



# Guidelines for Developing Accessible Captive Projects



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# Guidelines for Developing Accessible Captivate Projects

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# Guidelines for Developing Accessible Captivate Projects

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## Introduction

Accessibility refers to the design of products, devices, services, or environments for people with disabilities. <sup>1</sup>The concept of accessible design ensures both “direct access” (i.e. unassisted) and “indirect access” meaning compatibility with a person’s assistive technology (for example, computer screen readers). Accessibility is about making sure that all people, including those with disabilities, can participate in and learn from your eLearning course.

<sup>2</sup>Consider these statistics:

- About 8.1 million people have difficulty seeing, including 2.0 million who are blind or unable to see.
- About 7.6 million people have difficulty hearing, including 1.1 million whose difficulty is severe.
- About 5.7 million people use a hearing aid.
- About 19.9 million people have difficulty lifting and grasping, for example grasping a pencil.

When building online learning courses, it is important to start planning your project with accessibility in mind. It will be difficult, if not impossible to take a finished product and make it accessible. The key is to plan ahead.

Accessibility is more than compliance. It is about building a good user experience. You will find that as you develop an accessible presentation, every user’s experience will improve, not just individuals with disabilities.

One of the tools DFPS frequently uses to build eLearning products is Adobe Captivate 8. Captivate 8 products are commonly rendered in these formats:

- Video
- Software Simulations
- Interactions
- Presentations

Accessibility requirements apply to all of these formats.

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<sup>1</sup> (Henry, Shawn Lawton; Abou-Zahra, Shadi; Brewer, Judy (2014). *"The Role of Accessibility in a Universal Web"*. *Proceeding W4A '14 Proceedings of the 11th Web for All Conference* Article No. 17. [ISBN 978-1-4503-2651-3](#). Retrieved 2016-2-10.)

<sup>2</sup> <https://www.census.gov/newsroom/releases/archives/miscellaneous/cb12-134.html>

## Policy

Federal and state law require that all information and services that we provide to our staff, stakeholders, clients and/or the general public be accessible to people with disabilities. The Health and Human Services Accessibility Policy and resources can be found at <http://accessibility.hhs.texas.gov/policy.asp>

## Assistive Technology

The first step to testing your projects is to become knowledgeable about how assistive technology works. Here is a list of assistive technology tools and accommodations for Captivate users with disabilities.

List of Accessibility Needs	Associated Software
Vision loss/ no vision	Screen reading software (JAWS, NVDA) Screen magnification software (ZoomText, Magic)
Hearing loss/ deaf	Synchronized captions
Cognitive disabilities	Predictive spelling software, screen reading software
Physical disabilities	Voice recognition software (Dragon), using a keyboard without a mouse, specialized keyboards Switch controls etc.

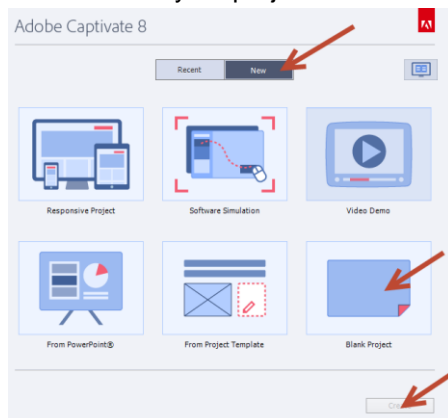
## Building Accessibility into your Captivate

It can be challenging to create an accessible Captivate, but it is possible. Start by building an accessible template for all your Captivate products.

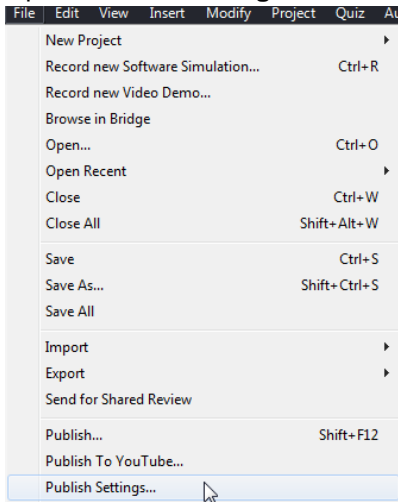
## Videos

When developing accessible videos, Captivate provides a couple of development options. We have documented the development process that renders the best results with the least effort. Follow the steps to build an accessible template then follow the next steps to create an accessible video.

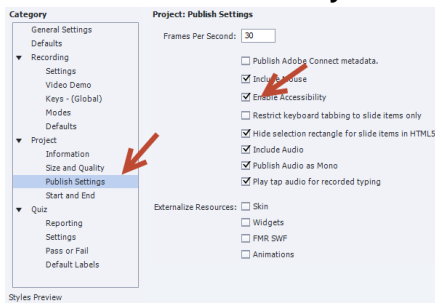
1. Write your storyboard, record your narration, and choose supplementary audio tracks. Please note that you do not have to include all these elements in your project. You may use one, two, or any combination of the three.
2. Open a new Captivate and click on **New** then on **Blank Project** to open a new project. Click **Create**. Save your project.



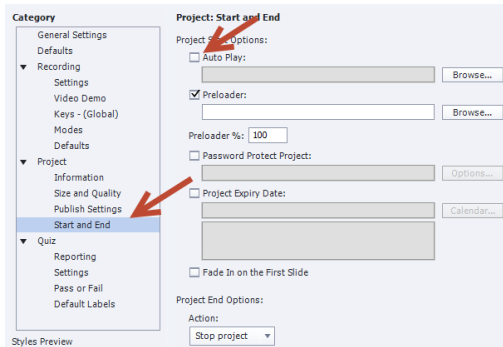
### 3. Open **Publish Settings**.



### 4. Select **Enable Accessibility**.



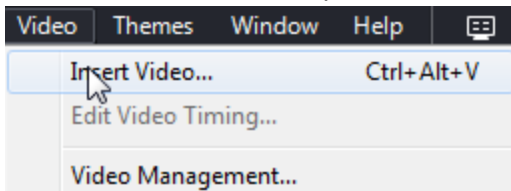
### 5. Select **Start and End**. Deselect **Autoplay**. Click **OK**.



6. Select **Project**. Type project description in **Description** box. Click **OK**.

The screenshot shows the 'Project: Information' dialog box. On the left, a tree view has 'Project' selected under 'General Settings'. The main area contains fields for Author, Company, E-mail, Website, Copyright, Project Name, and Description. The 'Description' field is highlighted with a red arrow. Below these fields, technical details like Time, Resolution, Slides, and Hidden Slides are listed. At the bottom right, the 'OK' button is highlighted with a red arrow.

7. Choose **Video** from the Captivate ribbon. Choose **Insert Video**.

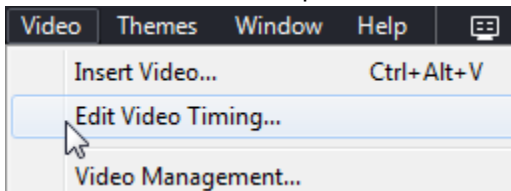


8. Click **Browse** to find your video. Double click your video.

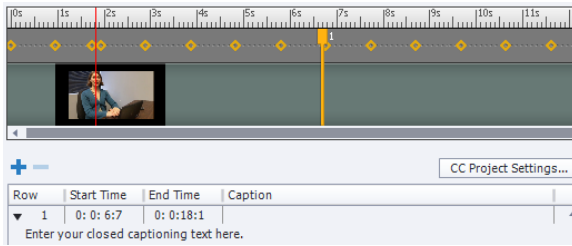
9. Choose **Multi-Slide Synchronized Video**. Choose **Modify slide duration to accommodate video**. Click **OK**. Your video will appear on the slide.

The screenshot shows the 'Insert Video' dialog box. The 'Multi-Slide Synchronized Video' radio button is selected. The 'File Path' field is highlighted with a red arrow. The 'Browse...' button is also highlighted with a red arrow. The 'Show Video On:' dropdown is set to 'Stage'. The 'Modify slide duration to accommodate video' radio button is selected. The 'OK' button is highlighted with a red arrow.

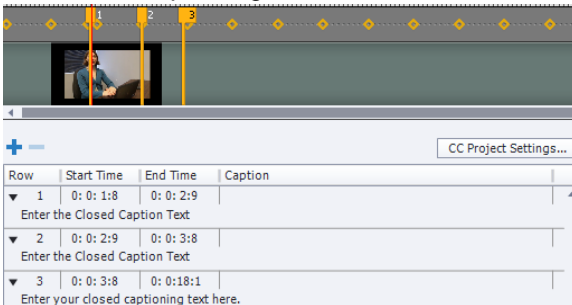
10. Click on **Video** on the Captivate ribbon. Click on **Edit Video Timing**.



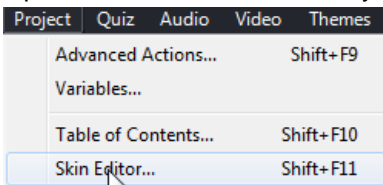
11. Click on **Closed Captioning**. Click on the **plus** sign to add text. Enter the text.



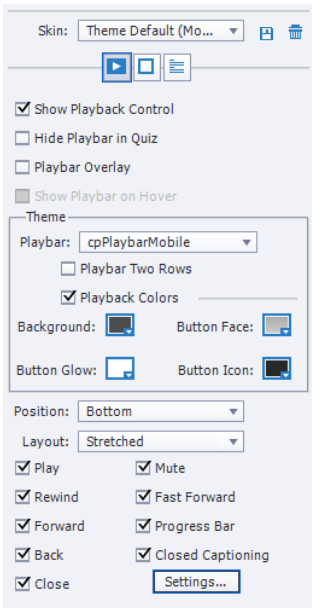
12. Move a yellow cursor to each key then click the **plus** sign to add closed captioning that synchs with that particular frame of your video. They cursor number corresponds with the row number. Add closed captioning for the entire video.



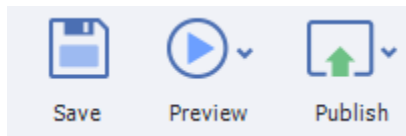
13. Open the **Skin Editor** to build your play bar.



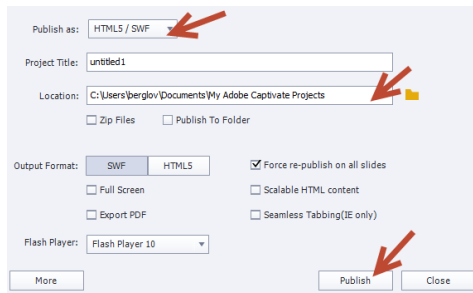
14. Customize your play bar. Select **Closed Captioning** and close the Skin Editor.



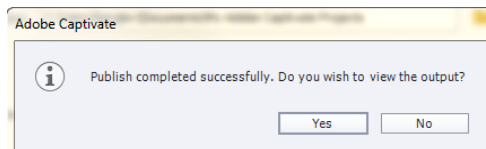
15. Click **Publish**.



16. Choose **HTML5/SWF** from the drop down menu. Choose where you want the video to live. Click **Publish**.



17. Click on **Yes** to view the video and check the closed captioning.

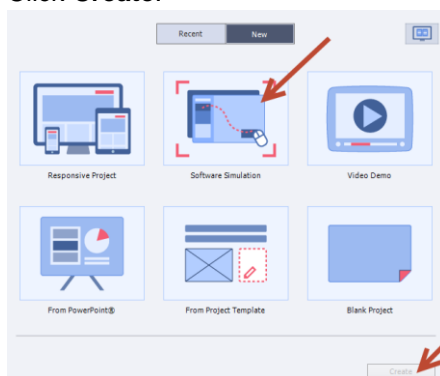


18. See the Troubleshooting section of this document if you have any problems.

## Software Simulations

You can build accessible software simulations in Captivate. Start by building an accessible template by following these steps.

1. Write your storyboard and record your narration (if you are using narration).
2. Open a new Captivate and click on **New** then on **Software Simulation** to open a new project. Click **Create**.





- Set the **Size: Screen Area** and select **Recording Type**.

Size::Screen Area:779 X 600

☒ Screen Area ☐ Application

Select the window to record

Set Capture Area to

☒ Custom Size ☐ Full Screen

Custom

779 600

Recording Type::Automatic::No Panning::No Narration

☒ Automatic ☐ Manual

☒ Demo ☐ Assessment ☐ Training ☐ Custom

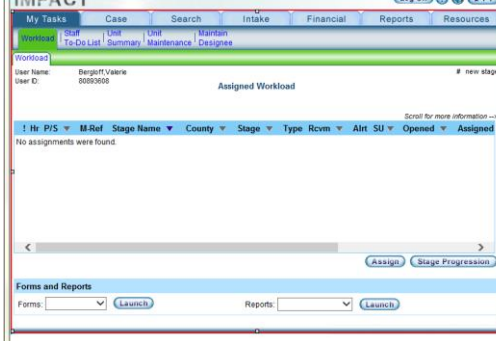
Panning: No Panning

Audio: No Narration

☐ System Audio

Settings... Record Cancel

- Set your recording area by moving the red box around the area you want to screencast.

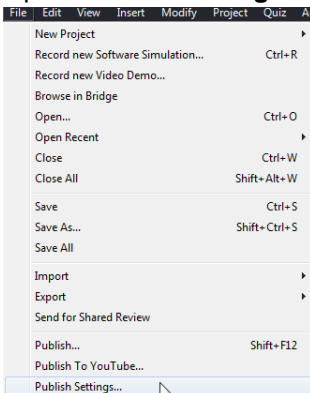


- When you are finished with your software simulation, click the Captivate icon located on your task bar.

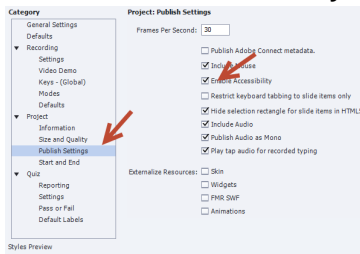


- The software simulation opens. Save your project.

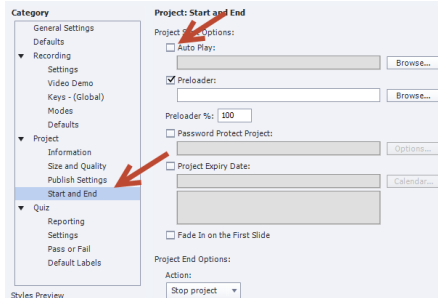
- Open **Publish Settings**.



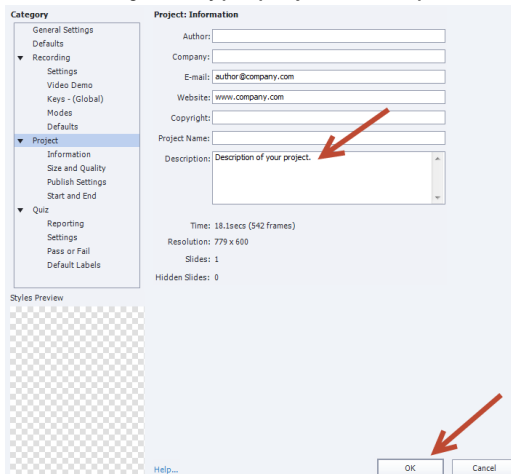
## 8. Select **Enable Accessibility**.



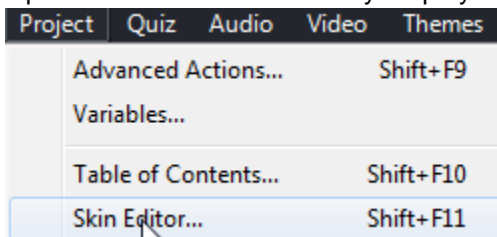
## 9. Select **Start and End**. Deselect **Autoplay**.



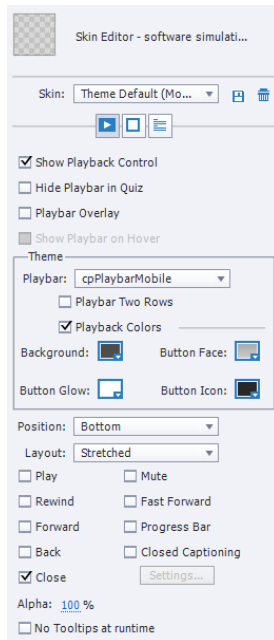
## 10. Select **Project**. Type project description in **Description** box. Click **OK**.



## 11. Open the **Skin Editor** to build your play bar.

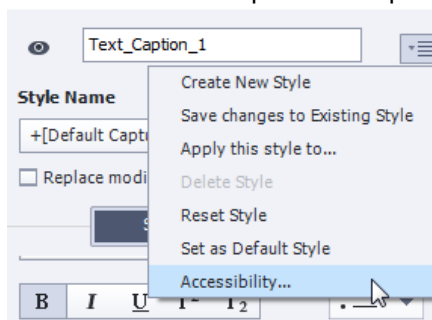


12. Customize your play bar. **Deselect** player controls and closed captioning. *If you do not use closed captioning, you need to make sure that the text on the screen and the narration convey the exact same information.*

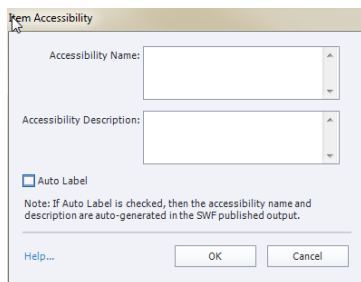


13. Determine which call outs you want to appear on the screen. Delete all extra call outs. Screen reading software does not read highlight boxes or the mouse.

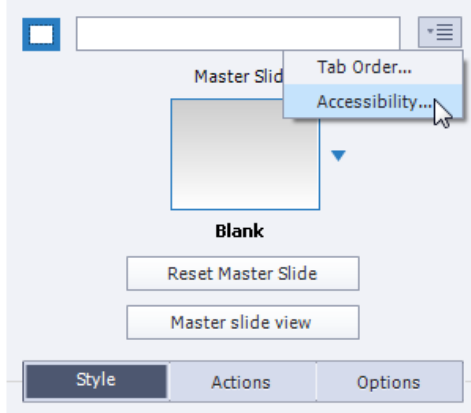
14. Click on a call out. Open the Properties Panel. Open **Accessibility**.



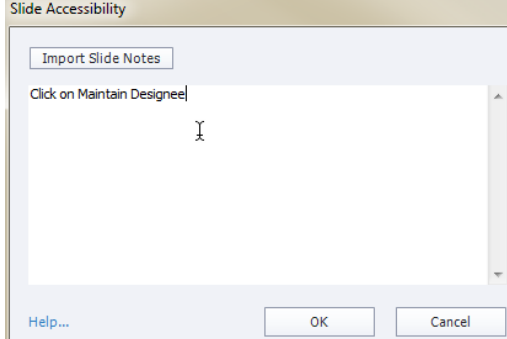
15. Deselect Auto Label. Leave **Accessibility Name** and **Accessibility Description** blank. Click **OK**.



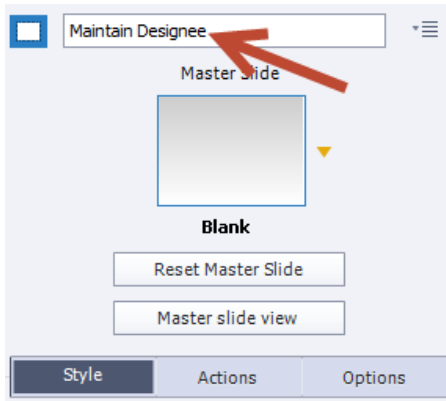
16. Click off the call out. Make sure the side menu shows that you have selected the slide, not the callout. Open **Accessibility**.



17. Enter your narration into the Slide Accessibility box or import your slide notes. Click **OK**. This step is very important. Screen reading software will read the slide notes.

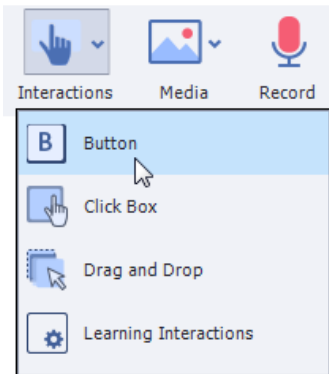


18. Enter the slide name. Choose a name based on the topic of the slide.

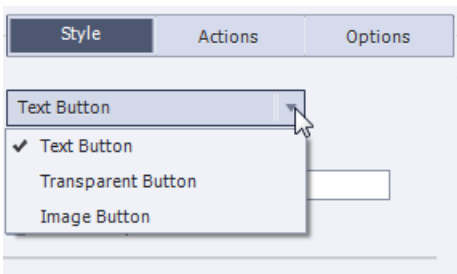


19. Repeat steps 1-16 for each slide.

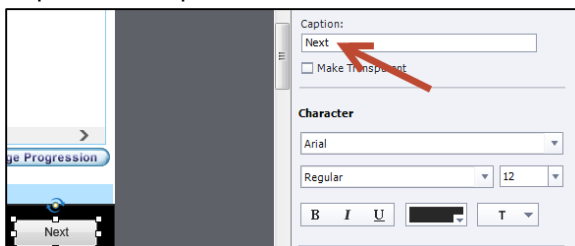
20. Insert an audio, next, and back button to each slide. Click on **Interactions**. Choose **Button** from the drop down menu. Repeat this step twice. You should have three buttons on your slide. You cannot copy and paste buttons. You must insert a new button for each interactive object on your slide. If you copy and paste, you will not be able to set tab order.



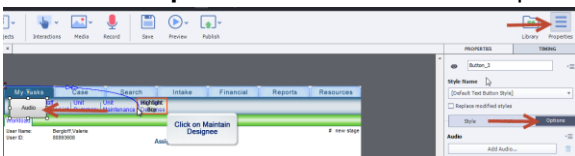
21. Click on each button and decide how you want them to appear by using the style menu. Make sure that you pay attention to color contrast. See the Design section of this document under General Guidelines. Place the buttons where you want them to appear on the slide.



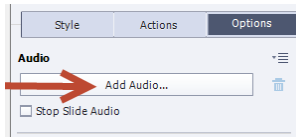
22. Name the buttons by clicking on the button and using the **Caption:** box to enter the button name. Repeat this step for the Audio and the Back button.



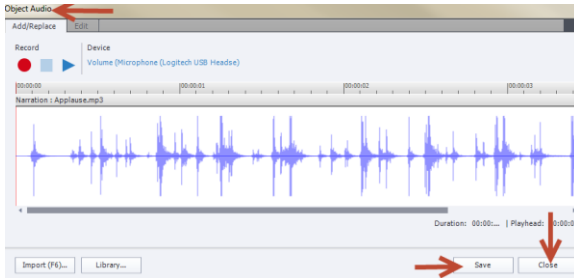
23. Click on the **Options** menu on the slide Properties menu.



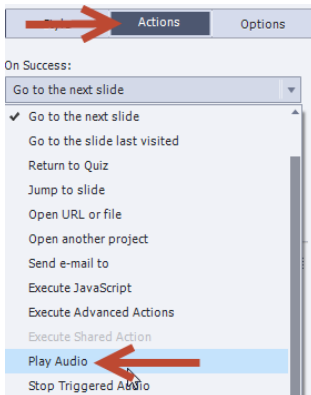
24. Click on **Add Audio**.



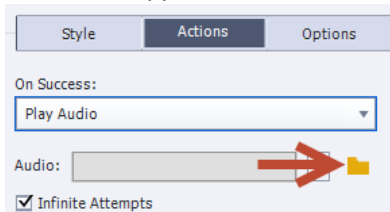
25. Import or record the audio file. Click **OK**. Click **Save**. Click **Close**.



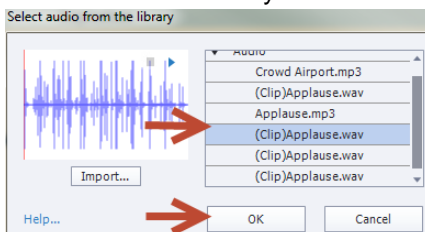
26. Make sure the audio button on your screen is selected. Click on **Actions**. Select **Play Audio**.



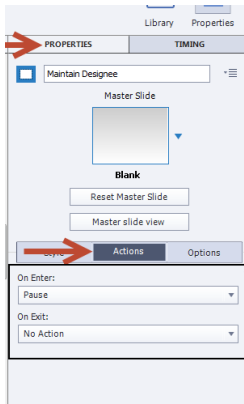
27. Audio: will appear below the On Success: menu. Click on the **folder icon** to choose an audio file.



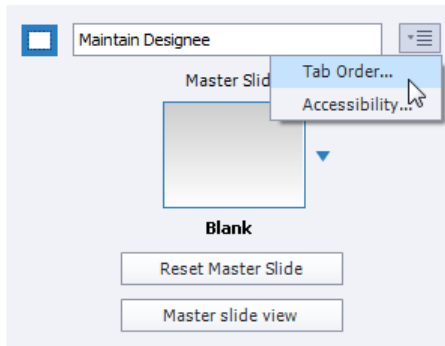
28. Choose the audio file you want to attach to the audio button. Click **OK**.



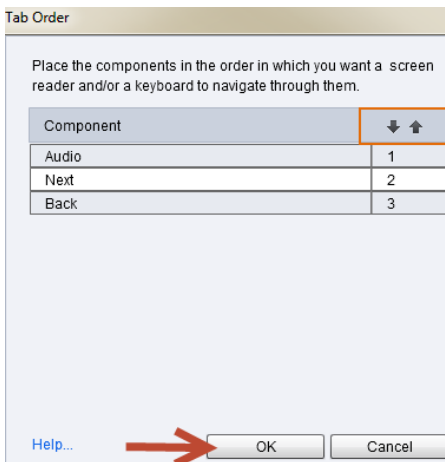
29. Click off the audio button. Set the slide **Properties** under **Actions** to **On Enter: Pause** and **On Exit: No Action**.



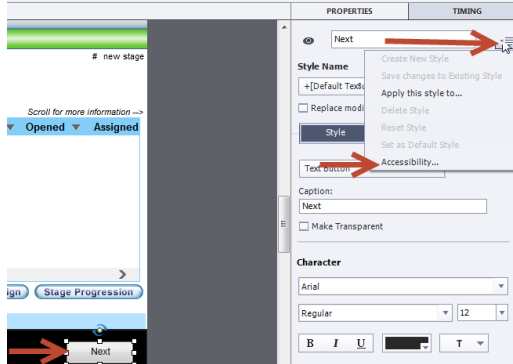
30. Set a logical tab order. Open the drop down menu under slide Properties, next to the Slide name. Select **Tab Order**.



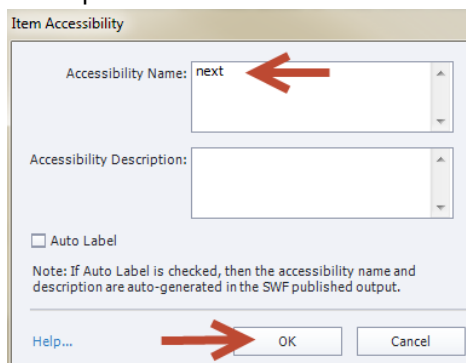
31. Use the arrows to arrange the tab order. Set the Audio button first, Next button second, and back button third. Click **OK**.



32. Name the buttons using Item Accessibility. Click on the button you want to name. Open the drop down menu next to the button name under slide Properties.



33. Deselect **Auto Label**. Type button name in the **Accessibility Name** box. Leave the Accessibility Description blank. Click **OK**.



34. Publish the slide to ensure the tabbing and buttons work. See the Troubleshooting section of this document if you have any problems.
35. Repeat these steps for each slide of your simulation.

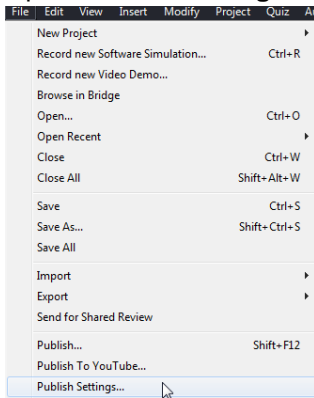
## Interactions

Building accessible interactions in Captivate is possible. You will need to use a few work arounds and will need to test and re-test your final product. Follow the steps to create accessible Captivate interactions. There are many types of interactions. Apply these steps to the type of interaction you are developing.

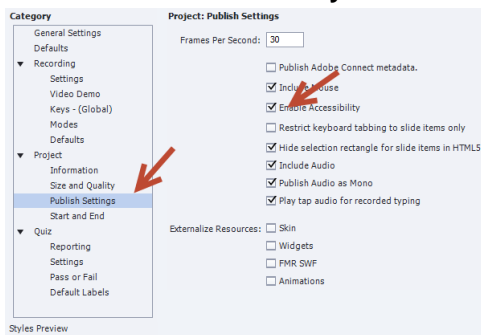
1. Determine what type of interaction you will develop. For this demonstration, we will base our instructions upon the development of an interaction with a course menu and a few different types of buttons. Start by creating an accessible template.



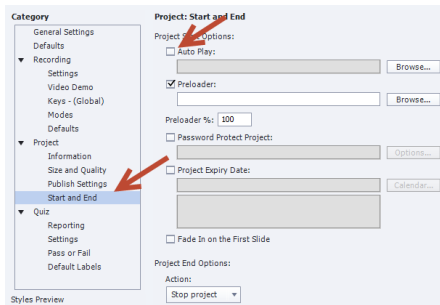
## 2. Open **Publish Settings**.



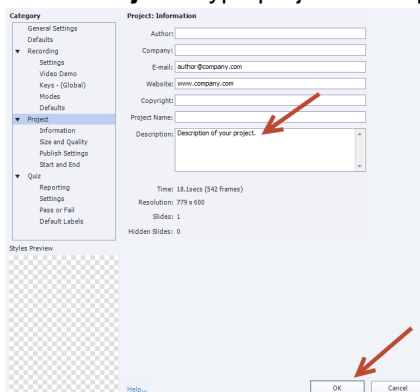
## 3. Select **Enable Accessibility**.



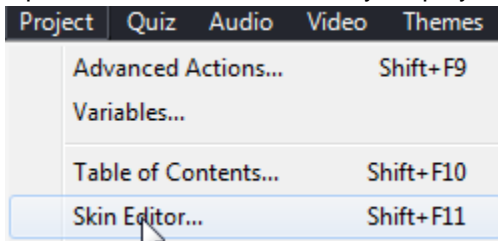
## 4. Select **Start and End**. Deselect **Autoplay**.



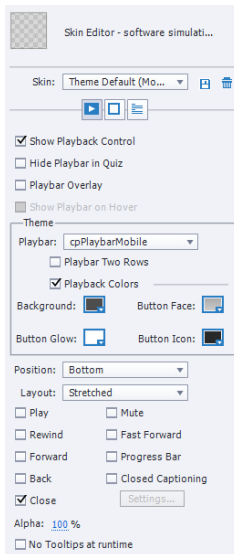
## 5. Select **Project**. Type project description in **Description** box. Click **OK**.



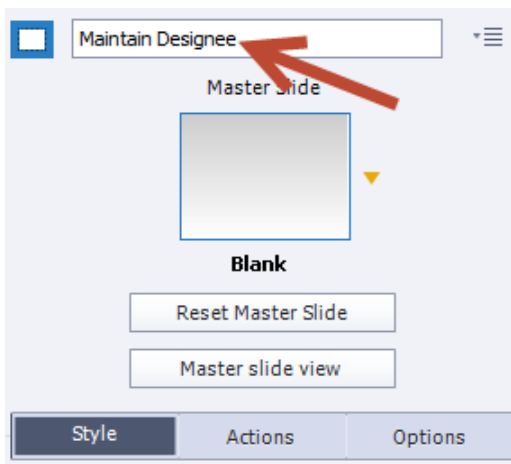
6. Open the **Skin Editor** to build your play bar.



7. Customize your play bar. **Deselect** player controls. You will add the player controls to each slide. Determine whether or not to use closed captioning. *If you do not use closed captioning, you need to make sure that the text on the screen and the narration convey the exact same information.*



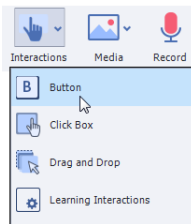
8. Enter the slide name for each slide. Choose a name based on the slide topic.



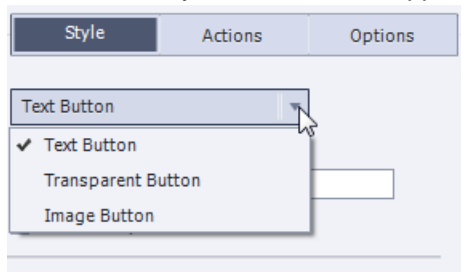
9. Each slide needs to have a next button, a back button, and an audio button. The captivate player is not accessible. You have to create these buttons on each slide. For this demo, we will use Captivate default buttons.



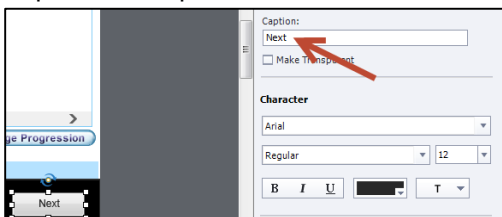
10. Insert an audio, next, and back button to each slide. Click on **Interactions**. Choose **Button** from the drop down menu. Repeat this step twice. You should have three buttons on your slide.



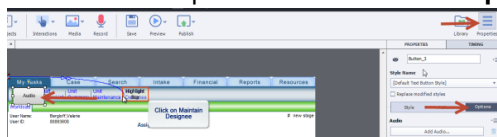
11. Click on each button and decide how you want them to appear by using the style menu. Place the buttons where you want them to appear on the slide.



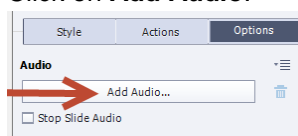
12. Name the buttons by clicking on the button and using the **Caption:** box to enter the button name. Repeat this step for the Audio and the Back button.



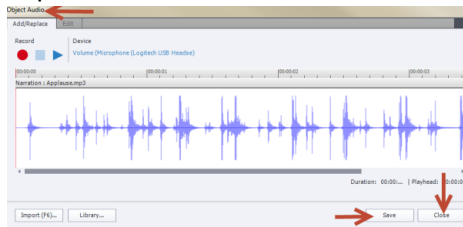
13. Import your slide narration to the button. Click on the **Audio** button. Click on the **Options** menu on the slide Properties menu. Click on **Options**.



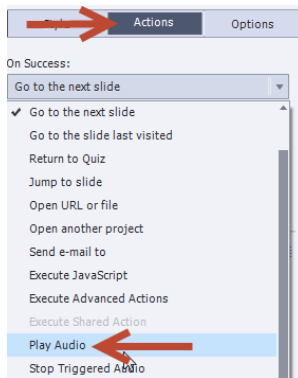
14. Click on **Add Audio**.



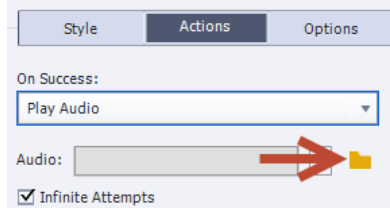
15. Import or record the audio file. Click **OK**. Click **Save**. Click **Close**.



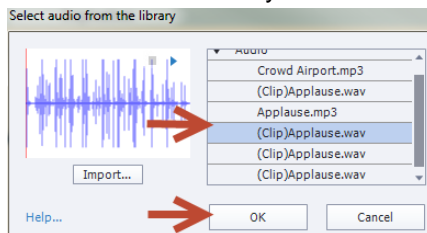
16. Make sure the audio button on your screen is selected. Click on **Actions**. Select **Play Audio**.



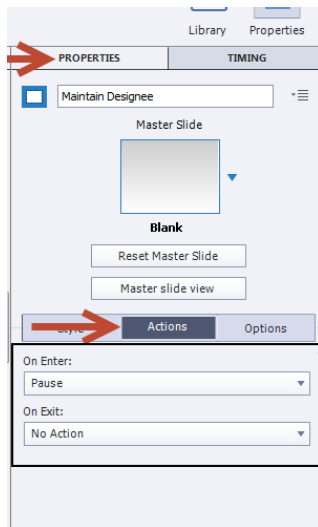
17. Audio: will appear below the On Success: menu. Click on the **folder icon** to choose an audio file.



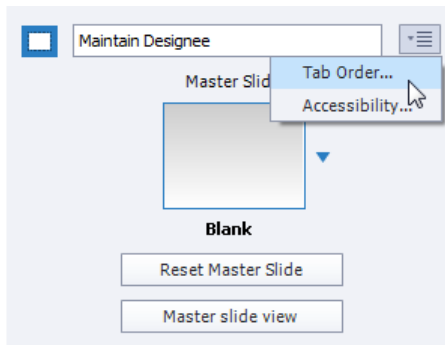
18. Choose the audio file you want to attach to the audio button. Click **OK**.



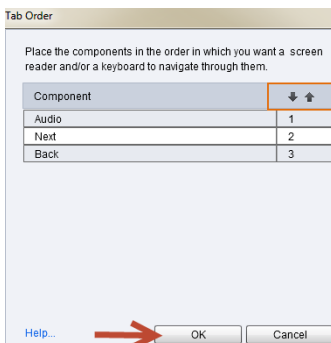
19. Click off the audio button. Set the slide **Properties** under **Actions** to **On Enter: Pause** and **On Exit: No Action**.



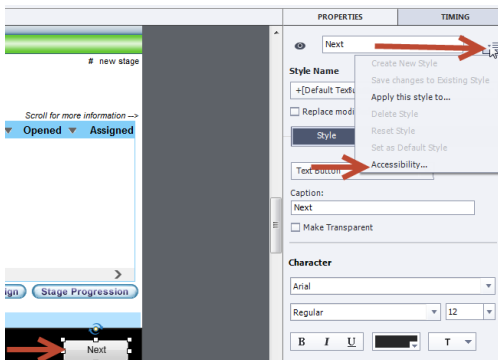
20. Set a logical tab order. Open the drop down menu under slide Properties, next to the Slide name. Select **Tab Order**.



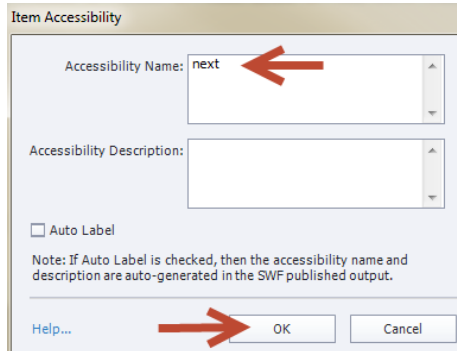
21. Use the arrows to arrange the tab order. Set the Audio button first, Next button second, and back button third. Click **OK**.



22. Name the buttons using Item Accessibility. Click on the button you want to name. Open the drop down menu next to the button name under slide Properties.



23. Deselect **Auto Label**. Type button name in the **Accessibility Name** box. Leave the Accessibility Description blank. Click **OK**.



Item Accessibility

Accessibility Name: next

Accessibility Description:

☐ Auto Label

Note: If Auto Label is checked, then the accessibility name and description are auto-generated in the SWF published output.

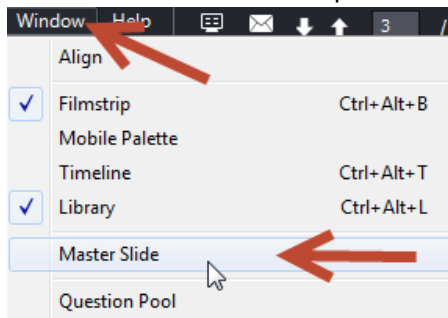
Help... OK Cancel

24. Repeat these steps for each interactive element in your presentation.
25. If you choose to use an image instead of a Captivate button, you need to place the image on a master slide and place a transparent button over the image on each slide in your presentation. To do this, follow the steps in the next section.

## Designing an Interactive Course Menu

You will follow similar steps when creating your course menu. When designing your course menu, you may want to add a background and a few other assets (boxes, lines, pictures) that make the slide look interesting. It is important that you add the assets onto a Master slide. This prevents screen reading software from reading every single asset on the screen. Do not use the **Use as button option**. Screen reading software cannot detect images used as buttons.

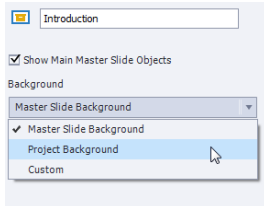
26. Click on **Window** on the Captivate ribbon. Choose **Slide Master** from the drop down menu.



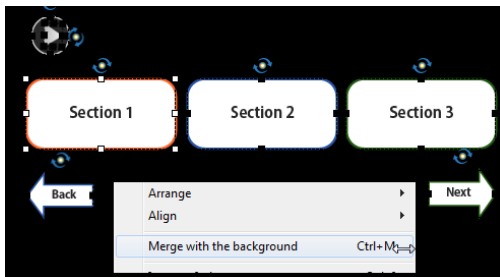
27. The **Slide Master** view opens. Design your course menu. Make sure you do not design on the **Content Master Slide** (the big slide at the top).



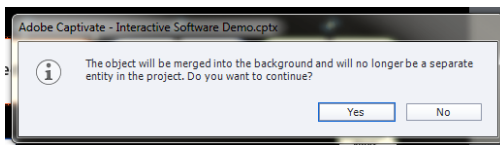
28. Look at your Slide Properties panel. Make sure the slide is set to **Project Background**.



29. Select all the assets on your screen then right Click. **Choose Merge with the background** from the menu.



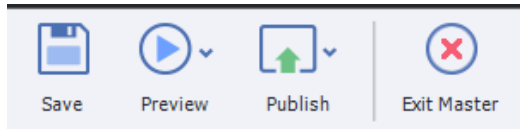
30. Click **Yes**.



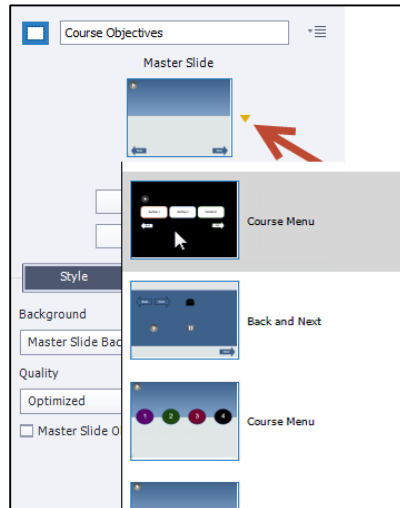
31. Now that your assets are merged with the background, screen reading software will not read the extra and sometimes confusing information that design assets can cause.



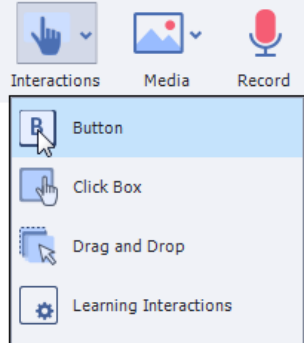
32. Click on Exit Master to close the master slides.



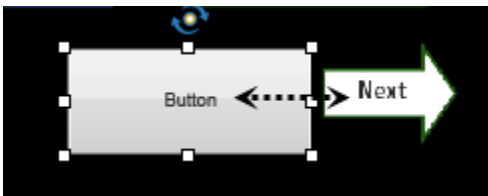
33. Choose the course menu background you just created from the Slide Properties panel.



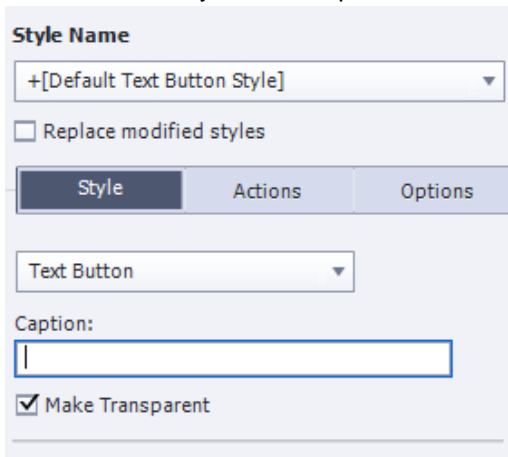
34. Place transparent buttons over each interactive object on the screen. Click on **Interactions** located on the Captivate ribbon. Choose **Button** from the drop down menu.



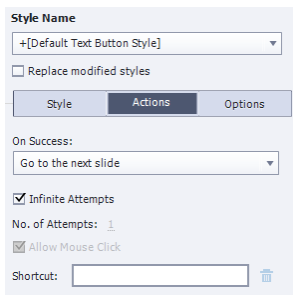
35. Position default button over Next arrow.



36. Set the button style to Transparent and delete the button caption on the Slide Properties panel.

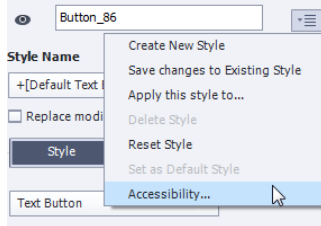


37. Click on Action in the slide properties panel and set the action to **Go to next slide**.

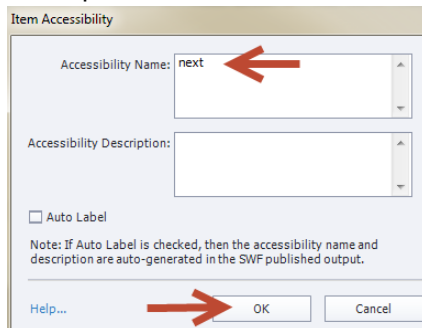


38. Follow steps 33-36 for each interactive element on your course menu slide. Make sure to customize the action for each button. See steps 13-19 to review instructions on how to customize the audio button.

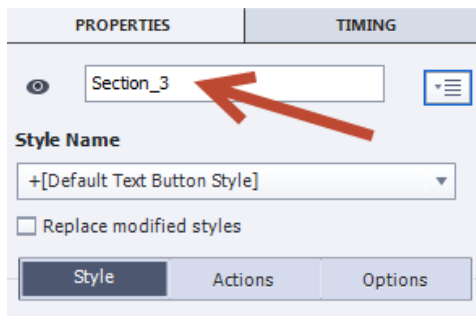
39. Name the buttons using **Item Accessibility**. Click on the button you want to name. Open the drop down menu next to the button name under **Slide Properties**.



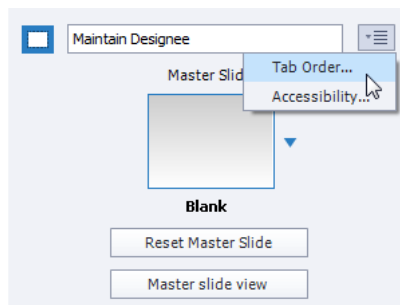
40. Deselect **Auto Label**. Type button name in the **Accessibility Name** box. Leave the Accessibility Description blank. Click **OK**.



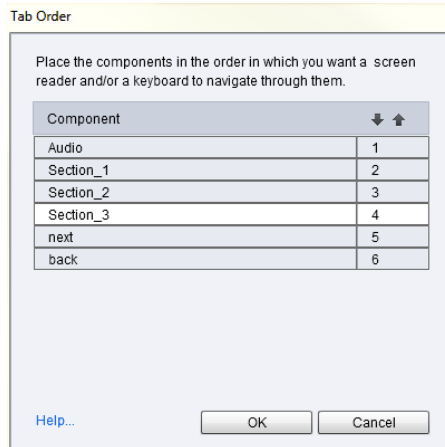
41. Name the buttons on the **Slide Properties** panel. Click on each button and change the default name to the button name.



42. Set a logical tab order. Open the drop down menu under slide Properties, next to the Slide name. Select **Tab Order**.



43. Use the arrows to arrange the tab order. Set the Audio button first, Section 1 button second, Section 2 button third, and so on. Click **OK**.

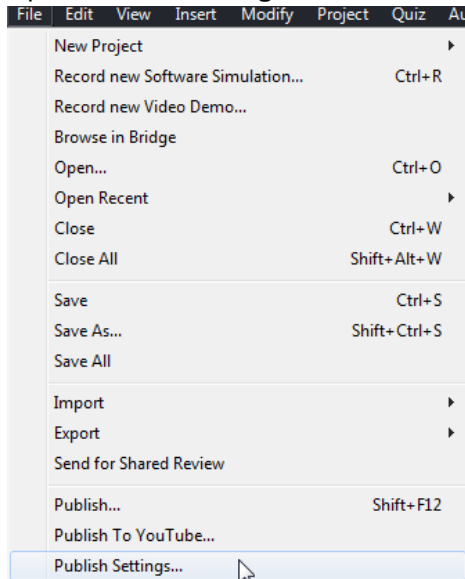


44. Repeat these steps for each interactive slide in your presentation. Note that you can use Captivate default buttons, as outlined in steps 1-24. Steps 26-42 outline the steps to use when creating a custom presentation.

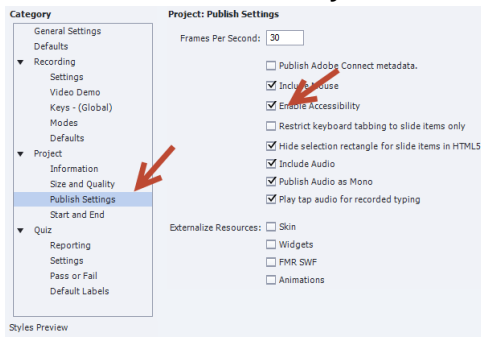
## Presentations

Making ELearning presentations in Captivate is possible. There are best practices to keep in mind. Determine if your presentation is going to use audio. Create an accessible template.

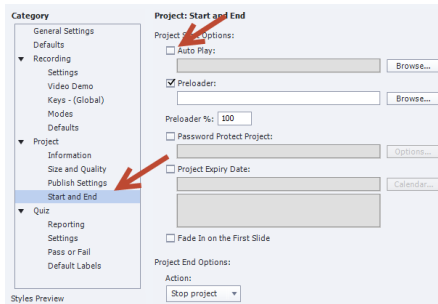
1. Open **Publish Settings**.



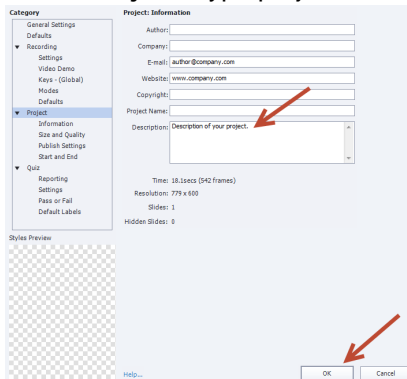
## 2. Select **Enable Accessibility**.



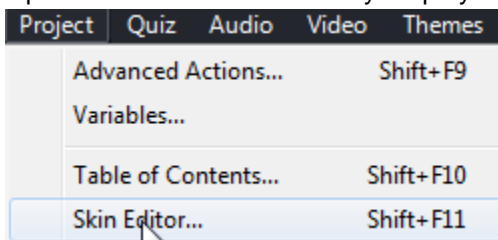
## 3. Select **Start and End**. Deselect **Autoplay**.



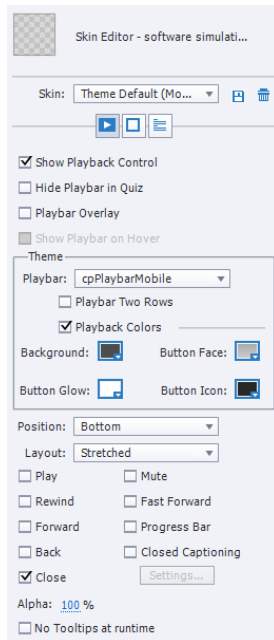
## 4. Select **Project**. Type project description in **Description** box. Click **OK**.



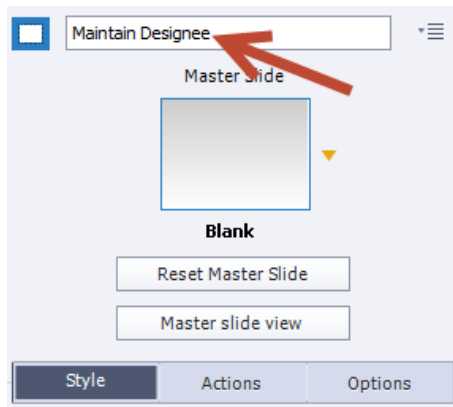
## 5. Open the **Skin Editor** to build your play bar.



6. Customize your play bar. **Deselect** player controls. You will add the player controls to each slide. Determine whether or not to use closed captioning. *If you do not use closed captioning, you need to make sure that the text on the screen and the narration convey the exact same information.*



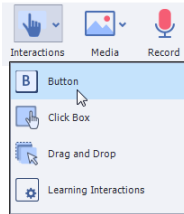
7. Enter the slide name for each slide. Choose a name based on the slide topic.



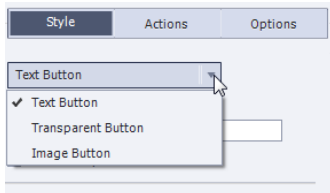
8. Each slide needs to have a next button, a back button, and an audio button. The captivate player is not accessible. You have to create these buttons on each slide. For this demo, we will use Captivate default buttons.



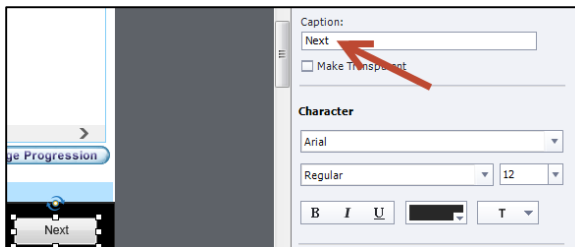
9. Insert an audio, next, and back button to each slide. Click on **Interactions**. Choose **Button** from the drop down menu. Repeat this step twice. You should have three buttons on your slide.



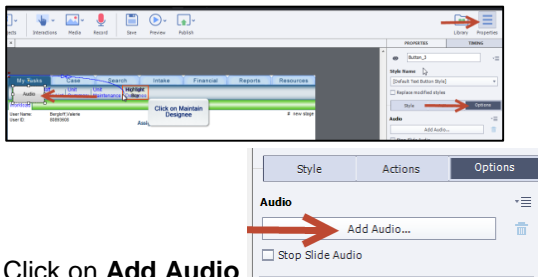
10. Click on each button and decide how you want them to appear by using the style menu. Place the buttons where you want them to appear on the slide.



11. Name the buttons by clicking on the button and using the **Caption:** box to enter the button name. Repeat this step for the Audio and the Back button.

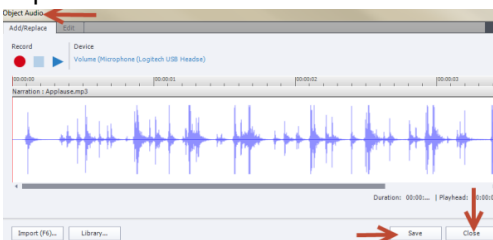


12. Import your slide narration to the button. Click on the **Audio** button. Click on the **Options** menu on the slide Properties menu. Click on **Options**.

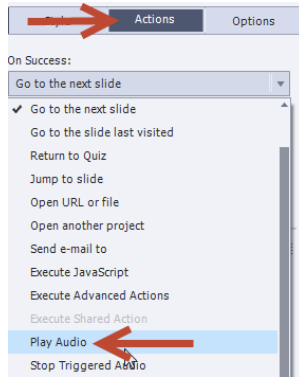


13. Click on **Add Audio**.

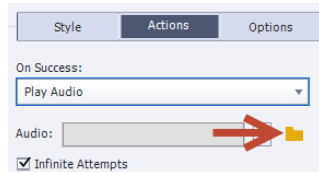
14. Import or record the audio file. Click **OK**. Click **Save**. Click **Close**.



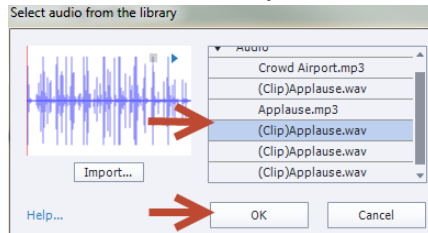
15. Make sure the audio button on your screen is selected. Click on **Actions**. Select **Play Audio**.



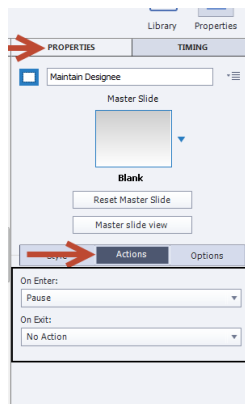
16. Audio: will appear below the On Success: menu. Click on the **folder icon** to choose an audio file.



17. Choose the audio file you want to attach to the audio button. Click **OK**.

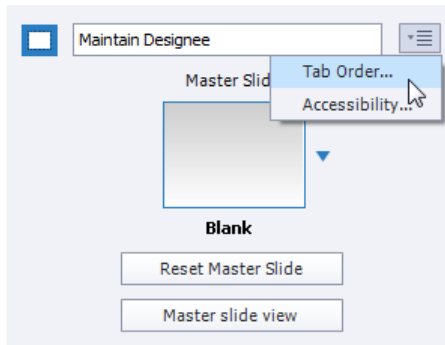


18. Click off the audio button. Set the slide **Properties** under **Actions** to **On Enter: Pause** and **On Exit: No Action**.

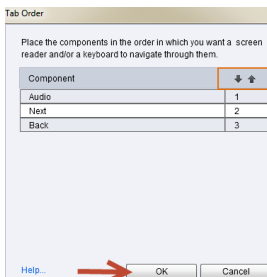




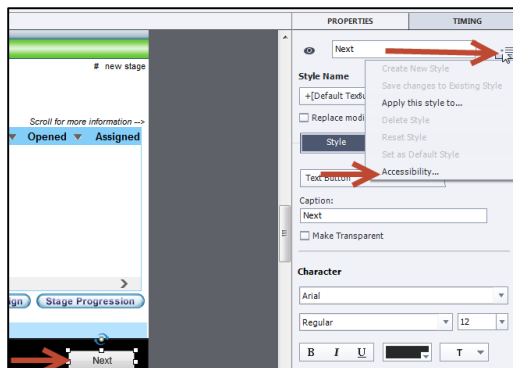
19. Set a logical tab order. Open the drop down menu under slide Properties, next to the Slide name. Select **Tab Order**.



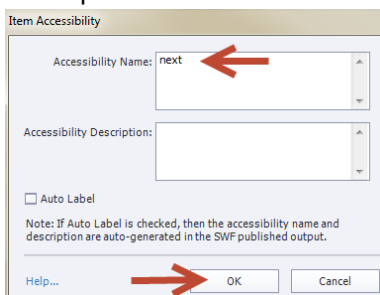
20. Use the arrows to arrange the tab order. Set the Audio button first, Next button second, and back button third. Click **OK**.



21. Name the buttons using Item Accessibility. Click on the button you want to name. Open the drop down menu next to the button name under slide Properties.

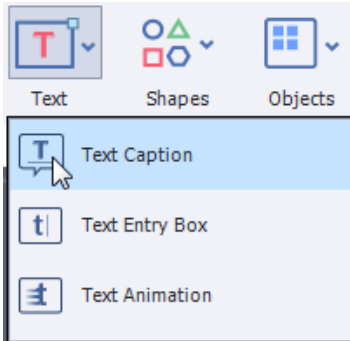


22. Deselect **Auto Label**. Type button name in the **Accessibility Name** box. Leave the Accessibility Description blank. Click **OK**.



23. Repeat these steps for each button in your presentation.

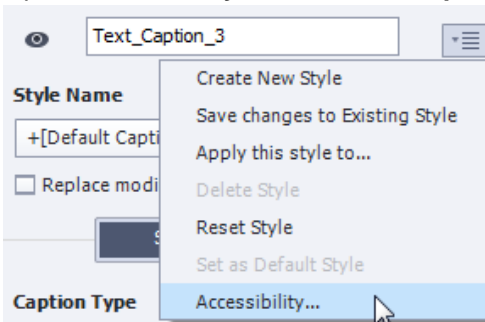
24. Add a text box to the slide. Click on Text and choose Text Caption from the drop down menu.



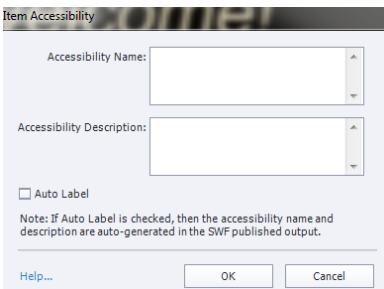
25. Enter your text. Click on the text box you just created.



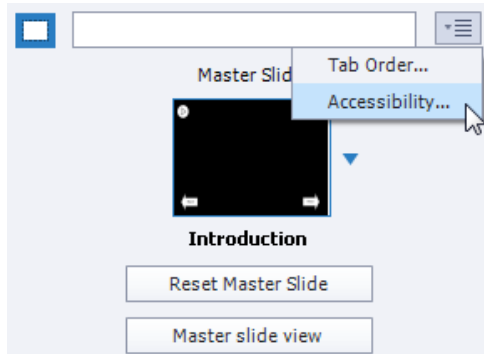
26. Open **Accessibility** on the **Slide Properties** panel.



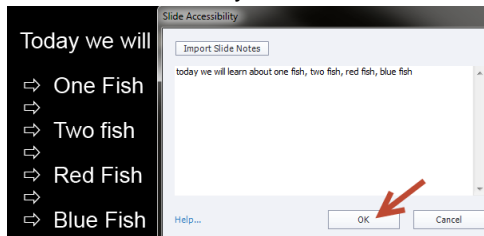
27. **Deselect** Auto Label. Click **Ok**.



28. Click off the text box. Open **Accessibility** in the **Slide Properties Panel**.



29. Enter the text from your text box into the **Slide Accessibility** window then click **Ok**.

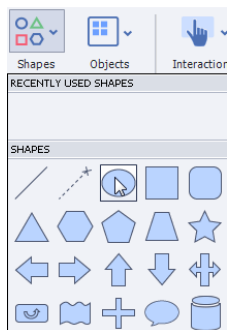


30. Repeat these steps for each text box in your presentation.

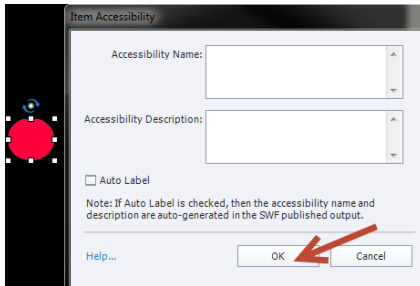
### Adding Shapes and Images

When you use shapes and images in your presentation, make sure that you use them for aesthetics, not to convey meaning. All information must written in text then entered in the Slide Accessibility window. If you use shapes or images in your presentation, follow these steps. The steps are the same whether it's an image or a shape.

31. Click on **Shapes**. Choose a shape from the drop down menu.



32. Place the shape on the slide. Click on the shape. Open the **Accessibility** window. Deselect **Auto Label**. Click **Ok**.



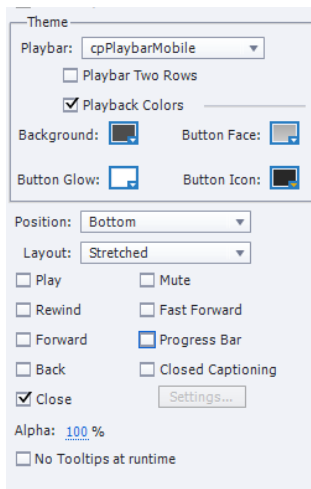
33. Repeat these steps for each image or shape you add to your presentation.

## General Guidelines

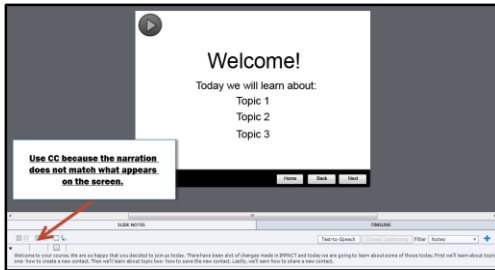
### Play Bar

The Captivate Skin Editor enables you to set the play back controls and the appearance of the progress bar. The Skin Editor is located on the Captivate ribbon under the Project menu. When determining how to build the skin of your presentation to be accessible, there are best practices to follow based upon your project.

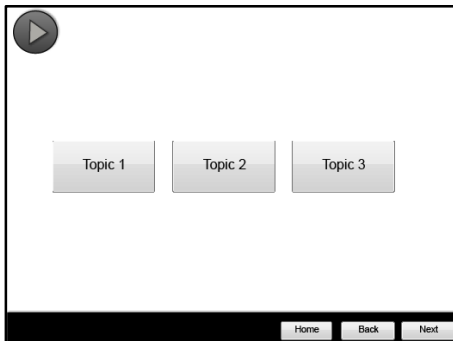
- Eliminate as many player controls as possible.



- You do not need to use closed captioning if the audio matches what is displayed on the screen. Be consistent throughout the course in how you use or do not use closed captioning.
- You should use closed captioning in lessons when the complete narration is not displayed on the screen. Please note that you can only use closed captioning when audio is imported to the slide.



- Do not use the Captivate generated TOC. It will make the presentation inaccessible. If you need to use a TOC, create a course menu slide that enables the learner to navigate through the course. Make sure to provide a "home" button on each slide that takes the learner back to the course menu.



- You may eliminate the play bar controls if you provide controls on the screen but don't use both.
- The fewer controls, the easier it is for all users to navigate the course.
- Make sure to use a next button and back button on each slide.
- Add a restart or home button on each slide.
- Add an audio button to each slide to give the learner a choice to use either the screen reader software or narrator. The slide should pause at start. The audio should be added directly to the button and set to play on click. Set the audio button first in the tab order.

- Audio Button



- Button Setting

On Success:

Play Audio

Audio: Recording3.wav

☒ Infinite Attempts

No. of Attempts: 1

☒ Allow Mouse Click

Shortcut:

- Slide Setting

Slide Title

Master Slide

Blank

Reset Master Slide

Master slide view

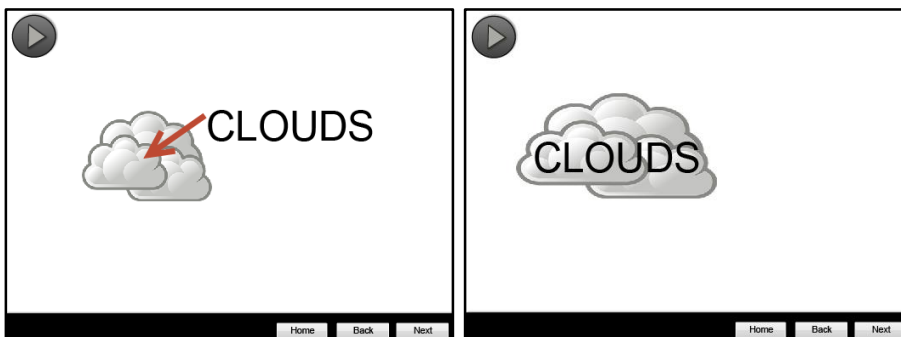
Style Actions Options

On Enter: Pause

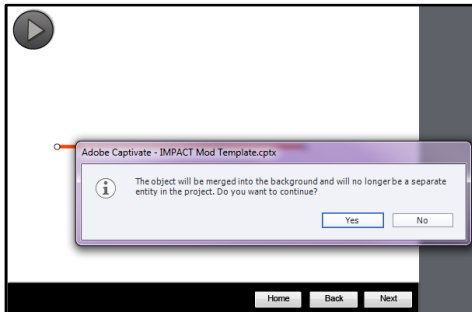
On Exit: No Action

## Images and Text Boxes

- All meaningful information (graphics, text, or software simulation) must have alternate text.
- There are many places to add alternate text in a Captivate presentation. Keep in mind that the screen reader will read ALL alternate text. Avoid duplicating unnecessary occurrences of alternate text. For example, if you add the text, "next button" to the next button, the screen reader will identify the next button as, "next button button."
- If a text box describes an image, put the image on a master slide to prevent the screen reader from reading the same information twice.
- Do not import images with text. If you want text on top of an image, create a text box and arrange it on top of the image to prevent the text from pixelating for those who use screen magnifying software.



- Screen reading software is used by many people who have vision loss. Run tests with screen reading software multiple times to ensure that software is only reading what you want read. Everyone may access JAWS and all the Microsoft accessibility tools. Submit an EMAC to download JAWS. Microsoft Accessibility Tools are located in Control Panel>Ease of Access.
- If there is something for which you do not want alternate text read, such as a decorative line, merge the item into the slide background. Click CTRL+M to merge.



## Headings

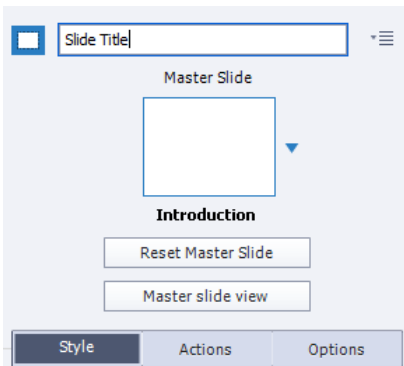
- Headings must be used in Word documents, LMS pages, and other applicable content that supports headings.
- If it is impossible to use built in headings, make sure you build your content in a way that screen reading software will read the information in a logical order. Use the alternate text to convey headings, subheadings, and/or a list. Double check to make sure the screen reader consistently reads the alternate text in the appropriate order. For example:  
If your screen displays a title and sections, the alternate text should read, "Title clouds. Section one red fish. Section two blue fish, section three green fish."

## Alternate Text

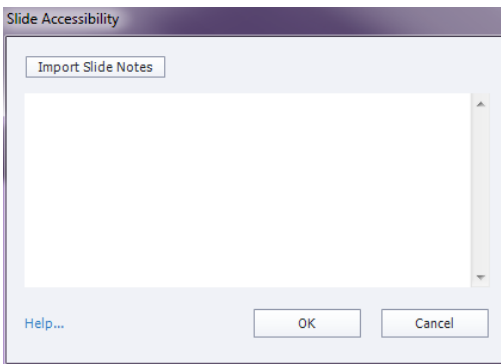
- Add a title to your course in the Publish Settings. File>Publish Settings>Project>Project Name

Copyright:	<input type="text"/>
Project Name:	<input type="text"/>
Description:	<input type="text"/>

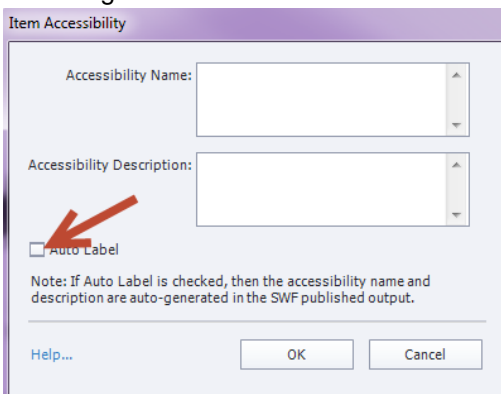
- Give each slide a title.



- Enter the alternate text into the Slide Accessibility box for each slide. Do not enter extra text in to the accessibility description boxes for slide items such as text boxes. Screen reading software will read the slide notes.



- For slide items such as text boxes, open the accessibility field and unselect “auto label”. Never add text in the slide accessibility **and** in the accessibility boxes per slide item. Screen reading software reads both which creates an unnecessarily repetitive experience for the user. Enter the accessible text into the slide accessibility box **ONLY** to prevent possible issues with the screen reader and Captivate. This rule also applies to all slide items you place on the master slides excluding interactive elements such as buttons.



- You must enter text into the accessibility box when using buttons and other interactive items. When entering accessibility text on a button, do not enter extra information. For example, do not



call the next button, “next button”- call it “next.” Screen reading technology will identify a button as a button, or a link as a link, and so on.

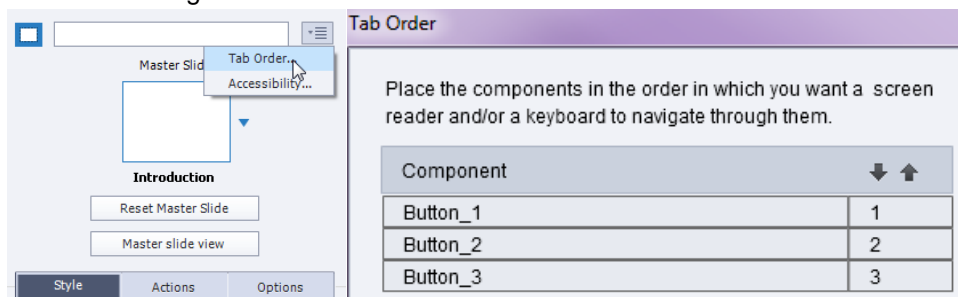
Accessibility Name: next

Accessibility Description:

- The screen reading software does not read highlight boxes. Use them if you'd like but make sure that the information the highlight box conveys is also available in the slide notes and in the narration.
- Make sure that you spell everything correctly. Screen reading software mispronounces misspelled words which creates a bad user experience and inhibits learning.

### Tab Order

- Set the tab order to begin at the top of the screen so the screen reader will read the slide contents in a logical order.

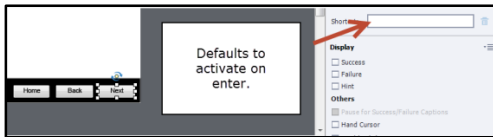


- Make sure that each item that can be reached using the tab button is outlined/highlighted so that the user receives a visual queue as to where they are on the screen. This is very important for people who do not use a mouse.
- Make sure that all active controls or clickable objects can be reached using the tab key.
  - If you are having trouble setting tab order, go back into your project, delete the buttons, and insert new buttons. Never copy and paste buttons. Insert a new button for each interactive object on the slide.

### Buttons

- Add alternate text to buttons.
  - In Adobe Captivate 8, in order for the keyboard to tab through the buttons, you must use a Captivate generated button or place a transparent button over an image you create- you cannot convert a shape or image into a button by selecting “Use as button.” If you choose to use your own image with a transparent button, paste the image on a master slide.

- Always check the tab order using the keyboard only. The tab order should be intuitive and predictable. (Generally, from left to right from the top to the bottom of the slide.)
- Button names should be short yet meaningful. For instance a button that takes the user to Home should be titled “Home” not “Button 3.”
- Do not copy and paste buttons. You must insert a new button for each interactive object on your slide. If you copy and paste buttons, you will not be able to set tab order.
- The next button should work with “enter” and “spacebar”. People using assistive technology will use the “enter” key to submit. When using Captivate, the enter key is set as default. Do not set shortcut key commands- this can cause the slide to become inaccessible.



- The spacebar is standard for pressing a button when using assistive technologies.
- Provide training to participants on how to use the buttons if you set buttons to behave out of the norm.
  - Norm:
    - arrow keys are used to move an element that scrolls
    - spacebar presses a button
    - tab key to move between controls and other clickable elements on the screen
    - spacebar to start or move forward
    - enter key to submit or activate a button
- If you are having trouble making your buttons operate the way you need them to, delete them and insert new buttons. Never copy and paste buttons. Insert a new button for each interactive object on your slide.

### Learning Interactions

- When developing an interaction, put the mouse aside and make sure that you can navigate the interaction in a logical and intuitive manner.
- Use standard key controls. <http://webaim.org/techniques/keyboard/>
- If you do not use normal key controls, provide instructions.

### Universal Symbols

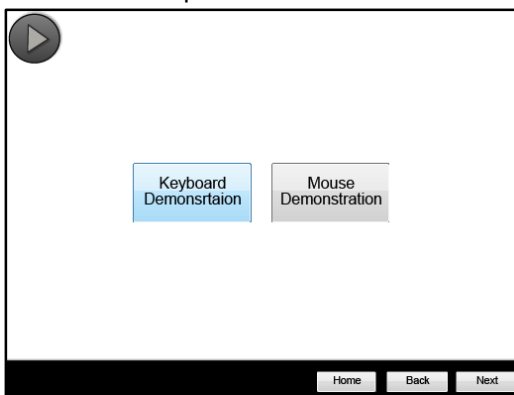
- Avoid redundancy. Providing too many instructions is confusing. The following buttons are universal symbols, and it is not necessary to describe their functions. For example, do not tell the user to “click next to continue” at the end of each slide.
  - Play button
  - CC button
  - Next buttons
  - Back buttons
  - Pause button
  - Close button
  - Close browser button

- Include an accessibility button on each slide and on the LMS homepage that is linked to a website or document that provides help for people who are using assistive technology.



### Navigation without a Mouse

- When developing software demos, it is important to illustrate, visually or through audio, how someone will navigate the software without a mouse. This also allows you to test the software you are training for accessibility and provides the opportunity to give the developers a heads up if the software is not accessible.
- When you create a software demo, you may branch the course into 2 parts- Mouse –users & Keyboard Users. Record the demo once, using a mouse, and a second time using keyboard controls to complete tasks with the software. Give the user the choice of which demo to enter.



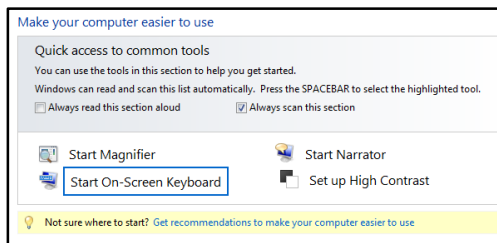
### Video

Video presents some unique challenges when it comes to accessibility. People who are deaf can't hear the audio but can read the screen; and people who are blind can hear the audio but can't see the screen. Some videos can move too quickly for those with cognitive disabilities to process. When rendering your Captivate project as a video, you must incorporate principles of accessibility.

- Make sure to enable closed captioning.
- Time the closed captioning to match the audio and the events on the screen.
- Include subtitles and a description of important sounds when appropriate. For example, “(music playing) Welcome to your course.”
- Consider providing a text only version of the video. Ensure there is enough information in the text to get across your message without images.
- When using text and color in your video, use large text, use colors that are high contrast, and leave the text on the screen long enough to be read comfortably.
- Do not set the video to play automatically. Let the user decide when the video starts.
- Don't use flashing content. Flashing content may cause seizures.

## Assistive Technology Testing

- Always test your courses with assistive technologies and with the keyboard without using the mouse.
- Turn off your computer screen and make sure that the user can navigate your product using only key controls.
- JAWS is available for download but you must submit and EMAC. [Click here](#) to submit and EMAC.
- Test your product's contrast using your computer's Microsoft Ease of Access Center located in the Control Panel. (Push Left SHIFT+Left ALT+ Print Screen to open the Microsoft Ease of Access Center.) [Click here](#) to open the Web AIM color contrast tool and to read the minimum requirements.
- Test your products using the magnifier tool also located in the Ease of Access Center located in the Control Panel.



## Step by Step Software Demos

Software simulations are an effective way of teaching your user how to use new applications. When building software simulations, there are a few things to keep in mind.

- Build one step at a time. Pause each slide of the demonstration by adding a next button. This also allows the user take time to either listen to the slide audio or the screen reader.
- Allow the user to move backwards so they can review the steps being taught.

## Design

- Select foreground and background colors that provide a luminosity contrast ratio that exceeds 4:5:1. There are multiple color contrast checkers online. [Click here](#) to visit the online tool.
- Make sure your images are placed far enough apart as to allow assistive technology to zoom in and out.
- Do not convert text to pictures to avoid pixilation.
- Make sure that the text on the screen, alternate text, and narration say the same thing.

## Best Practices

- Offer choices. Learning is more effective when the learner is in control of their learning.
- Do not take away player or browser controls or “lock” people into a course. This creates barriers for assistive technology, keyboard users, and other people who need custom browser settings.

- Do not lock browsers or dimensions of the player screen. This creates barriers for assistive technology and for people who need to use their browser to increase the size of the text or the images.
- You may offer two versions, one accessible and one not, in one course. Use branching to allow the user to choose one path or the other. Only do this if you have exhausted all other options.
- Use plain language and eliminate unnecessary narration. For example, instead of describing where a link is located on the screen, just add a call out and tell them to click the link.