



# @- learning sadržaji na temelju PowerPoint prezentacija

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# Uvod

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- e-learning je učenje pomoću računala
- e-learning je upotreba komunikacijskih sposobnosti računalne tehnologije za **unapređenje** procesa poučavanja
- pomoću e-learninga **učenik** postaje **centralna figura** u procesu učenja

# Važne značajke e-learninga

- učenik – osoba koja rješava zadatke
- učenje kroz realne primjere – aktivnost učenika
- testiranje
- komunikacija
- praćenje napretka i rezultata učenja

# Primjene e-learninga

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- privatni sektor (cjeloživotna edukacija zaposlenika)
- obrazovni sustav (osnovna škola, srednja škola, fakultet)

# E-learning u obrazovnom sustavu

- pogodan za sve uzraste(zabavan, edukativan)
- idealan kao nadopuna klasičnom učenju – “Blended” learning
- učenje i međusobna komunikacija i van školskih zidova
- dodatna edukacija



# E-learning u obrazovnom sustavu

- odgovarajuća IT infrastruktura
- predznanje profesora i “stav” prema novim oblicima učenja
- predznanje učenika
- izrada nastavnih sadržaja



# MS PowerPoint

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- klasične prezentacije već su jedan oblik e-learning sadržaja
- jednostavan, rasprostranjen, dostupan
- postoje mnogi programi koji ga “nadograđuju” i prilagođavaju za e-learning
- oko 70% svih e-learning sadržaja u svijetu izrađuje se u Powerpointu

# Izrada sadržaja

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- naprednim korištenjem mogu se izraditi interaktivni multimedijalni sadržaji
- programi koji pojednostavljaju i proširuju izradu sadržaja:
  - Articulate Studio,
  - Macromedia Breeze,
  - MS Producer
  - ...



# Distribucija

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- .ppt se ne može pokrenuti bez odgovarajućeg programa
- mogućnost pakiranja prezentacije s ugrađenim PowerPoint viewerom
- prilagodba za distribuciju preko weba:
  - Articulate,
  - Macromedia Breeze,
  - MS Producer

# Praćenje rezultata

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- teško izvedivo bez dodatnih alata
- programi koji nude “tracking” sadržaja:
  - Articulate Studio,
  - Macromedia Breeze,
  - MS Producer
- za efikasno praćenje rezultata i administraciju korisnika potrebna integracija s LMS-om

# ARTICULATE STUDIO



# Articulate Studio

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- Articulate Engage



- Articulate Quizmaker



- Articulate Presenter

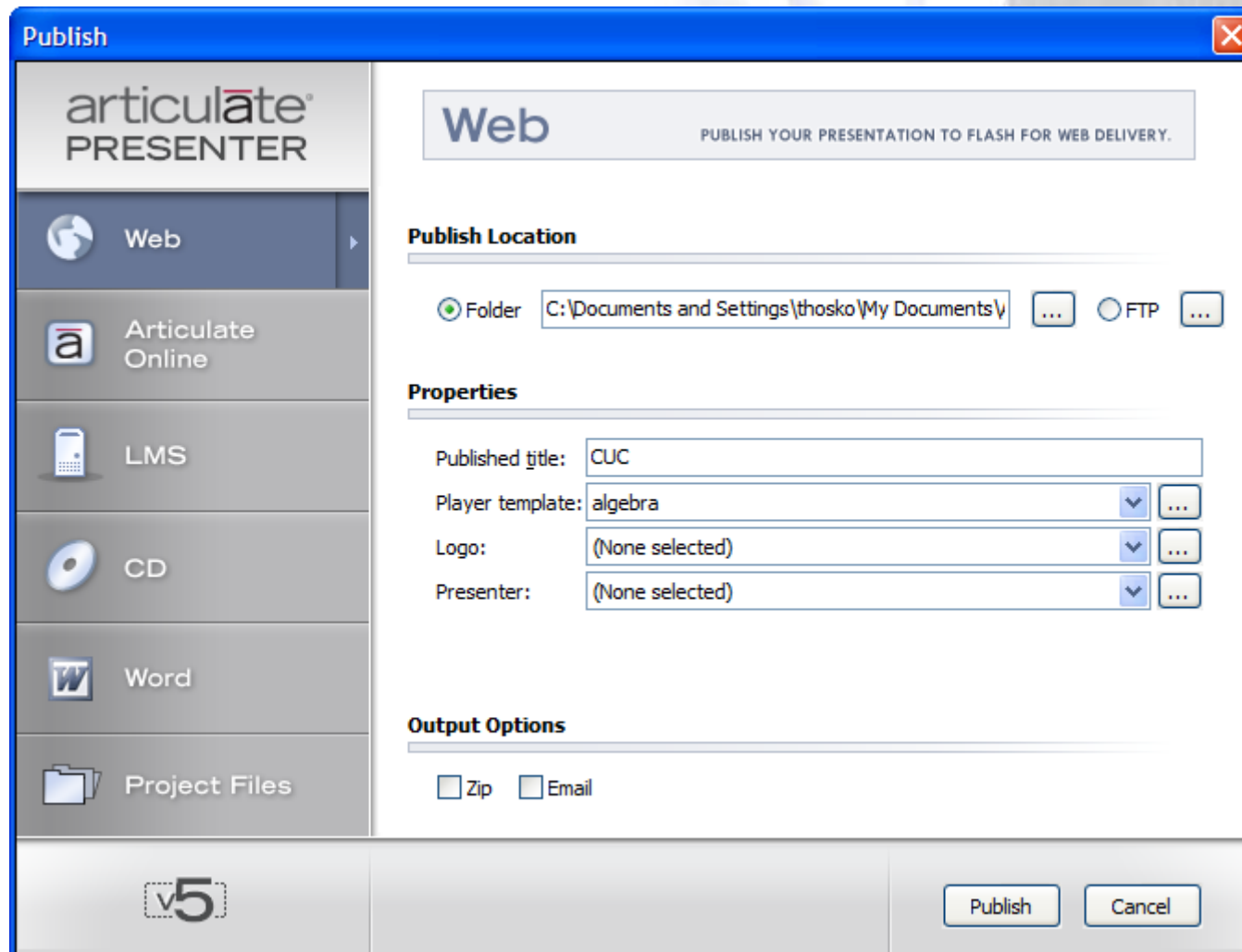


# Articulate Presenter

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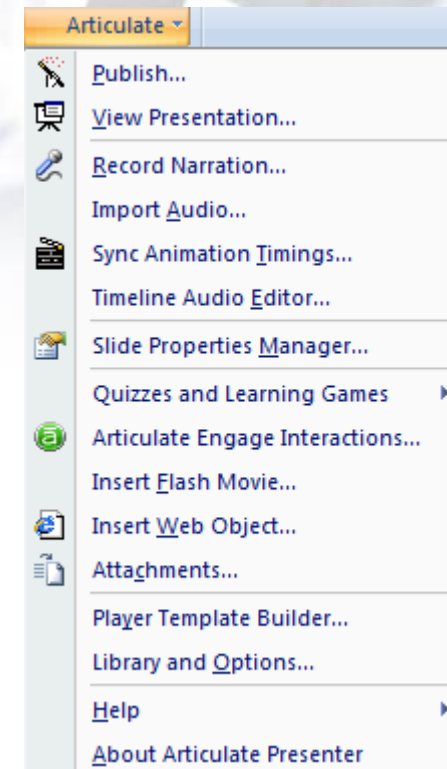
- svojevrstan dodatak za PowerPoint
- priprema PowerPoint prezentacije za distribuciju:
  - na CD
  - na web
  - na Articulate online
  - u LMS sustave

# Articulate Presenter



# Articulate Presenter

- ubacivanje/snimanje zvuka
- editor zvuka
- sinkronizacija zvuka
- ubacivanje flash filmića
- ubacivanje web objekata
- ubacivanje dodataka (datoteka/linkova)



# Articulate Presenter

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- nudi intuitivno grafičko sučelje unutar kojeg se prikazuju priređeni sadržaji
- mogućnost modifikacije izgleda sučelja putem gotovih predložaka
- mogućnost izrade novih predložaka
- lokalizacija nazivlja sučelja





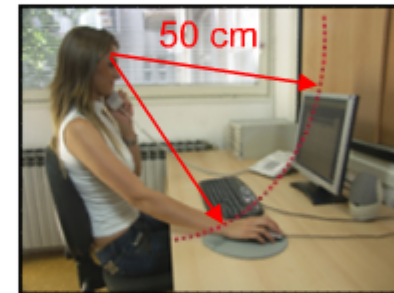
Pregled Slajdovi Traženje Bilješke

- 2. Zaslon, tipkovnica, miš
- 2.1 Udaljenost zaslona od očiju
- 2.2 Namještanje zaslona na pravu udaljenost
- 2.3 Osvježenje slike na zaslonu
- 2.4 Visina zaslona
- 2.5 Održavanje čistoće
- 2.6 Veličina znakova na zaslonu
- 2.7 Odnos boje teksta i pozadine
- 2.8 Veličina zaslona
- 2.9 Izbor tipkovnice
- 2.10 Slobodna površina za smještaj ruku
- 2.11 Visina tipkovnice
- 2.12 Pomicanje tipkovnice
- 2.13 Miš

## 2. Zaslon, tipkovnica i miš

### 2.1 Udaljenost zaslona od očiju

- odabir pravilne lokacije
- smjernice u određivanju idealnog položaja zaslona:
  - pravilna udaljenost od očiju
  - odgovarajuća frekvencija osvježavanja
  - odgovarajuća visina
  - veličina znakova



Slajd 2 od 14 Reproduciranje 00:39 / 00:53



Bilješke

Color Schemes

Select a color scheme: Green pharma

New...

OK

Cancel

AP 5 Preview Presentation

COLORIZER | Dodaci

articulāte®

Pregled Slajdovi Traženje Bilješke

- Slide Title
- Slide Title
- Slide Title
- ▼ Section Heading
  - Slide Title
  - Slide Title
  - Slide Title
- Section Heading
  - Slide Title
  - This is a very long slide title to demonstrate s
  - Slide Title

COLORIZER II

Click the color to edit, then click "Apply Color" to preview.

Accent Colors:

- Slide background
- Sidebar background
- HTML background
- Lines
- Slide dropshadow
- Sidebar shadow

Slide List Colors:

- Unviewed slide titles
- Viewed slide titles
- Level expanding icon
- Seperator lines
- Current slide highlight
- Rollover slide highlight
- Slide list shadow

Tab Colors:

- Tab text
- Tab border lines
- Tab rollover
- Active tab gradient top
- Active tab gradient bottom

Button Colors:

- Button text / icons
- Button face
- Button rollover

Scrollbar Colors:

- Scrollbar face
- Scrollbar track
- Scrollbar arrows

Top Bar:

- Gradient top
- Gradient bottom

Bottom Bar:

- Gradient top
- Gradient bottom

Tooltip Colors:

- Text
- Background
- Border

Playback Controls:

- Gradient top
- Gradient bottom
- Click-to-advance pulse

Seekbar:

- Text
- Seekbar face
- Seekbar track

Red: 0  
Green: 0  
Blue: 0  
Hex: #000000

Apply This Color

-OK-

articulāte  
POWERED PRESENTATION



Slajd 7 od 14

Reproduciranje

00:00 / 00:05



Bilješke

# Lokalizacija

The screenshot shows the 'Player Template Builder: algebra' window. On the left is a sidebar with navigation options: Layout, Navigation, Text Labels (selected), Colors, and Other. The main area is titled 'Text Labels' and contains a table for customizing text. Below the table are buttons for 'File...', 'Preview...', and 'Close'. At the bottom left, there is a 'v5' logo and a dropdown menu showing 'algebra'.

articulate PRESENTER

Text Labels CUSTOMIZE THE TEXT FOR PLAYER BUTTONS, LABELS AND MESSAGES.

Click a cell to enter custom text.

Buttons/Messages	Custom text
1 Bio Button	Bio
2 Email Button	Email
3 Email Text Message	To send a message, please click the link be
4 Outline Tab	Pregled
5 Thumbnails Tab	Slajdovi
6 Search Tab	Traženje
7 Notes Tab	Bilješke
8 Search: Search For	Traži:
9 Search: Search In	Traži u:
10 Search: Slide Text	Tekst slajda
11 Search: Slide Notes	Bilješke slajda
12 Slide Notes Button	Bilješke
13 Seek Bar: Slide	Slajd

v5 algebra File... Preview... Close

# Articulate Presenter

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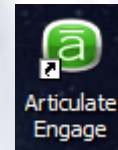
- Primjeri



# Articulate Engage

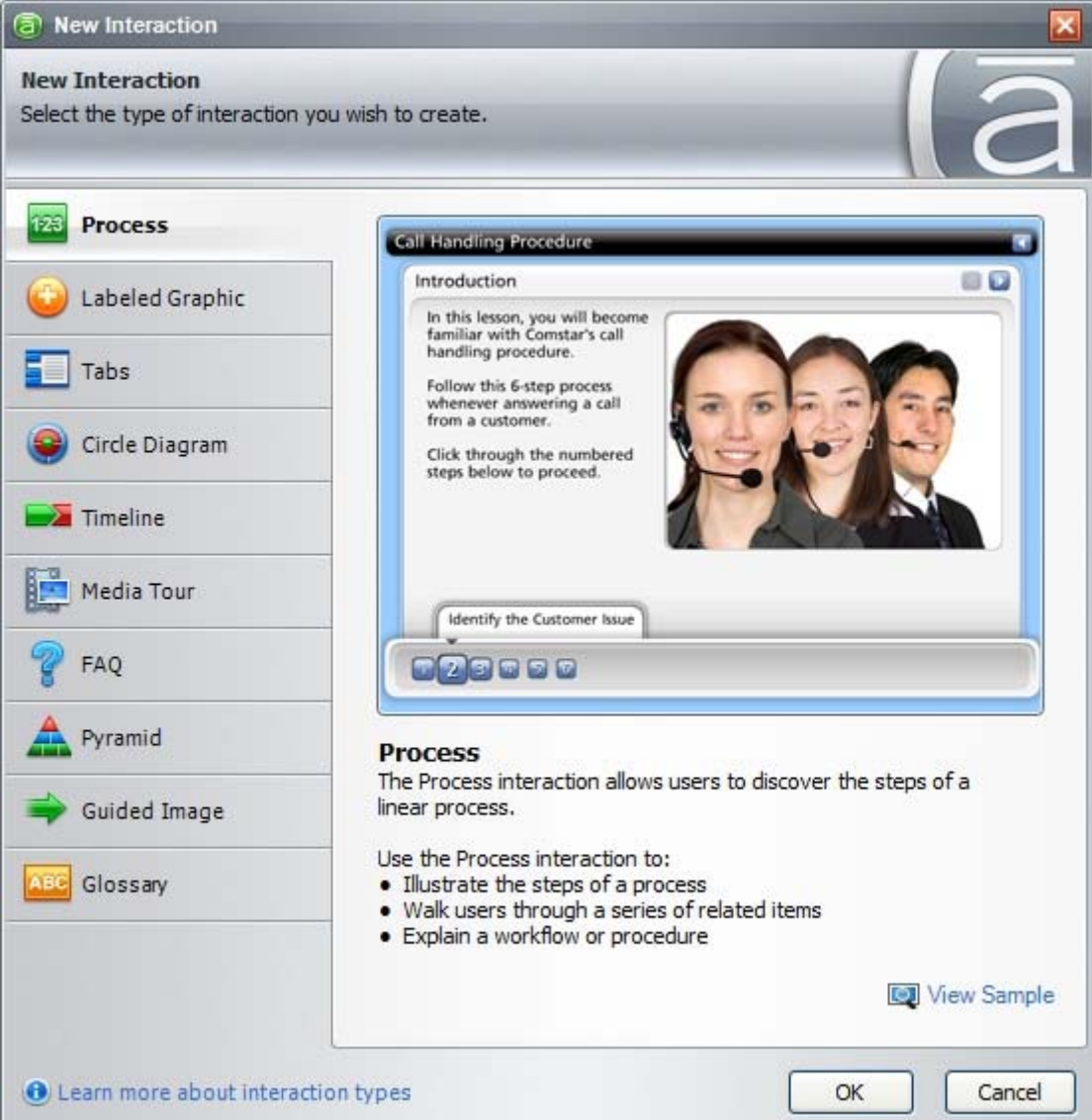
---

- kao “stand-alone” program
- u integraciji s Presenterom (PowerPointom)
- izrada interaktivnih multimedijalnih slajdova
- 10 različitih tipova slajdova
- modifikacija putem predložaka
- lokalizacija



# Process

Omogućava korisniku da uči korake nekog linearnog procesa



**New Interaction**

Select the type of interaction you wish to create.

- Process**
- Labeled Graphic
- Tabs
- Circle Diagram
- Timeline
- Media Tour
- FAQ
- Pyramid
- Guided Image
- Glossary

**Call Handling Procedure**

**Introduction**

In this lesson, you will become familiar with Comstar's call handling procedure.

Follow this 6-step process whenever answering a call from a customer.

Click through the numbered steps below to proceed.

Identify the Customer Issue

**Process**

The Process interaction allows users to discover the steps of a linear process.

Use the Process interaction to:

- Illustrate the steps of a process
- Walk users through a series of related items
- Explain a workflow or procedure

[View Sample](#)

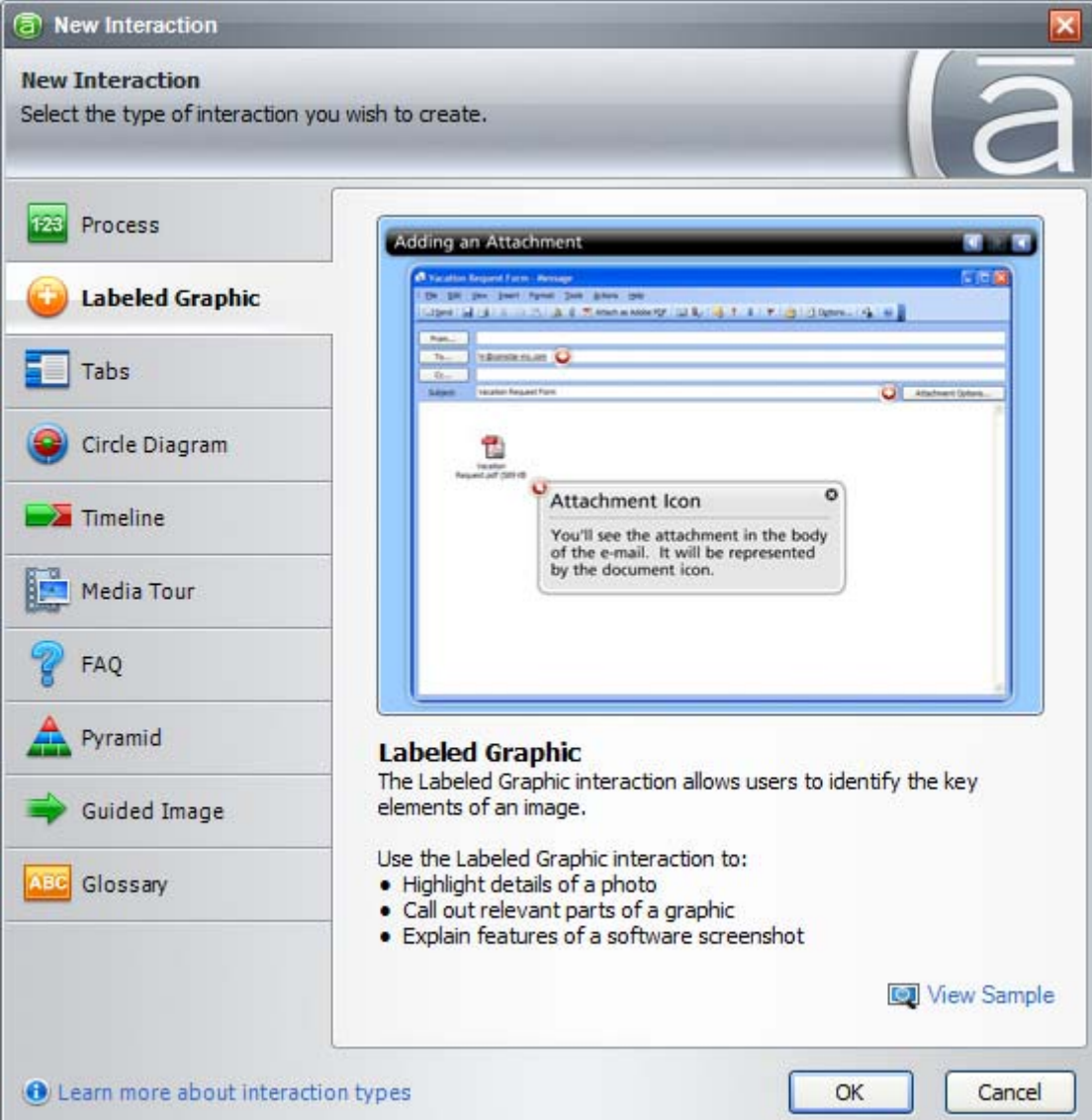
[Learn more about interaction types](#)

OK Cancel



# Labeled Graphic

Omogućava korisniku da proučava detalje neke slike



**New Interaction**

Select the type of interaction you wish to create.

- Process
- Labeled Graphic**
- Tabs
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**Adding an Attachment**

Attachment Icon

You'll see the attachment in the body of the e-mail. It will be represented by the document icon.

**Labeled Graphic**

The Labeled Graphic interaction allows users to identify the key elements of an image.

Use the Labeled Graphic interaction to:

- Highlight details of a photo
- Call out relevant parts of a graphic
- Explain features of a software screenshot

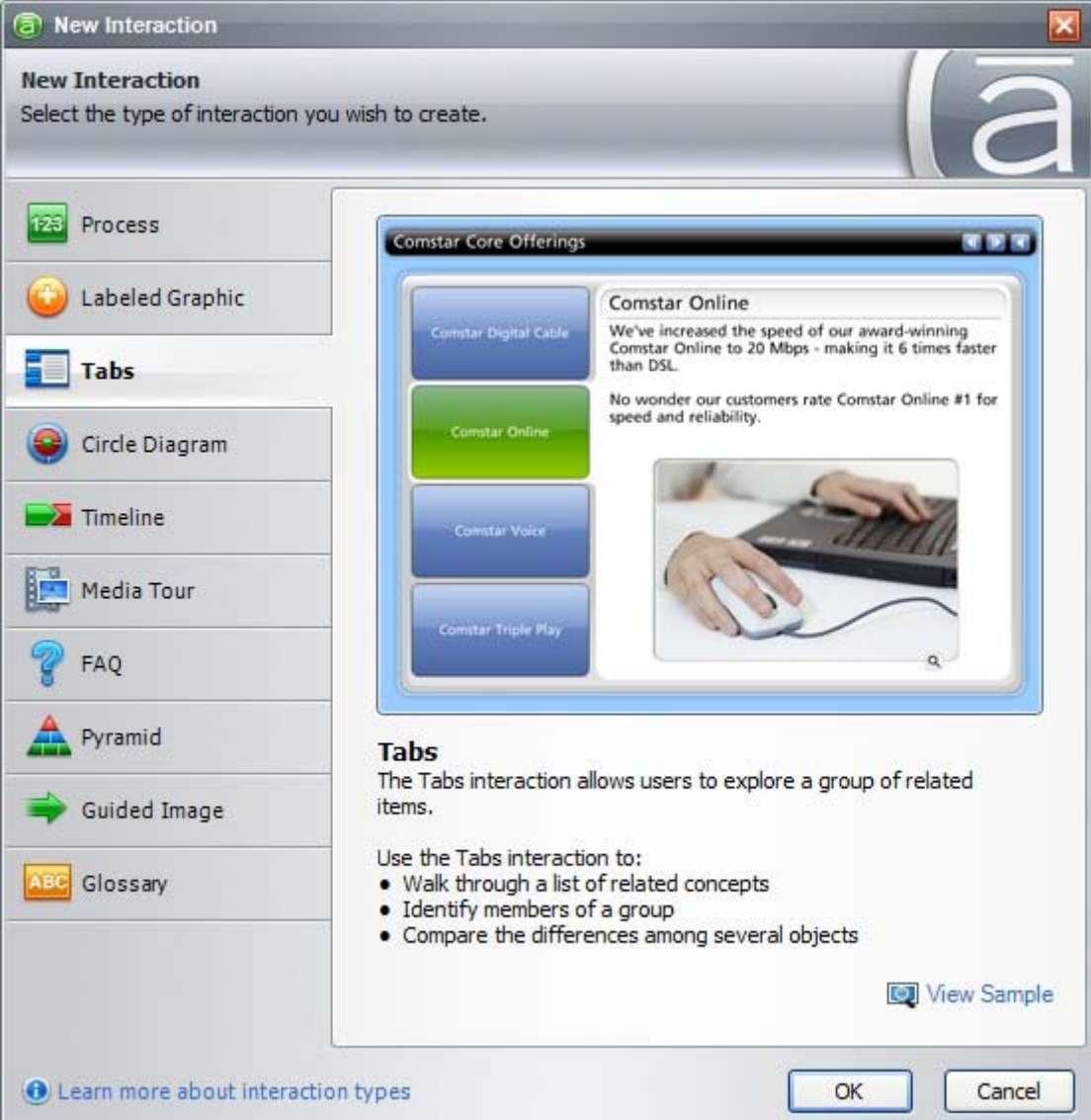
[View Sample](#)

[Learn more about interaction types](#)

OK Cancel

# Tabs

Omogućava korisniku da proučava grupe povezanih pojmova



**New Interaction**  
Select the type of interaction you wish to create.

- Process
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- Tabs**
- Circle Diagram
- Timeline
- Media Tour
- FAQ
- Pyramid
- Guided Image
- Glossary

**Comstar Core Offerings**

**Comstar Online**  
We've increased the speed of our award-winning Comstar Online to 20 Mbps - making it 6 times faster than DSL.  
No wonder our customers rate Comstar Online #1 for speed and reliability.

**Tabs**  
The Tabs interaction allows users to explore a group of related items.

Use the Tabs interaction to:

- Walk through a list of related concepts
- Identify members of a group
- Compare the differences among several objects

[View Sample](#)

[Learn more about interaction types](#)

OK Cancel



# Circle Diagram

Omogućava korisniku da proučava pojmove vezane u kružnim dijagramima



**New Interaction**

Select the type of interaction you wish to create.

- Process
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- Circle Diagram**
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**Comstar Customer Service Model**

**Customer Centric**

We make customers the focus of our business. Remember:

- Customer comes first
- Customer input is valuable
- Relationships are key

**Circle Diagram**

The Circle Diagram interaction allows users to examine the relationship of items in a circular hierarchy.

Use the Circle Diagram interaction to:

- Show related items within a hierarchy
- Organize concepts into segments and layers
- Graphically depict a philosophy or approach

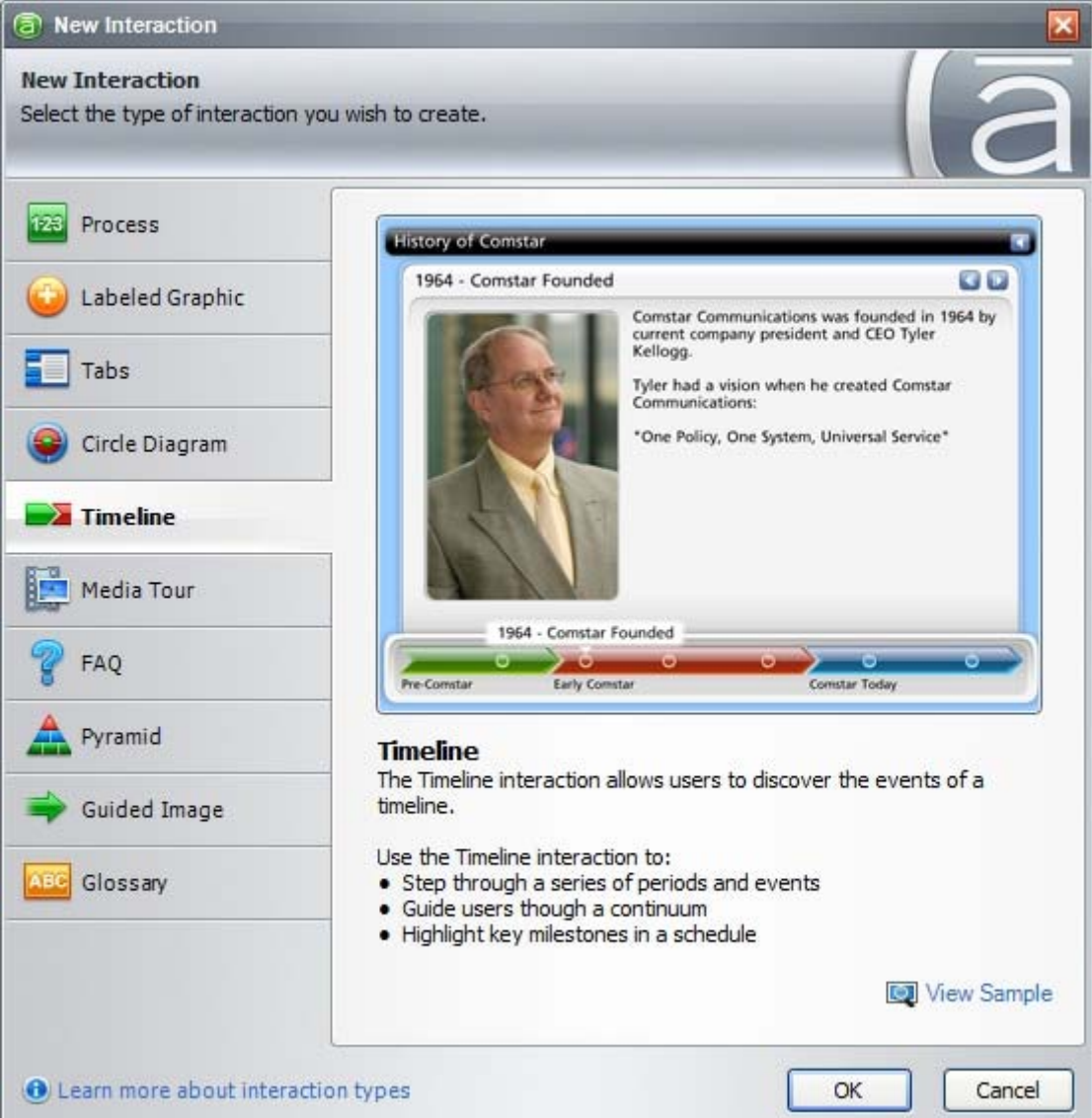
[View Sample](#)

[Learn more about interaction types](#)

OK Cancel

# Timeline

Omogućava korisniku da proučava događaje u nekom vremenskom slijedu



**New Interaction**

Select the type of interaction you wish to create.

- Process
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- Glossary

**History of Comstar**

1964 - Comstar Founded

Comstar Communications was founded in 1964 by current company president and CEO Tyler Kellogg.

Tyler had a vision when he created Comstar Communications:

"One Policy, One System, Universal Service"

1964 - Comstar Founded

Pre-Comstar Early Comstar Comstar Today

**Timeline**

The Timeline interaction allows users to discover the events of a timeline.

Use the Timeline interaction to:

- Step through a series of periods and events
- Guide users through a continuum
- Highlight key milestones in a schedule

[View Sample](#)

[Learn more about interaction types](#)

OK Cancel

# Media Tour

Omogućava korisniku da pregledava nizove povezanih multimedija (slika, video, flash)



**New Interaction**

Select the type of interaction you wish to create.

- Process
- Labeled Graphic
- Tabs
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- Timeline
- Media Tour**
- FAQ
- Pyramid
- Guided Image
- Glossary

**Comstar: Giving Back**



Environment - Comstar recognizes that the world cannot sustain itself indefinitely on carbon-based energy sources. As such, Comstar is delighted to support E+Co and its efforts to establish local clean energy enterprises.

**Media Tour**

The Media Tour interaction allows users to step through a series of related images, video, and Flash Movies.

Use the Media Tour interaction to:

- Walk through screenshots of a software application
- Create a multimedia tour from photographs and videos
- Provide a "how-to" manual from a series of images

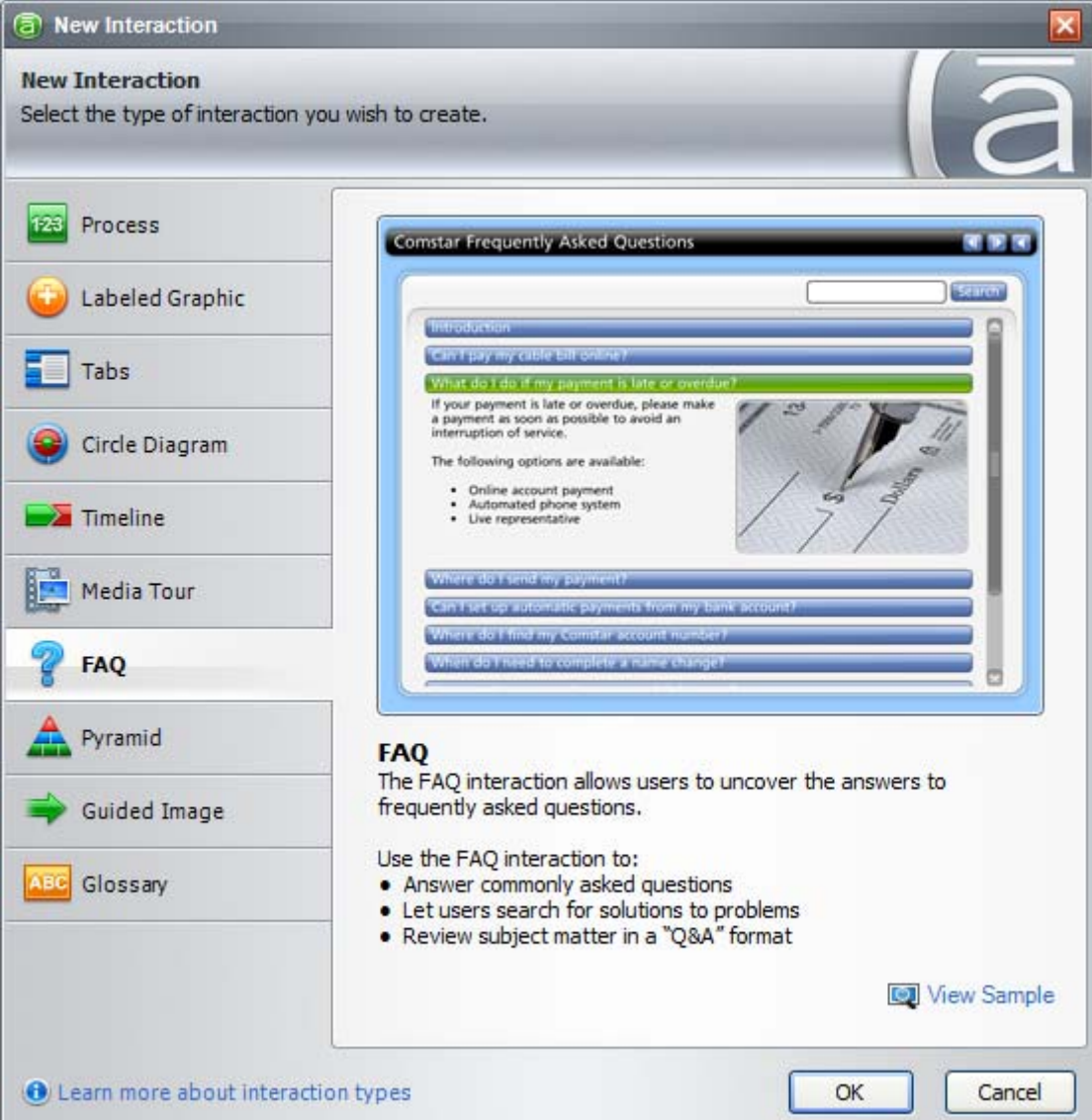
[View Sample](#)

[Learn more about interaction types](#)

OK Cancel

# FAQ

Omogućava korisniku da pregledava učestalo postavljana pitanja



**New Interaction**  
Select the type of interaction you wish to create.

- Process
- Labeled Graphic
- Tabs
- Circle Diagram
- Timeline
- Media Tour
- FAQ**
- Pyramid
- Guided Image
- Glossary

**Comstar Frequently Asked Questions**

Introduction

Can I pay my cable bill online?

**What do I do if my payment is late or overdue?**

If your payment is late or overdue, please make a payment as soon as possible to avoid an interruption of service.

The following options are available:

- Online account payment
- Automated phone system
- Live representative

Where do I send my payment?

Can I set up automatic payments from my bank account?

Where do I find my Comstar account number?

When do I need to complete a name change?

**FAQ**  
The FAQ interaction allows users to uncover the answers to frequently asked questions.

Use the FAQ interaction to:

- Answer commonly asked questions
- Let users search for solutions to problems
- Review subject matter in a "Q&A" format

[View Sample](#)

[Learn more about interaction types](#)

OK Cancel



# Piramid

Omogućava korisniku da proučava hijerarhijske veze između pojmova



**New Interaction**

Select the type of interaction you wish to create.

- Process
- Labeled Graphic
- Tabs
- Circle Diagram
- Timeline
- Media Tour
- FAQ
- Pyramid**
- Guided Image
- Glossary

**Comstar's Customers**

**Home Office**

Increasingly, Comstar customers are working from home-based businesses. This market represents 20 percent of overall revenue.

Home office sales typically include these products:

- High-speed Internet
- Wireless Internet
- Wireless phone

**Pyramid**

The Pyramid interaction allows users to explore a hierarchical relationship of related concepts.

Use the Pyramid interaction to:

- Show relationships within a hierarchy
- Compare levels of importance of related concepts
- Detail steps in a process or methodology

[View Sample](#)

[Learn more about interaction types](#)

OK Cancel

# Guided Image

Omogućava korisniku da proučava detalje neke slike ili dijagrama

**New Interaction**

Select the type of interaction you wish to create.

- Process
- Labeled Graphic
- Tabs
- Circle Diagram
- Timeline
- Media Tour
- FAQ
- Pyramid
- Guided Image**
- Glossary

**Technician Training**

**Step 4**

**Step 4: Connect an open phone line to the receiver**

In order to receive programming menu updates, the DVR must be connected to a phone line. Connect an open phone line to the DVR.

**Guided Image**

The Guided Image interaction allows users to examine important parts of an image or diagram.

Use the Guided Image interaction to:

- Step through details of an image
- Explain significant parts of a graphic
- Point out items of interest in a photo

[View Sample](#)

[Learn more about interaction types](#)

OK Cancel

# Glossary

Omogućava korisniku da otkriva definicije pojmova i fraza



**New Interaction**  
Select the type of interaction you wish to create.

- Process
- Labeled Graphic
- Tabs
- Circle Diagram
- Timeline
- Media Tour
- FAQ
- Pyramid
- Guided Image
- ABC Glossary**

**Comstar Glossary**

Select a term:

- access provider
- adapter**
- backbone
- baud
- call signaling
- e-support
- email
- Galileo
- gigaflop
- handshaking
- Java
- LAN
- Mac OS
- NT levels

**adapter**



An adapter is a physical device that allows one hardware or electronic interface to be adapted (accommodated without loss of function) to another hardware or electronic interface. In a computer, an adapter is often built into a card that can be inserted into a slot on the computer's motherboard.

**Glossary**  
The Glossary interaction allows users to reveal the definitions of words, terms and phrases.

Use the Glossary interaction to:

- Define commonly used terms
- Explain the meaning of technical acronyms
- Provide understanding of cultural phrases

[View Sample](#)

[Learn more about interaction types](#)

OK Cancel

# Articulate Engage

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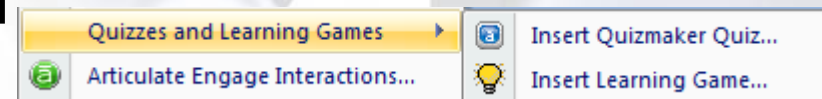
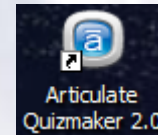
- primjeri...



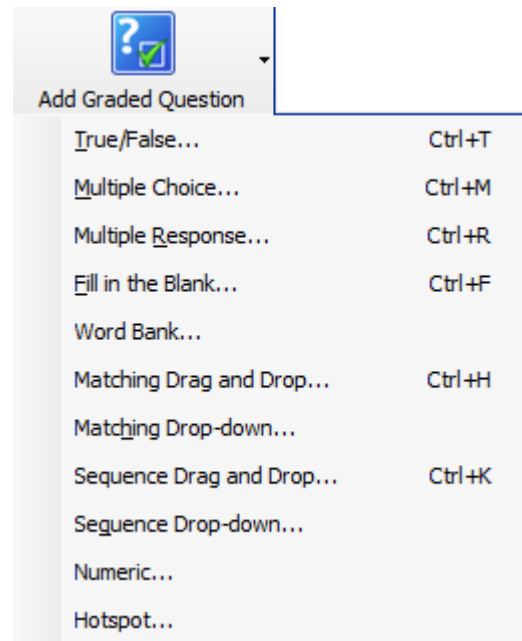


# Articulate Quizmaker

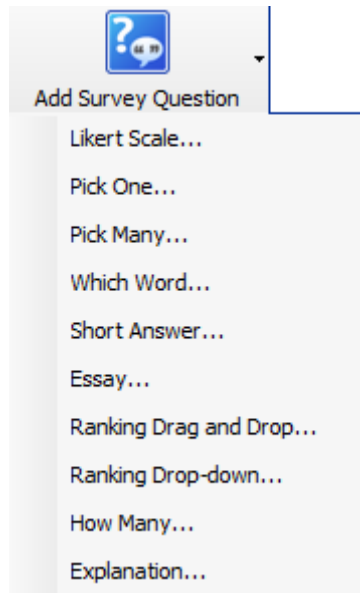
- kao “stand-alone” program
- u integraciji s Presenterom (PowerPointom)
- izrada ispita i anketa
- 21 različita vrsta pitanja
- modifikacija putem predložaka
- lokalizacija



# Ispitna pitanja



# Anketna pitanja



# Articulate Quizmaker

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- primjeri...

# Learning Management System

- software za planiranje, organiziranje, implementiranje i vođenje procesa učenja
- najčešće se koristi za online učenje no postoje i moduli za virtualne i klasične učionice
- IBM Workplace Collaborative learning, Moodle, WebCT, Saba, Oracle Ilearning

Lotus Workplace Collaborative Learning

moodle

WebCT

saba.

Oracle iLearning

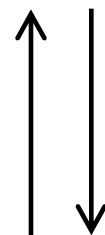
# Learning Management System

- administracija korisnika
- organizacija sadržaja
- kolaboracija
- testiranje
- skill gap analiza

# Learning Management System

- za uspješnu integraciju s LMS-om sadržaji moraju podržavati određene standarde:
  - SCORM 1.2, SCORM 2004, AICC

Learning management system (LMS)



AICC, SCORM 1.2, 2004  
elearning standardi

e-learning sadržaj

# Zaključak

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- e-learning postaje svakodnevnicica
- PowerPoint nudi lagan i brz način izrade sadržaja
- Articulate Studio omogućava jednostavno dodavanje efektnih, interaktivnih, multimedijalnih slajdova u prezentaciju
- razne mogućnosti distribucije
- **podizanje kvalitete nastave**



# Diskusija

