen Capturer allows you to instantly capture any area of the screen to a file or email.

Simply press the PrtScr key on your keyboard to see the dialog below and select the desired capture option.

Totally free product - no spam, no ads, no strings attached.

Features:

- Capture screenshots
- Capture animations (screencasts)
- Capture full screen
- Capture active or selected window
- Capture selected area of the screen
- Capture screenshots to clipboard, image file, e-mail or printer
- Screenshot image files can be saved in such popular formats as .png, .gif, .jpg, .bmp and .tif.
- Capture screencast animations to highly compressed video files (WMV), with an option to instantly attach them to e-mail
- Capture screencast animations with sound
- Support for multiple monitors

[Download Free Screen Capturer](#)

Screen Capturer

Capture Source:

- Full-screen
- Current Window
- Window
- Region

Capture Mode:

- Screenshot
- Animation

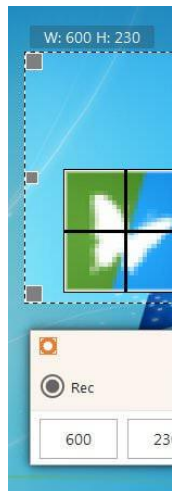
Capture Destination:



INSTRUMENTE CAPTURA VIDEO GRATUITE

Icecream Screen Recorder

Pros:



- Records videos in MP4, MKV or WebM format
- Allows **audio recording** along with the video
- Offers **webcam recording** along with screen recording
- Allows on-screen **drawing (or annotating)** while capturing the screen
- Offers **hotkey configuration** to pause, record and stop the recording
- Allows **saving screenshots to the clipboard** or in JPG or PNG extension
- Offers **Project History** for quick access to previously captured pictures and videos

Cons:

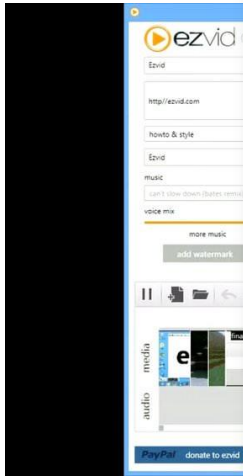
- Free users get a **10-minute cap** of screen recording time
- Offers **limited functionalities and editing** options in its free edition
- Its recordings can't be used for **commercial purposes** by free users



INSTRUMENTE CAPTURA VIDEO GRATUITE

Ezvid Video Maker

Pros:



- **Auto-saves the videos** during recording
- Allows **creating slideshows** with the captursings
- Offers **audio recording** and **voice synthesis** features
- Allows **on-screen annotating** while recording the screen
- Enables **uploading the recorded videos to YouTube** directly
- Offers **webcam recording**

Cons:

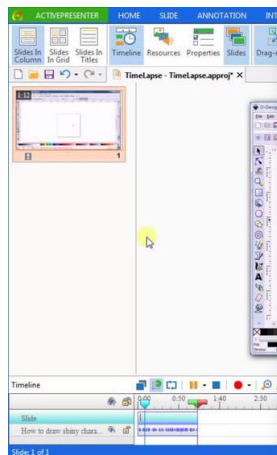
- Allows recording videos up to **45 minutes**
- Supports **uploading videos directly on YouTube** only
- Offers no customizable settings for recording the screen



INSTRUMENTE CAPTURA VIDEO GRATUITE

Atomi ActivePresenter

Pros:



- **No watermark and recording time limits** – even for free users
- Offers **decorating the screencasts** with styles, shadows and color effects
- Allows **adding transition effects** like **photo slides and annotations** to your videos
- Offers a range of **post-recording editing options** like video overlays, cutting and cropping videos, adjusting volume levels, adding blur and few more
- Allows exporting recordings to **MP4, FLV, AVI, WMV, WebM and MKV** formats

Cons:

- **Can't upload** the recorded videos **directly** online
- Its free version lacks various useful features available in its premium versions



INSTRUMENTE CAPTURA VIDEO GRATUITE

TinyTake by MangoApps

Fastest Way to Screen Capture, Record & Share for FREE.

[DOWNLOAD NOW](#)

Best Free Screen Capture Software

	1 WEEK PASS		MOST POPULAR PLAN			
	Basic	1 Week Pass	Standard	Plus	Jumbo	Business
Free	Free	\$9.95	\$29.95 /year \$39.95 /year Billed Annually	\$59.95 /year \$79.95 /year Billed Annually	\$99.95 /year \$149.95 /year Billed Annually	\$199.95 /year \$399.95 /year Billed Annually
For Personal Use Only	For Personal Use Only	For Commercial Use	For Commercial Use	For Commercial Use	For Commercial Use	For Commercial Use
Video Recording Limit (per video): 5 mins	Video Recording Limit (per video): 5 mins	Video Recording Limit (per video): 120 mins	Video Recording Limit (per video): 15 mins	Video Recording Limit (per video): 30 min	Video Recording Limit (per video): 60 mins	Video Recording Limit (per video): 120 mins
Storage: 2 GB	Storage: 2 GB	Storage: 200 GB	Storage: 20 GB	Storage: 200 GB	Storage: 1 TB	Storage: 2 TB
Online Web Gallery	Online Web Gallery	Online Web Gallery	Online Web Gallery	Online Web Gallery	Online Web Gallery	Online Web Gallery
	No Ads / Promotions	No Ads / Promotions	No Ads / Promotions	No Ads / Promotions	No Ads / Promotions	No Ads / Promotions
	YouTube Integration	YouTube Integration	YouTube Integration	YouTube Integration	YouTube Integration	YouTube Integration
	Video Annotations	Video Annotations	Video Annotations	Video Annotations	Video Annotations	Video Annotations



INSTRUMENTE DE EDITARE VIDEO SI ANIMATII



Gif Animator



Adobe Premiere



Adobe Flash

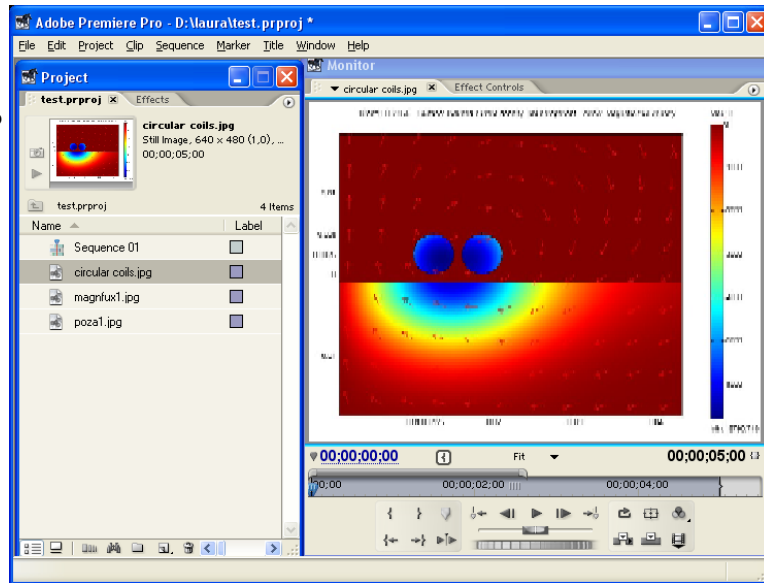


Adobe Director



INSTRUMENTE COMERCIALE EDITARE VIDEO

Adobe
Premiere Pro



INSTRUMENTE GRATUITE EDITARE VIDEO

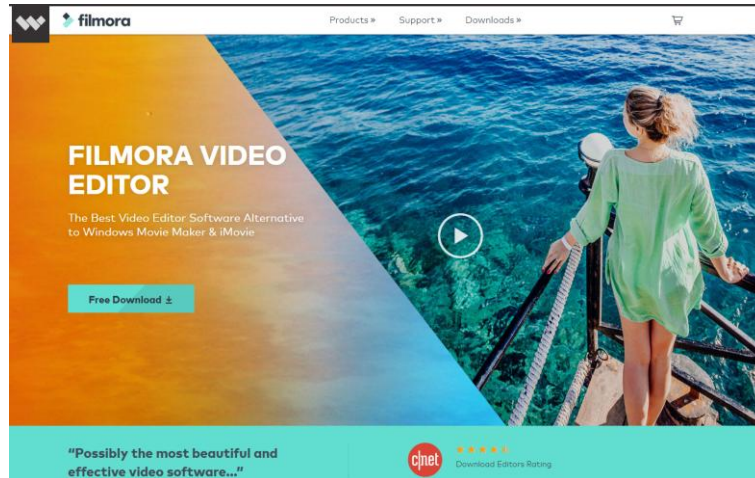
Techradar





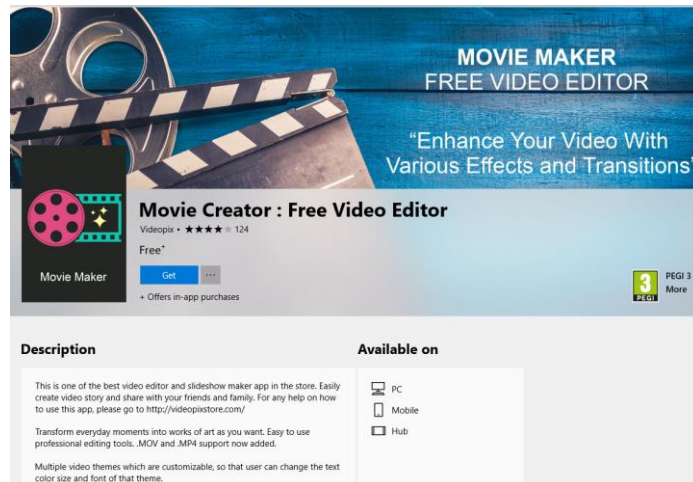
INSTRUMENTE GRATUITE EDITARE VIDEO

Filmora (Wondershare)



INSTRUMENTE GRATUITE EDITARE VIDEO

Movie Creator





INSTRUMENTE GRATUITE EDITARE VIDEO

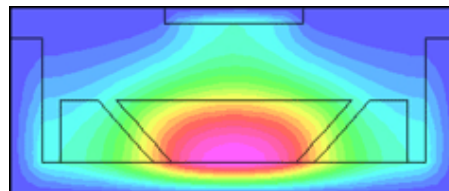
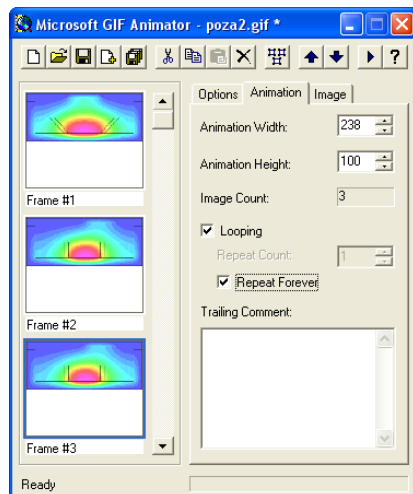
VSDC



12.6. INTEGRARE ANIMATII

INSTRUMENTE COMERCIALE DE EDITARE ANIMATII

Gif Animator





INSTRUMENTE COMERCIALE DE EDITARE ANIMATII

Gif Animator



- ▶ **Multiple graphics formats**
You can use a large number of different graphics formats in GIF Animator, including JPEG, PNG, TIFF, GIF, BMP, PSD, ICO, PCX, PIC, RLE, DIB, PCD, AVI, WMF and many others.
- ▶ **Wizard tool with a bunch of special effects and transitions**
- ▶ **Convert AVI video files to the studio quality GIF animation**

Single User License

License Type	Price	
Single-User Personal License Grants you the right to use the program at home for non-commercial purposes	\$29.95 \$39.95	Buy Now
Single-User Business License Intended for using by business customers, commercial organizations and enterprises	\$49.95 \$69.95	Buy Now



INSTRUMENTE COMERCIALE DE EDITARE ANIMATII INTERACTIVE

Adobe Flash Professional CC ->Animate CC

ADOBE ANIMATE CC Ce este nou Instruire și asistență Versiune test gratuită Mai multe produse [Cumpărați acum](#)

O nouă eră pentru animații.
Orice platformă. Orice dispozitiv. Orice stil.

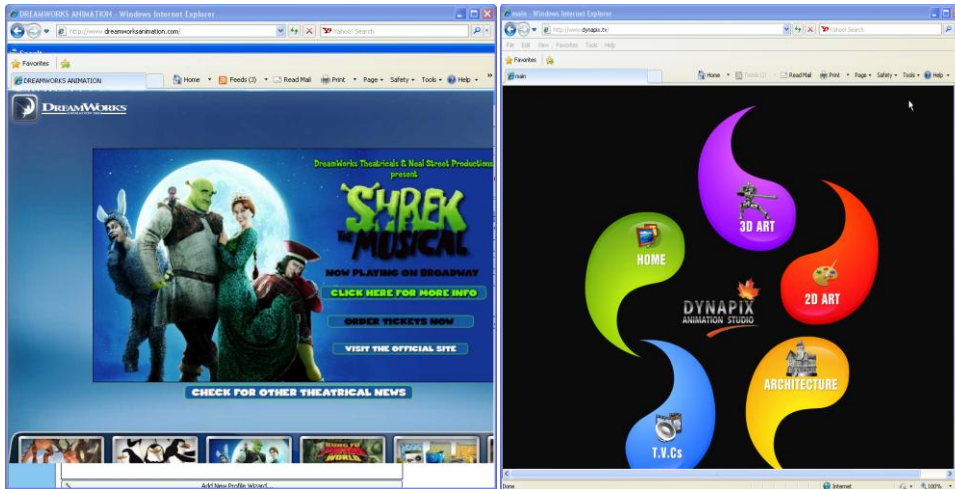
Creați animații interactive cu instrumente de desen de ultimă generație și publicați-le pe mai multe platforme — inclusiv Flash/Adobe AIR, HTML5 Canvas, WebGL sau chiar platforme personalizate — și puteți ajunge la vizualizatorii difuzării de televiziune sau care utilizează practic orice dispozitiv pentru desktop sau mobil.

[Sunteți nou la Animate? Obțineți informațiile de bază >](#)

Obțineți Animate ca parte din Adobe Creative Cloud la prețul de numai **23,79 €/lună incl. TVA** [Alegeți un plan](#)

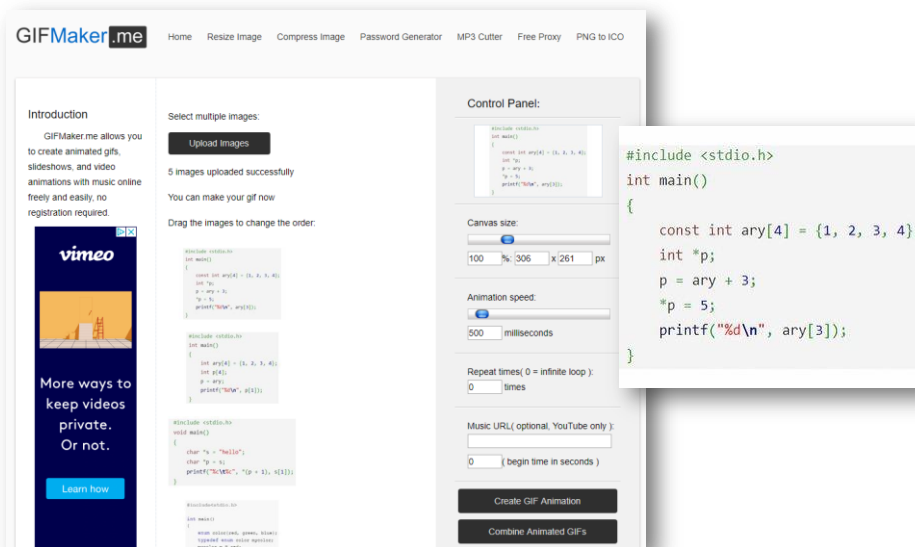


Exemple SITE-URI FLASH



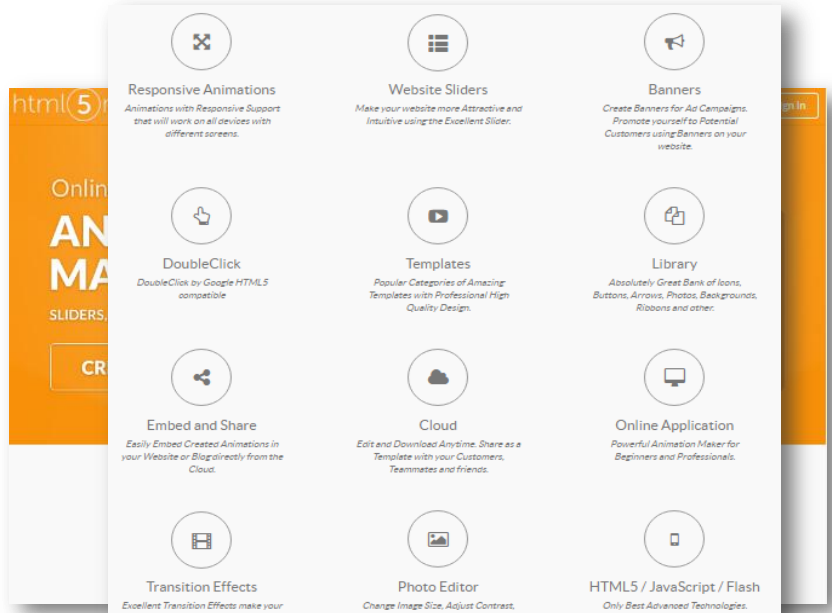
INSTRUMENTE GRATUITE DE EDITARE ANIMATII

GifMaker.me





INSTRUMENTE GRATUITE DE EDITARE ANIMATII



INSTRUMENTE GRATUITE DE EDITARE ANIMATII

Synfig Studio : 2D





INSTRUMENTE GRATUITE DE EDITARE ANIMATII

Blender : 3D



Game Creation

Included in Blender is a complete game engine, allowing you to create a fully featured 3d game right inside Blender.

The game engine includes:

- Ability to port your models to any third-party game engine
- Create or code your own game logic
- Full **Bullet Physics** integration
- Python scripting API for advanced control and AI
- Support for all OpenGL™ dynamic lighting, toon shading, animated materials as well as Normal and Parallax Mapping
- Playback of games inside Blender without compiling or preprocessing
- 3D spatial audio using OpenAL

- Fluid – Realistic water and fluid simulations.
- Smoke – Billowing smoke with flames and scene interaction.
- Hair – Beautiful wafes of hair that blows in the wind and interacts with collisions.
- Cloth – Amazingly realistic cloth simulations for clothing and environments
- Rigid Body Physics – Makes any object destructable and collidable
- Particles – For creating things like rain, sparks and shrapnel



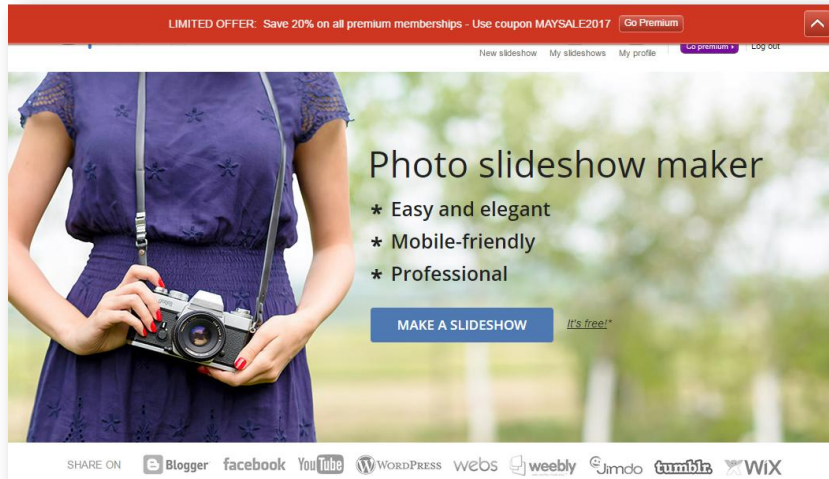
Exemple de site web cu colectii de animatii

The screenshot shows the website **gifs-paradise.com**. The header features the site name in a stylized font with cartoon animal icons. Below the header, there's a navigation menu with options like "Download Clipart" and "Download Vector". The main content area is titled "Animated GIFs collection – Welcome to gifs-paradise.com" and includes a search bar and several buttons for downloading content. A list of categories is visible on the left, starting with "A". The main content area displays several animated GIFs, including a dog, a cartoon character, and a green character. Below the GIFs, there's a section titled "On gifs-paradise.com you will find:" followed by a list of features and content types available on the site.



INSTRUMENTE SLIDESHOW

Photosnack: <http://www.photosnack.com/>

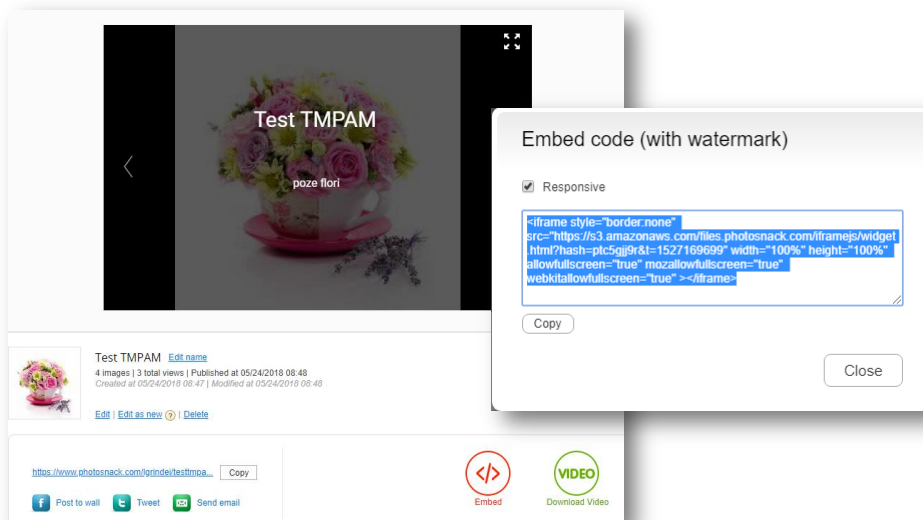


<http://www.photosnack.com/lgrindei/mps2017.html>



INSTRUMENTE SLIDESHOW

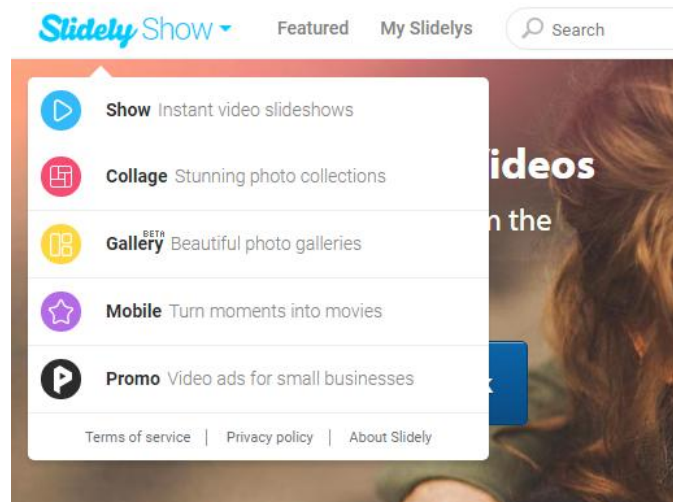
Photosnack: <http://www.photosnack.com/>, Gratuit cu watermark





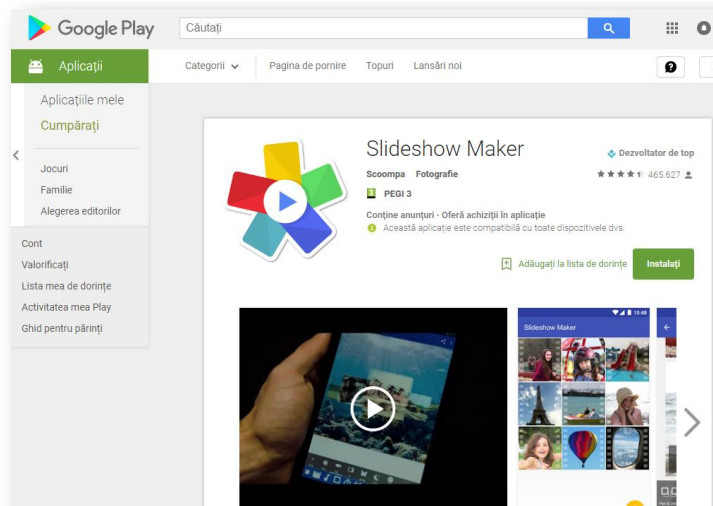
INSTRUMENTE SLIDESHOW

Slidely: <http://slide.ly>



INSTRUMENTE SLIDESHOW

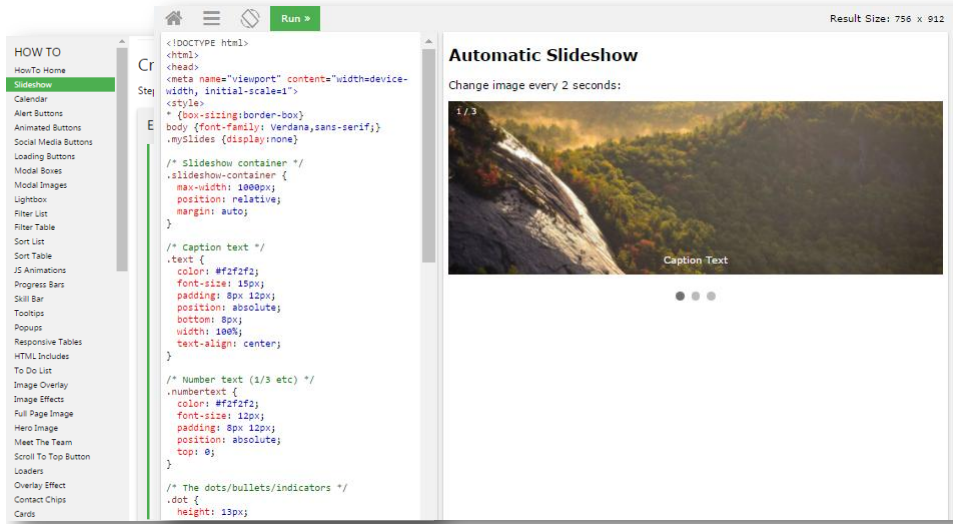
Google Slideshow maker:





INSTRUMENTE SLIDESHOW

In HTML 5, CSS sau JavaScript:



INSTRUMENTE FLIPPING BOOK

FLIPHTML5: <http://fliphtml5.com>





INSTRUMENTE FLIPPING BOOK

SLIDEFULL: <http://slideful.com/>

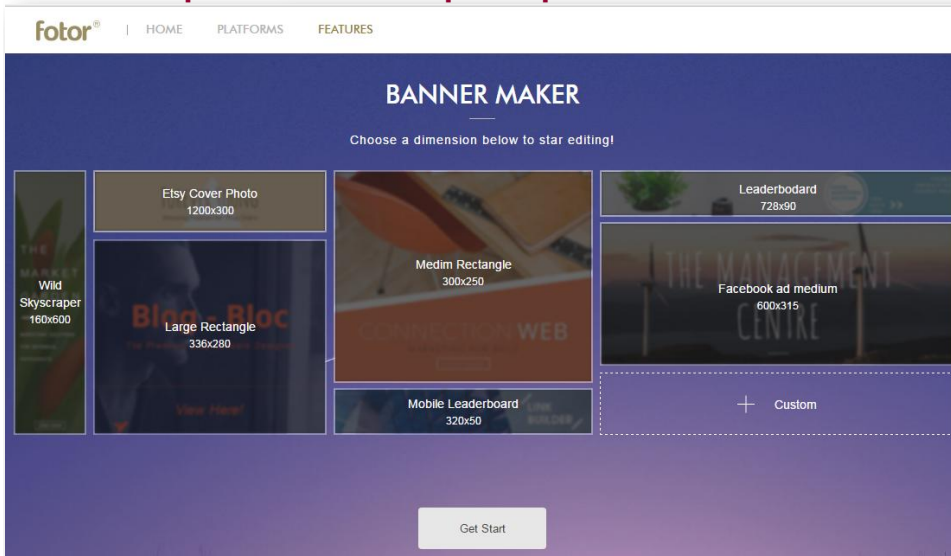


<http://www.et.utcluj.ro/mps/mps2006p.html>

<http://www.saleie.co.uk/>

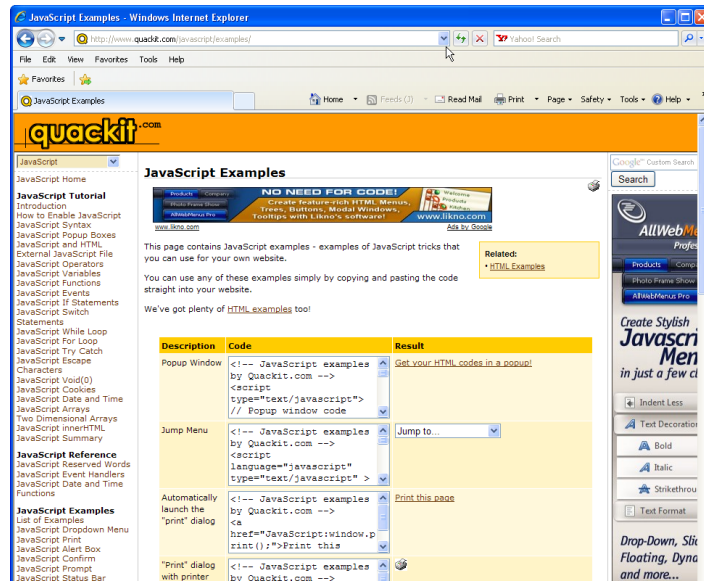


Exemple de instrumente pentru proiectarea bannerelor





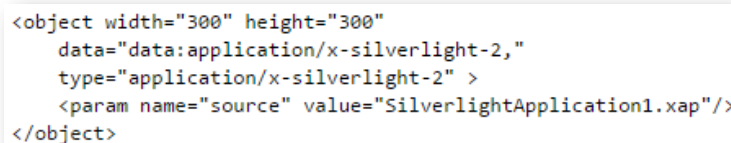
Exemple de colectii JavaScript



INTEGRARE FLASH (.SWF) IN HTML 5



INTEGRARE MS SILVERLIGHT (.XAP) IN HTML 5





INSTRUMENTE DE EDITARE ECUATII IN FORMAT WEB

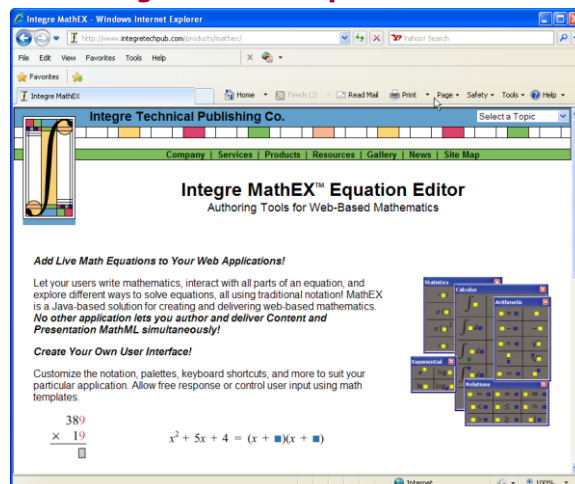
Integre MathML Equation Editor

$f(x + y)$	$f(x + y)$
<pre> <mrow> <mi>f</mi> <mfenced> <mrow> <mi>x</mi> <mo>+</mo> <mi>y</mi> </mrow> </mfenced> </mrow> </pre>	<pre> <mrow> <mi>f</mi> <mfenced> <mstyle color='#ff0000'> <mrow> <mi>x</mi> <mo>+</mo> <mi>y</mi> </mrow> </mstyle> </mfenced> </mrow> </pre>



INSTRUMENTE DE EDITARE ECUATII IN FORMAT WEB

Integre MathML Equation Editor





INSTRUMENTE DE EDITARE ECUATII IN FORMAT WEB

Integre MathML Equation Editor

<pre><mroot> <mrow> <mn>1</mn> <mo>-</mo> <mfrac> <mi>x</mi> <mn>2</mn> </mfrac> </mrow> <mn>3</mn> </mroot></pre>	$\sqrt[3]{1 - \frac{x}{2}}$
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