



Ver. 4 DEMO GUIDE

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Note: All red chapters in the table of contents are added in this version of the document compared to previous version. There are some minor changes in black ones as well.

Description

This demonstration is designed to help show the capabilities in AudaxCeph Cephalometric Analysis Software. We will cover the following sections:

- Patient management
- Orthodontic images management
- Analysis execution
- Technology behind AudaxCeph
- Superimposition of analyses
- Superimposition of images
- Analysis type creation
- Digital filtering
- · Tips and candies

- Snippet demos
 - Structural superimposition method
 - MBoxes
 - Wiggle chart
 - Automatic calibration
 - Software layout
 - Convergence point
 - Parameters
 - Excel export

Setup Instructions

- Have AudaxCeph installed in C:\AudaxCeph folder. It could be another folder which will be referred as home folder.
- Request demo files from Audax and put them into home folder\Analysis.
 - o Demo files are:

1.jpg	ExcelExportTemplate.xlt
1st-stage.jpg	latXray.jpg
2.jpg	logo.png
2nd-stage.jpg	MK-latPhoto.jpg
ANB.png	MK_1.acx
Barb_House_29_12_2015_	MK_2.acx
A_1.acx	NA.png
demoAudaxCeph_1.acxT	NB.png
demoDICOM.dcm	occlusalPlane.png

SellaNasion.png SellaTurcica.png

techAxCEPH.flv

standardValues-demo.xls

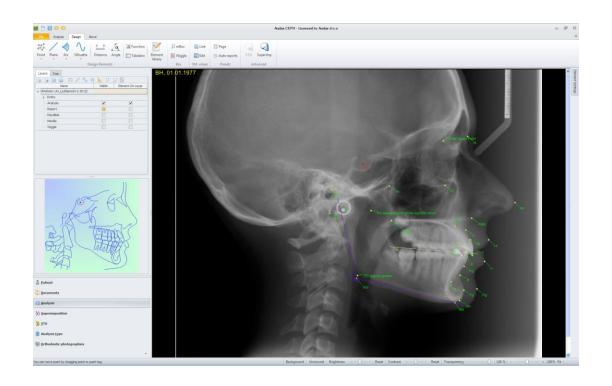
SNA.png SNB.png

Wits.png

AudaxCeph

- Copy file demoAudaxCeph.acxT in home_folder\AnalysisTypes.
- Open AudaxCeph.
- Select About tab → Language and choose appropriate language for your demonstration. Press OK.

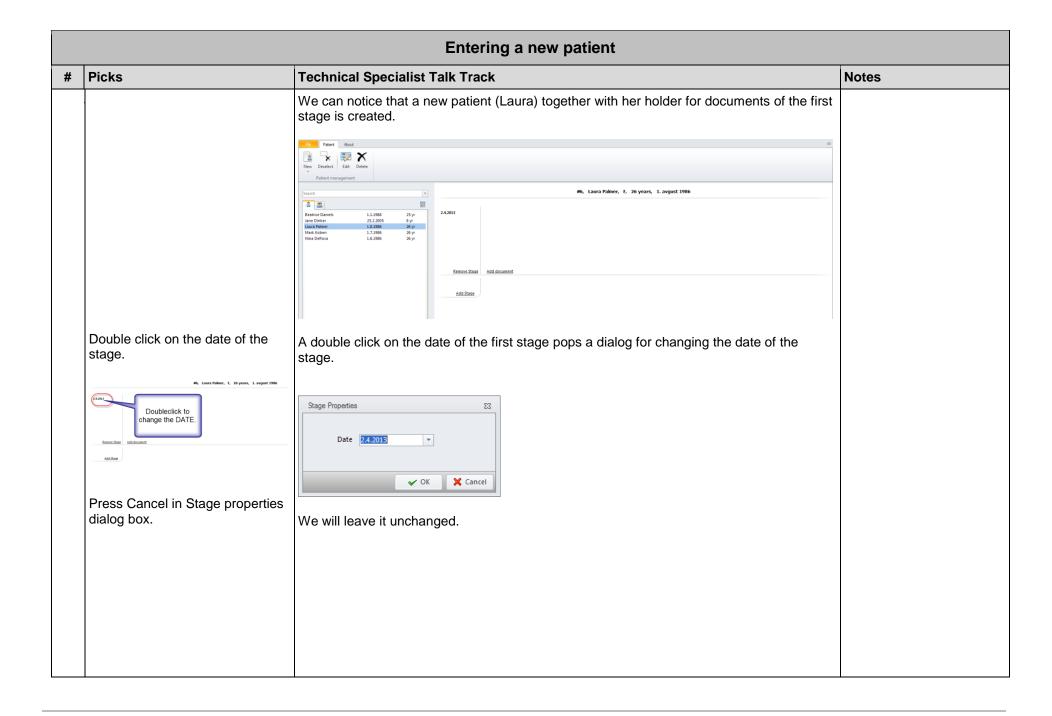
- In order to show Excel export/import functionalities, have MS Excel installed
- open MS Word with a blank document
- In analysis mode have Element settings dialog hidden (see image below)



UI Overview			
#	Picks	Technical Specialist Talk Track	Notes
	Click on tabs to show how application have different	Hello and welcome to the Audax Ceph demonstration. We're going to start our demo with a user interface. On the top of the application is a ribbon. It acts like ribbons in other software. By choosing a tab, you may switch between different action groups.	
	commands Double-click on a ribbon tab so that ribbon hides. Double-click on a ribbon tab so that ribbon appears again. Repeat this using Ribbon Hide/Show button.	A double-click on a ribbon tab hides the ribbon with icons and another double-click brings it back again. We can use the Ribbon Hide/Show button for this purpose as well. This is an effective way to add additional vertical space to the application's canvas (working area) on a lower resolution monitors. Adda: CEPH-Licenced to Andrea d.o. Ribbon Hide/Show button Ribbon Hide/Show button	
	Click on ribbon tabs About	Audist CEPH - Licenced to Audist dio o Audist CEPH - Licenced to Audist dio o Audist CEPH - Licenced to Audist dio o CE Audist CEPH - Licenced to Audis	
	Click Language and show the options. Click OK .	AudaxCeph speaks different languages. The demonstration you are about to see uses English version of language. But one can easily use other options and choose the desired language. The user interface language will change at the next restart of the application.	
	Click Skin box and chose some skins.	If you prefer another UI color scheme you may choose one from predefined skins. If you like blue, then choose blue. I find the grey skin very rich and nice. If you like fruits like an apple, you may choose McSkin.	

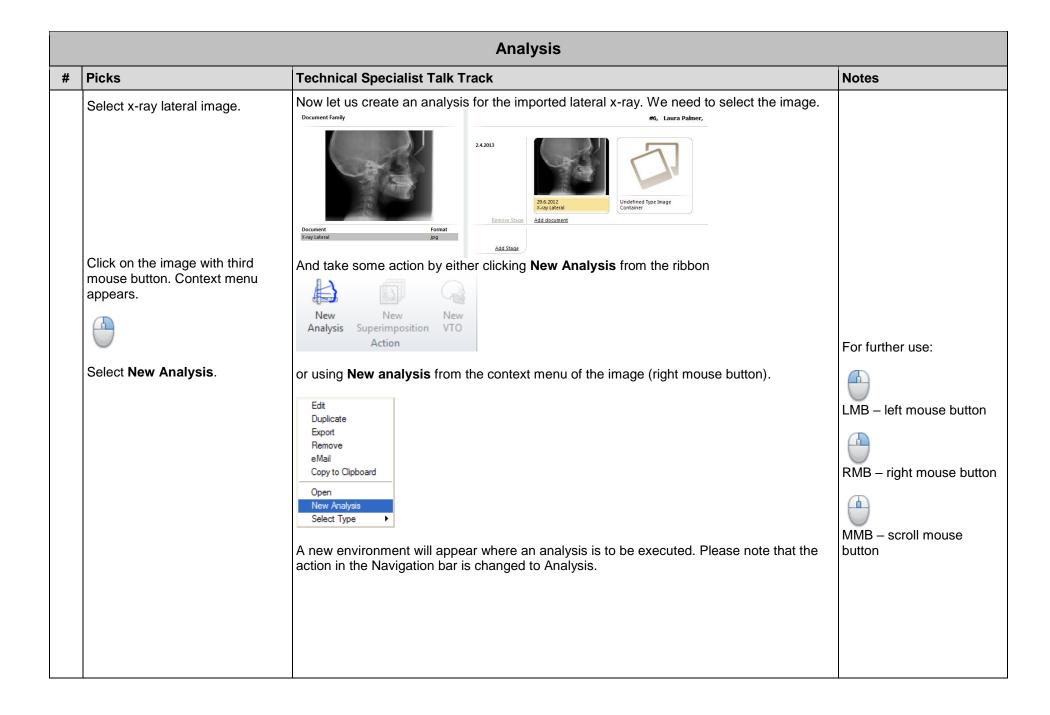
#	Picks	Technical Specialist Talk Track	Notes
	Click different options from the Navigation bar	Now we will start with what every orthodontist does every day. Different applications can be chosen from the Navigation bar on left bottom where we can choose between managing Patients, Documents, creating Analyses, Analysis types,	
		Federal Road Road	
	Click between options on the Navigation bar.	Switching between options shown appropriate environment for a desired task. Navigation bar can be made smaller by dragging the upper splitter.	
	Drag the navigation bar splitter up and down	© pocuments Splitter Drag up and down) Superimposition) YTO © Analysis type © Qrthodontic photographies Drag up and down Splitter Drag up and down Drag up and down Splitter Drag up and down Analysis Patient Drag up and down Analysis Patient Drag up and down Analysis	
	Leave it opened entirely up.	We will leave all option applications opened.	

	Entering a new patient		
#	Picks	Technical Specialist Talk Track	Notes
	Choose Patient from the Navigation bar.	A new patient record can be created by entering some personal data or from a Dicom file using the data inside it.	
	Click New New	Let us enter some data: Laura Palmer 1.8.1986 Female	
	Enter Laura Palmer for patient, 1.8.1986 for Date of birth, Female gender.	Patient Laura Palmer Date of birth 1.8.1986 Gender C Male © Female	
	Active should have a Tick, which is there by default, when creating a new patient record	Telephone GSM Email Address	
		Description Outside ID ✓ Active ✓ Save ✓ Discard	
	Press Save button.	And confirm the creation of the record. You may notice that computer calculates the age of the patient automatically. This can be useful when standard values are based on patient age and/or gender.	



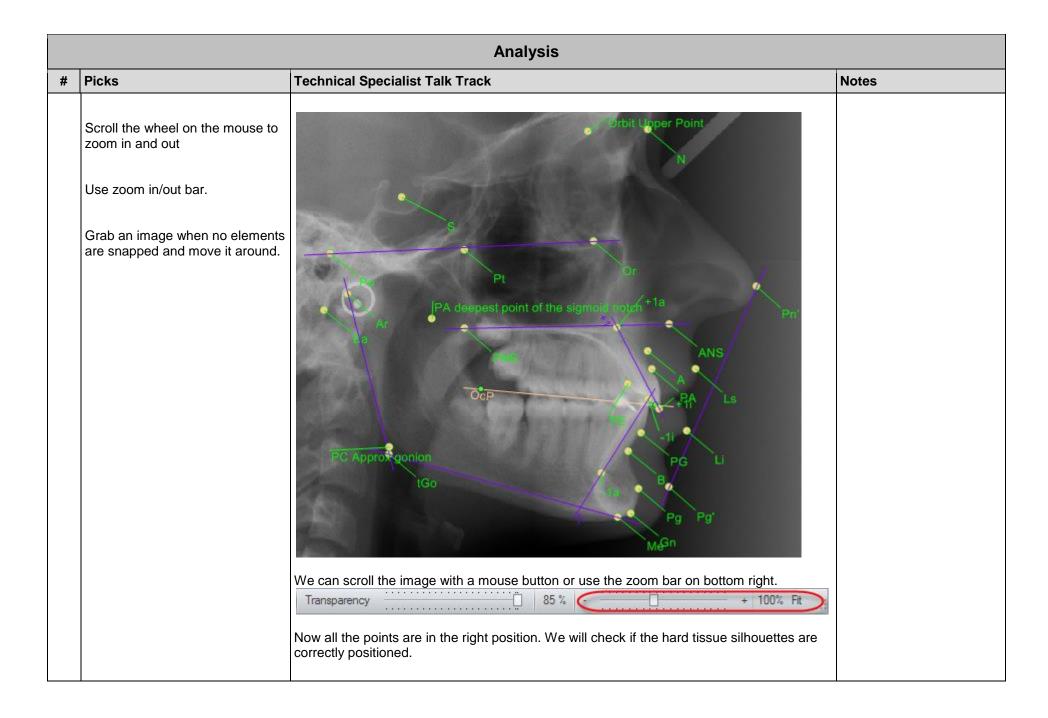
	Entering Documents		
#	Picks	Technical Specialist Talk Track	Notes
	Open your demo files folder and and drag latXray.jpg on the first stage.	We are ready to enter some x-ray images and photography. We can use Add documents option on the stage or even drag and drop option. Whenever only one image is imported software suggests the type of the image. Select Image Type One image is imported software suggests the type of the image.	
	Open demo files folder and change it to\images. Select all images. arctow.JPG	At this stage it can be either x-ray lateral, lateral photography or other. The most frequent is chosen by default. When the conformation is done the image is put on the document holder and the image is recognized as X-ray lateral. Image is a copy and no change to the original has been done. Document navigation bar is selected and ribbon changes accordingly. We will add a bunch of images for Laura now. This are various photography stored on a file folder. When dropping them to the document holder a copy of each is made and stored in the system.	

	Entering Documents		
#	Picks	Technical Specialist Talk Track	Notes
	Select the Undefined Type Image Container. Click rows of Document Family and show what is inside the container. Double click one of the rows to show image in external viewer.	An icon appears on the document holder, which informs user that there are images without properties added to the system. We can always check what is inside by selecting it and choosing one of the rows from the Document Family on the left. Document family I always the control of the cont	



ı	Analysis			
#	Picks	Technical Specialist Talk Track	Notes	
	If group reposition is not active choose Group reposition	The last used analysis type landmarks are put to the canvas. Let us start with tracing the landmarks. We see all the elements that are to be traced in gray color on the canvas. Group reposition is a tool which wraps them. There are two ways of tracing, either by Group reposition or Sequential. Let me show you group reposition.	If no elements appear, it means that the analysis type has not been chosen yet. This happens at the very first analysis after the new	
		By choosing a corner of the wrapper we move all elements together. Let us move it so that point S (Sella turcica) is placed near its location.	installation of the software.	
	Choose upper left corner of the	Press LMB Release LMB	Analysis Use type icon to choose desired analysis	
	wrapper, press left mouse button (LMB) and move around. When in desired position, relese LMB.	PA deepest po	type. If not selected use "demoAudaxCeph" as an analysis type for this demo.	
	Choose upper left corner of the wrapper, press left mouse button (LMB) and move around. When in desired position, relese LMB.	We will also move the right lower corner of the wrapper so that all the points and planes are approximately where they should be.		

#	Picks	Technical Specialist Talk Track	Notes
	Click outside of the wrapper to switch the wrapper off	You may note that all the elements are of the same color.	Light grey color is one of the settings for unmoved elements.
	Focus pointer on a S (Sella Turcica) point body or point tag, press LMB and move it around. Release it in the geometric centre of Sella turcica (as on the image)	When I am close to a point it changes color to cyan. Now I know that my mouse pointer is snapped to the cyan colored element. I can grab a point at its body or its tag (which is in most cases more convenient). I usually grab the tag.	
		I release it. The color has changed. It is a signal to me that this point or element has already been moved. Now I position other points and planes to their position. You may see that an image in Element image dialog changes with each point, helping me recognize the tissue structures. S Sella Turcica N Nasion Po Porion	
	Grab point by point and move them to their position. Ask doctor for help. Occlusion plane is moved by	OrOrbitaleArArticularePtPterygoMaxillary FissureAA-pointBaBasionANSAnterior Nasal SpineBB-pointMeMentonPNSPosterior Nasal SpinePn'PronasalePg'Soft pogonionGnGnathionLsLaberale superiorLiLaberale inferiorPgPogonion-1aApex of lower+1aApex of upperOcPOcclusion plane	
	picking green end points or by selecting a plane body (See Users guide on moving so called	incisor incisor -1i Incision edge of +1i Incison edge of tGo Tangent gonion lower incisor upper incisor	
	Single line element on page 22)	PA Deepest point on deep. sigmoid notch incisor on crown edge outside PC Approx gonion point PG Point on upper incisor on crown edge outside PG Point on upper edge inside PG Point on lower incisor on crown edge outside	
		I am not an expert so I may make a mistake. I would appreciate your help at this point.	
		If I press <f2> a zoom window appears with the mouse being always in the centre of it.</f2>	
		If I press <f3> a window with help pops up. There is an image of selected element on the phantom and a short description of the element.</f3>	

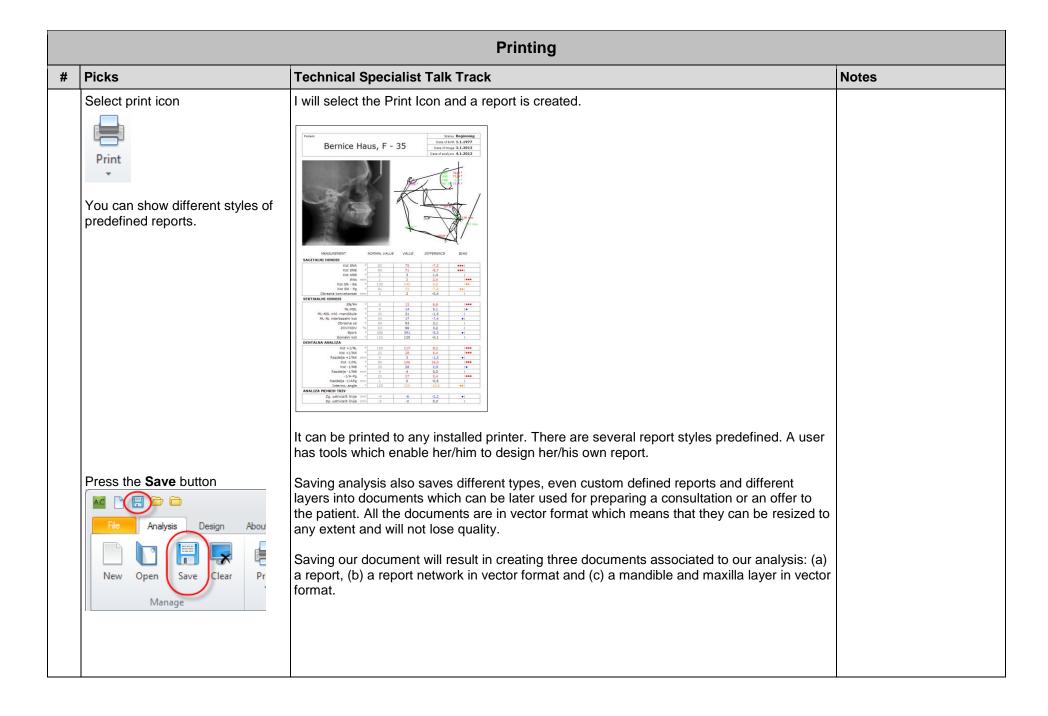


Analysis			
#	Picks	Technical Specialist Talk Track	Notes
#	Check on the Report layer in Layers dialog Pick PC Approx. gonion point and move close to tangent gonion.	Technical Specialist Talk Track I will now show also elements that are to be printed on a report. You may note that hard tissue appeared and some planes as well. To correct mandible shape, I will move the PC Approx. gonion point so that mandible fits mandibular and articulare-tangent gonion plane.	Notes

	Analysis			
#	Picks	Technical Specialist Talk Track	Notes	
	Scroll with a mouse wheel to incisor area.	Now I need to adjust incisor teeth width. I will zoom into the incisors area and select upper incisor. You may note the wrapper with two adjustment squares. I will drag one and the width of the teeth changes.		
	Approach upper incisor silhouette so that it becomes cyan and select it with a LMB. It becomes red and gets a wrapper around it. Drag wrapper and adjust the width.	Point 1 Point 1 Point 2 Point 2 Point 2		
	Grab and move point +1i.	If I move points which define the axis of the incisor (+1i and +1a) the silhouette will follow. I will change the width of the lower incisor as well.		
	Do the same for lower incisor.	PG LI		

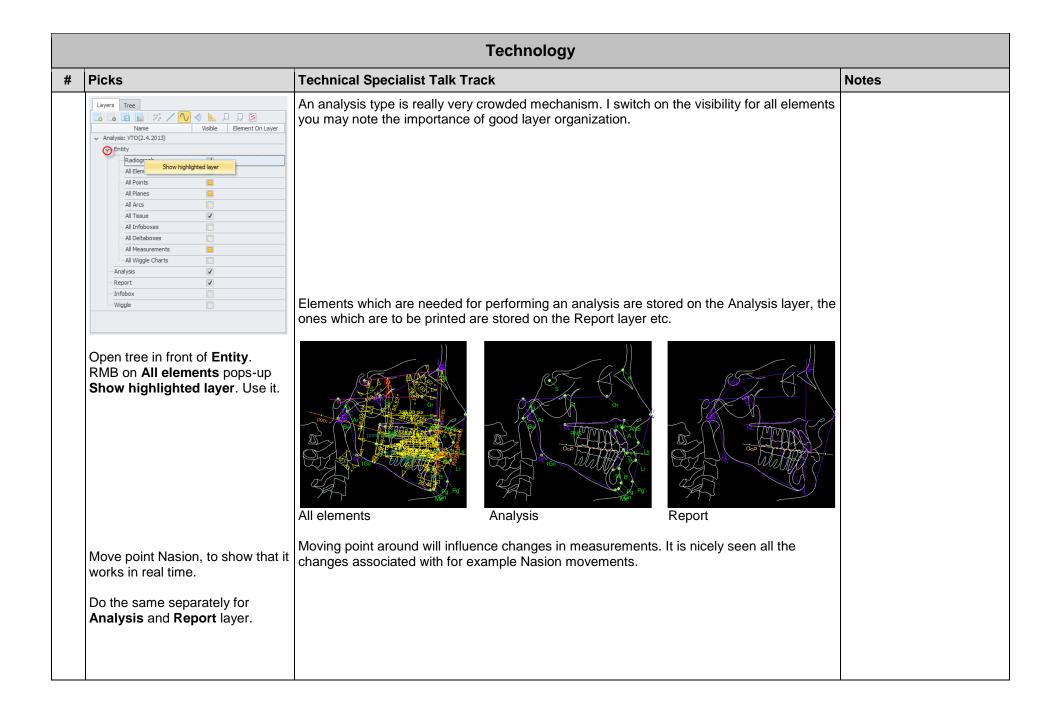
	Analysis		
#	Picks	Technical Specialist Talk Track	Notes
	Choose Silhouette tool from cognitive features. Click the points. Delete them from a curve by <ctrl> click on the point Add them to a curve by <ctrl> click on the curve Move them by picking and moving around.</ctrl></ctrl>	I would just like to finish my silhouettes by defining the face profile. I will do this by choosing Silhouette tool and picking outer face profile. CLICK CLICK CLICK CLICK CLICK CLICK CLICK I can always move points and fine tune the silhouette to the profile.	

	Calibration		
#	Picks	Technical Specialist Talk Track	Notes
	Click the Calibration Icon. Click the first point on the ruler at the Xray image. Click the second point on the ruler at the Xray image. Enter the distance (25mm in our case). Click Done .	If the calibration icon is green the image has already been automatically calibrated, based on the image size and previously stored calibration of the same size image. If it is red I need to do the calibration on the fly. I will select the calibration icon and Calibration dialog pops up. Calibration Calibration	If there is only 20 mm between picked points, please enter 20 into Distance[mm] field.



	Technology		
Notes			
core it uses and creation is in techAxCEPH	H.flv which is mo files. You C player to		
A PA	ANS PA Ls		

	Technology		
# Picks	Technical Specialist Talk Track	Notes	
Please take a look at the movie techAxCEPH.flv.	I would just like to show the technology which works for us and is waiting for you to explore it.	You need a movie techAxCEPH.flv from demo files. Use VLC	
Wave the story about what are your picks. Follow picks in the movie.	We will create a simple "mechanism" consisting from geometry and design intent. So first	player.	
 Create three points Connect two points with a plane Make a new plane parallel to 	here are three points and a plane connecting first two points.	Elements are found on the Design tab of the ribbon.	
the first one through third point and with a free end (move second point)	I will add a plane which will always be parallel to the first one even if I change the orientation of the first one by moving one of parent points.		
4. Make another point and a plane through it with other free end5. Make a crossection point	I will intersect previously created planes with the third one and create a point on a cross section.		
6. Watch mechanism movement7. Add linear and angular dimensions	When I move some point, the mechanism moves accordingly. By adding measurements and we complete our mechanism.		
8. Watch the changes appear in realtime when moving points	You may note that measurements change in real time when the geometry changes. This philosophy is used in AudaxCeph. Whenever a point/landmark or plane is moved all		
	the measurements are updated. By positioning them correctly, all the measurements have the right value.		



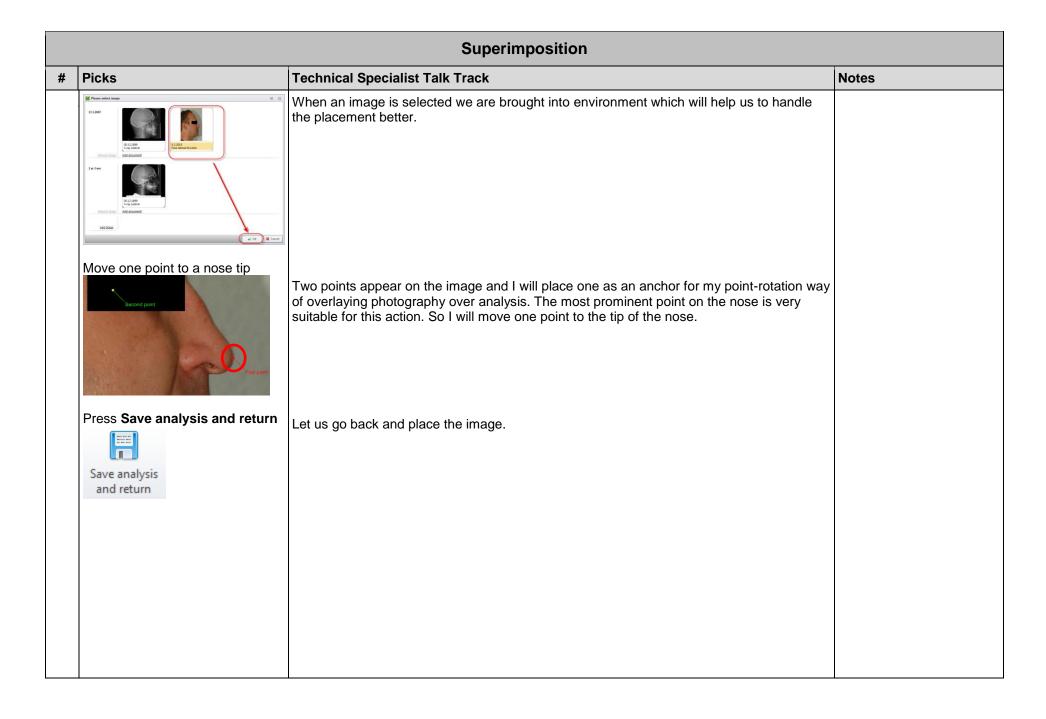
		Document Family	
I	Picks	Technical Specialist Talk Track	Notes
	Click Save	Whenever an analysis is saved, some documents are saved as well. This depends on the predefinition of reports inside the analysis type which is currently in use.	
	Click on Documents in the Navigation bar. Patient Documents Analysis Superimposition Yro Analysis type Orthodontic photographies	We will go now back to Documents. Document Family 24.2013 24.20	
	Click on each row in the Document Family to show a preview of a document	When selected its footer is yellow and its parent document (in this case x-ray lateral image) is in red color. Analysis has an image of tracing itself and other three documents attached. We can have a quick look at them in the preview window.	
	Double click on a document (row) in a document family. Show deliverables	We can also view high quality document by double clicking on it. It appears in main window. It can be printed, sent to clipboard, sent by email, We can see a vector image of mandible and maxilla together with a scale and patient data.	Software switched the Documents ribbon to Viewer ribbon.
	At the end, double click on row Layers: Mandible, Maxilla	TWO CAN SEE A VECTOR IMAGE OF MANGINE AND MAXIMA TOGETHER WITH A SCALE AND PATIENT UATA.	

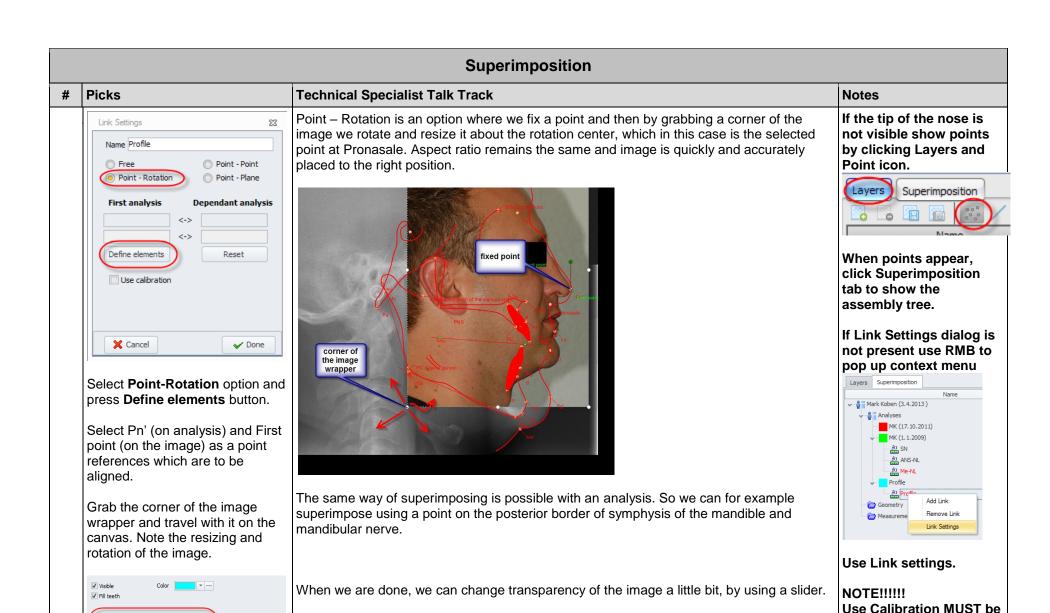
	Document Family		
#	Picks	Technical Specialist Talk Track	Notes
	Zoom in and out with a MMB wheel on the mouse.	We can zoom the document, send it, put to the clipboard and paste to for example Word document.	
	Click on Copy to Clipboard icon. Copy to clipboard		
	Alt-Tab to MS Word. Paste document to a blank page.	Always a vector format is pasted and it can be resized to any size. This is a nice way for adding media material to a presentation for patient, treatment plan or perhaps an offer.	
	Go back to AudaxCeph and switch to Documents ribbon tab.		

#	Picks	Technical Specialist Talk Track	Notes
	Select Patient option on the Navigation bar.	To show superimposition I will create a new patient, add two analysis from different stages of the treatment, add a lateral photography to documents.	
	Create a new patient Mark Koben 1.july 1986 Male Press Save button.	We can drag and drop images and other types of documents as well.	
	Double click on the date and roll it back for two years from today's date.		
	Drag analysis MK_1.acx and drop it in the documents holder.	After creating a new patient I grab analysis which was made a few years ago and drop it into the first stage.	
	Drag MK-latPhoto.jpg and drop it in the documents holder.	We have an image of the patient from that time and I want it on the initial stage as well.	
	Click on Add stage label and press OK button from Stage properties dialog.	To simulate time span we create another document holder. It shows the time span from the initial stage.	
	Drag analysis MK_2.acx and drop it in the documents holder.	The later analysis is to be put on the later stage.	
		27.3.2007 27.3.2007 27.3.2013 Analysis Uni, Ljubijana Add document Pormat Pormat	
		Tisse png PDF Report: DefaultPDF pdf 2 yr 2 mo 2 yr 2 mo 2 yr 3 mo 27 3 3013 Analysis: Uni, judajana	
		Remove Share Add decument Add Share	

	Superimposition		
#	Picks	Technical Specialist Talk Track	Notes
	Drag second analysis on the first and wait for the reports to be created.	When both analyses are in place, we drag the later to the first one. Based on definitions inside the analysis type which was used to create an analysis, all the links and reports are created without any work.	
		27.3.2007 27.3.2013 Analysis: Uni_Ljubljan Remove Stage Add document	
		2 yr 2 mo DRAG & DROP 27.3.2013 Analysis: Uni_Ljubljana Add document	
		Superimposition is created in a second or two together with attached documents.	
	Click through Document family as before with an analysis.	273.3007 273.0007 273.0007 273.0007 273.0007 273.0007 273.0007 273.0007 273.0007 273.0007 273.0007 273.0007 273.0007 273.0007 273.0007 273.0007 273.0007 273.0007 273.0007 273.0007 273.00	
		Since 1970	
		It is put to the last stage document holder and when selected (highlighted in yellow), both parent analyses are highlighted in red. At the same time documents appear in Document Family panel.	

Superimposition			
	Picks	Technical Specialist Talk Track	Notes
	Double click on the superimposition on document holder.	To see all the links I open a superimposition with a double click on it. The environment changes to the one appropriate for overlaying analyses and images on top of each other.	
	Click on Superimposition tab Layers Superimposition Name Visible Element On Layer Superimposition Analysis: 17.10.2011 Entity Analysis	We can always control what we want to see on the superimposition with layers either shown or hidden, we can always switch between different strategies/links of superimposing in the Superimposition tab.	
	Click between different links Layers Superimposition Name *** Mark Koben (3.4.2013) *** Mark Koben (3.4.2013) *** Mark Koben (3.4.2013) *** Mark (17.10.2011) *** Mc (11.2009) *** Mark M.	Analyses are in different color which is seen in the assembly tree. By selecting different links the assembly changes as well. For best navigation the active link is highlighted.	
	Uncheck Visible Visible Color Visible Visible	I would like now to add photography of the patient to the superimposition. To make the assembly more clear I will temporarily hide the second analysis.	
	Press Image button in ribbon. Image	We have already stored lateral image of the patient to our system. We just need to select it and place it over the analysis.	
	Select lateral photo and confirm Selection.		

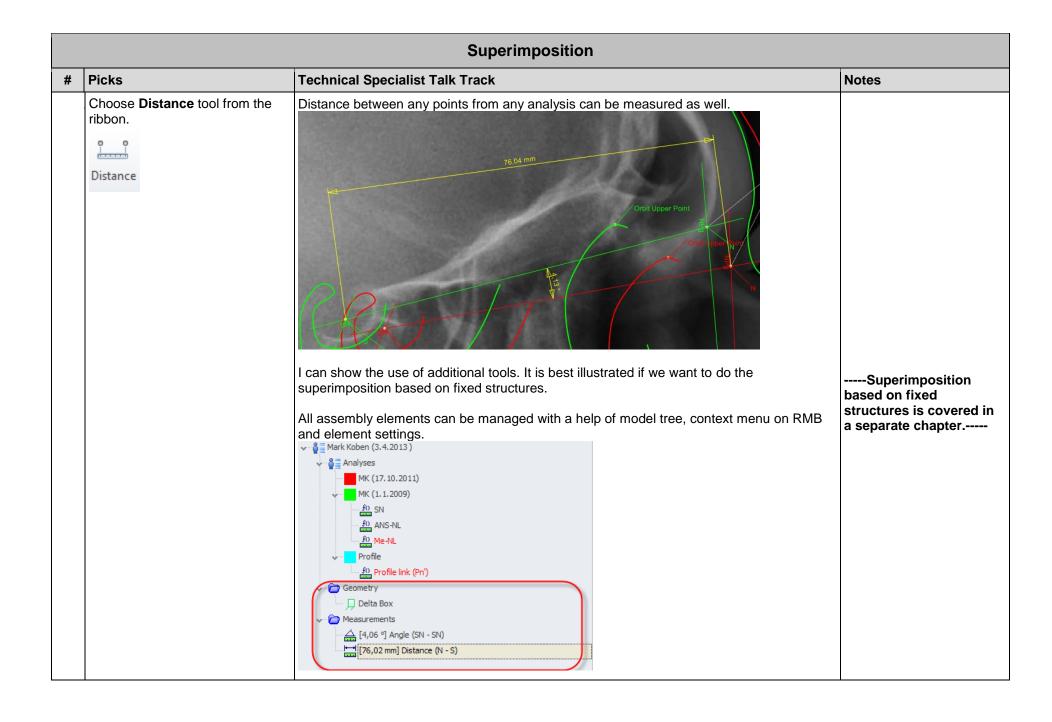




unchecked.

	Superimposition		
#	Picks	Technical Specialist Talk Track	Notes
	Press Save button Save	When saving the assembly, predefined reports will be created and attached to the superimposition.	
	Switch to Documents in the Navigation bar and show the Document Family	We can perform the same actions with them as with analysis, so copy, send by e-mail,	
	Switch to Design tab. Ric Assembly Design O O O O O O O O O O O O O O O O O O O	Assembly not only allows for superimposing and creating nice images, it also offers tools so that we can create assembly geometry, MEASUREMENTS between points, copy elements. These tools are especially useful when we study growth or treatment progress. Tools are available under Design tab in the ribbon and act exactly the same as within the analysis or analysis type creation environment.	
	Select Profile from tree and uncheck Visible Name Na	To show a measurement I will first hide patient's image and made both the analyses visible.	

	Superimposition		
#	Picks	Technical Specialist Talk Track	Notes
	Choose Me-NL link. Switch to Design tab and choose Deltabox . Select Pn'. Use <ctrl>+LBM to move the deltabox to another position.</ctrl>	There are several tools which help doing different measurements: Delta box, Distance and Angle. Delta box measures x, y and distance between the same point in both analyses. If too crowded, we can move them around. Delta box points to both points from the pair.	
	Choose Angle tool from the ribbon. Pick SN planes in both analyses. Angle	Size of the font can be changed if we feel that it does not fit our needs. Info Box Font The Ariel The Ar	Change size of the font using the same settings as for mBox File>Configure



	Analysis type creation		
#	Picks	Technical Specialist Talk Track	Notes
	Select Analysis type tab from the Navigation bar.	Almost every dental school has its own way of doing and representing cephalometric analyses. Some of them are named by their author the others by their origin: Ricketts, Ricketts 12, Steiner, Steiner Bonn, Steiner, Berlin, McNamarra, Downs, Swartz, Bergen, Oslo, Zurich, Jarabak, Sasouni, Bishara, and 400+ others	
		It is virtually impossible to gather all the options in one software in advance. Also doctors have their own wishes and want to enrich or reduce number of measurements, which are available in a given analysis type.	
		Audax Ceph is a tool which has a modeler of analysis types. We define points/landmarks, planes, circles, arcs, add measurements, define standard values and attach them to measurements, create and design reports and exports to spreadsheets.	
		There are three ways way we can start 1. from scratch (where we start from nothing) 2. from previously saved analysis (where we enrich or reduce an existing analysis type) 3. from predefined elements (where measurements are selected from predefined elements bank	
	Select New tool on the Analysis type ribbon.	I will go through the process of creating a simple analysis type including some angles SNA, SNB, ANB and WITS distance measurement.	
	New Open Save Clear Info/ Phant Settings Manage Analysis type	When New type of analysis dialog appears I can select one of existing analyses and copy its content into my new analysis type. New type of analysis Type name of analysis Ameter STCA short report (Ametr, STCA_Lacr) Burstone (Burstone acr) Cabrier_Burder_JShouettes (Cabrier_Budder_JShouette.acr) Cabrier_Budder_JShouettes (Cabrier_Budder_JShouette.acr) European Board of Orthodontists (Gropean_Board_of_Orthodontists.) European Board of Orthodontists (Gropean_Board_of_Orthodontists.) Richter (Gulder_Jacr) Richter (Global_Jarabek_Lacr) Session_(Bossoum_Lacr) Sestions (Global_Jarabek_Lacr) Sestions (Sessoum_Lacr) Tolaro floatina norms (Tolaro floatina. norms_Lacr) Tolaro floatina norms (Tolaro floatina. norms_Lacr)	

	Analysis type creation					
# Pic	cks	Technical Specialist Talk Track	Notes			
and	nd press OK button.	But I will do it from scratch, so I will not select anything. I enter a new analysis type name and continue to phantom picture selection. Phantom picture appears and helps us to organize our tracing points and planes				
	50% 100% 200% 500% Fit 100% 100% 100% Fit	It can be zoomed in or out.				
An it to Phan Sto	elect Phantom tool on the nalysis type ribbon and click on to show phantoms. antom top when lateral phantom opears again.	Phantoms can be also PA or clay model, which means that we can do also these kind of analysis types. lateral phantom				
typ °°° Po	- 0	To measure SNA, SNB and ANB I need S, N, A, and B landmarks B – Point B				

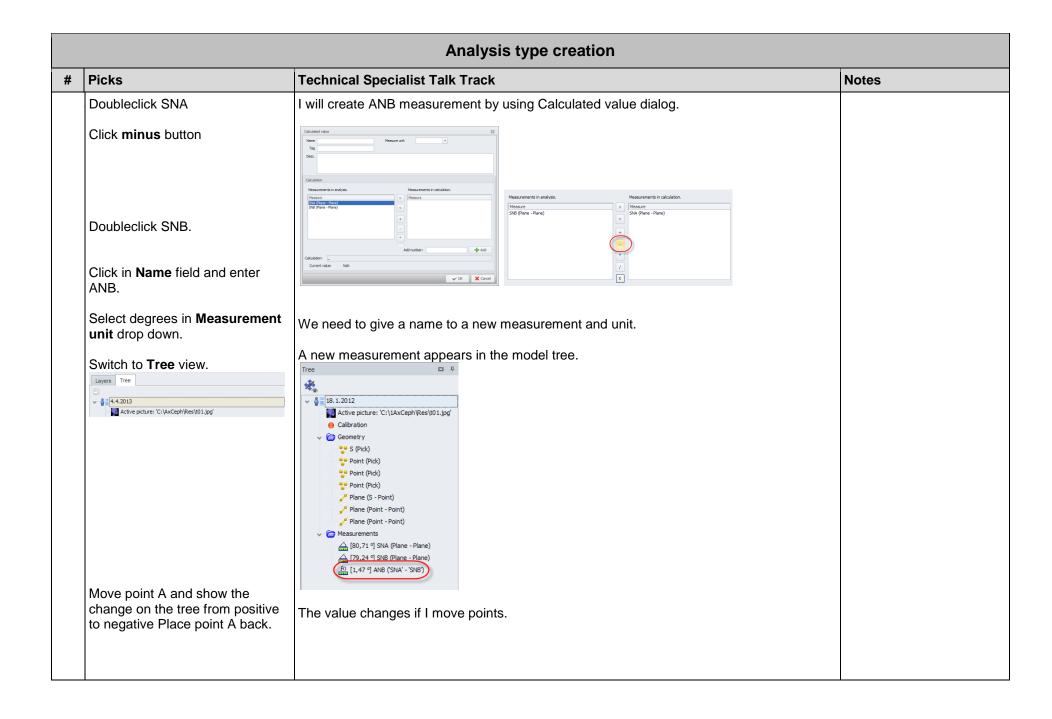
	Analysis type creation				
#	Picks	Technical Specialist Talk Track	Notes		
	Place the point in the place of Sella Turcica (geometric centre)	S – Sella Turcica (Turkish saddle in the geometric center)			
	Press <f4> key to repeat the last point element selection (you do not need to select the Point tool again; <f4> repeats this command). Place the point in the place of N.</f4></f4>	N – Nasion located on the most anterior aspect of the frontonasal suture.			
	Press <f4> key to repeat the command (you do not need to select the Point tool again; <f4> repeats this command). Place the point in the place of A.</f4></f4>	A – Point A is the most posterior point in the concavity between anterior nasal spine and the maxillary alveolar process			

Analysis type creation					
Picks	Technical Specialist Talk Track	Notes			
Press <f4> key to repeat the command (you do not need to select the Point tool again; <f4> repeats this command) Place the point in the place of B.</f4></f4>	B – Point B is the most posterior point in the concavity between the chin and mandibular alveolar process.				
Pick the first point placed in sella	Points as well as other elements have their properties such as name, tag, visibility, color, color for report, description. I will change the name of the first point that was placed on the phantom. You can notice that the name of the point on the canvas has changed. I can also put in the description,				
turcica.	perhaps add an element image.				
Pick Name field in Element settings dialog Name it S.	Element ID Name S Tag S Visible Description Color				
!!!! If you want you may change add an thumbnail image to each element or at least one. Select an element and click plus button in	We can do this for each element, but I do not want to waste your time with it right now.				
Upper panel of Element Settings panel.					

	Analysis type creation				
#	Picks	Technical Specialist Talk Track	Notes		
	Select Plane tool on the Analysis type ribbon. Plane Pick Sella and Nasion Press <f4> button Pick Nasion and A Press <f4> button Pick Nasion and B</f4></f4>	We will connect points with planes, first S and N, then N and A, finally N and B.			
	Grab point A and move it from right to left and back to its position	One of measurements is angle ANB which could be negative or positive, which is of great meaning to an orthodontist. It is positive if point A lies on the right side of plane NB and negative if it lies on the left side of NB.			

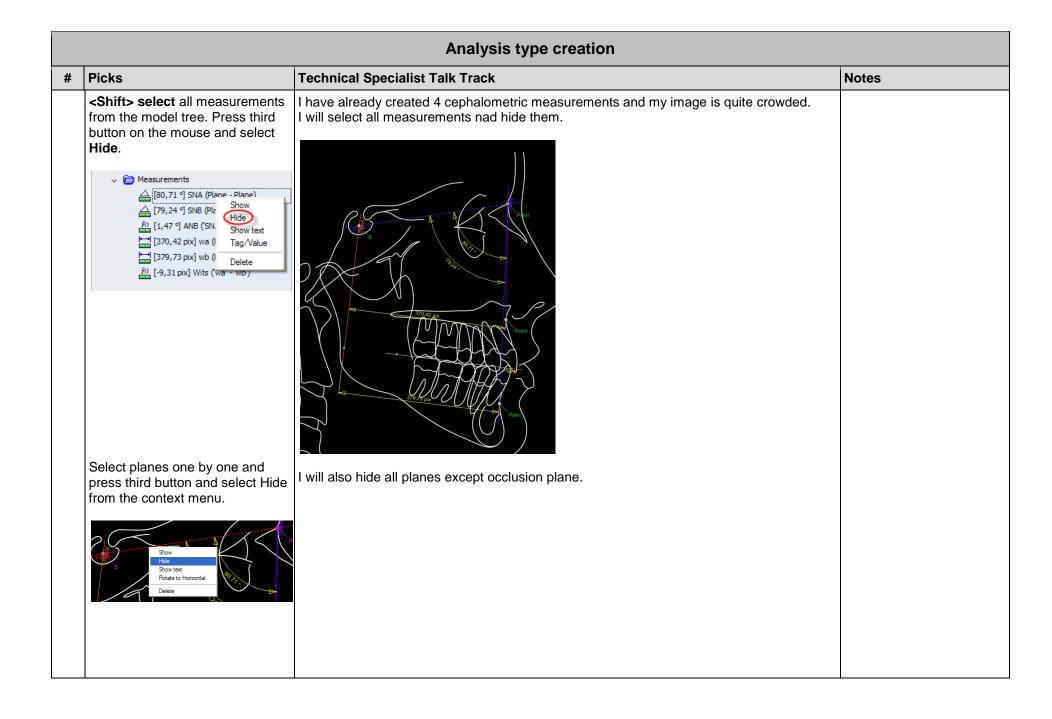
		Analysis type creation	
#	Picks	Technical Specialist Talk Track	Notes
	Select Angle tool on the Analysis type ribbon.	I will first create SNA angle measurement. I can do this by picking either two planes: SN and NA or three points S,N and A.	
	Δ. Angle		
	Pick plane SN and NA.		
	!!!! NOTE if an angle appears on the right side of NA press <ctrl></ctrl> and pick right under the SN	!!!! NOTE if an angle appears on the right side of NA I can always change the position of the angle	
	RS B		
	here is the right position		
	Press <f4> button Pick plane SN and NA.</f4>	I will do the same for SNB.	

		Analysis type creation	
#	Picks	Technical Specialist Talk Track	Notes
#	Pick the first angle and enter the name SNA in Name field in Element Settings dialog Pick the second angle and enter the name SNb in Name field in Element Settings dialog. Select Function tool on the Analysis type ribbon.	Now I will give name to both angles this one is SNA the second is SNB ANB is a value equal to SNA subtracted by SNB.	Notes



#	Picks	Technical Specialist Talk Track	Notes
	Select Plane tool on the Analysis type ribbon. Place a plane as on picture right. Select Perpendicular plane tool on the Analysis type ribbon. Plane Parallel plane Perpendicular plane Horizontal plane Vertical plane Split angle Pick occlusion plane and then pick point S.	I would like to add additional measurement called WITS. It is a distance from A to B projected on the occlusion plane. I will first create the occlusion plane and then a plane which is perpendicular to occlusion plane and goes through point S.	

	Analysis type creation				
#	Picks	Technical Specialist Talk Track	Notes		
	Select Perpendicular plane tool on the Analysis type ribbon.	I will now create two linear dimensions: one from A to perpendicular plane and the other from B to the perpendicular plane. The difference is WITS.			
	Distance	I will use the same steps as before to create calculated value dimension.			
	Pick point A and perpendicular plane				
	Give a name wa to this dimension.				
	Pick point B and perpendicular plane				
	Give a name wb to this dimension.				
	Select Function tool on the Analysis type ribbon.				
	√a Function				
	Subtract wb from wa (wa-wb)				
	Click in Name field and enter Wits .				
	Select mm in Measurement unit drop down.				

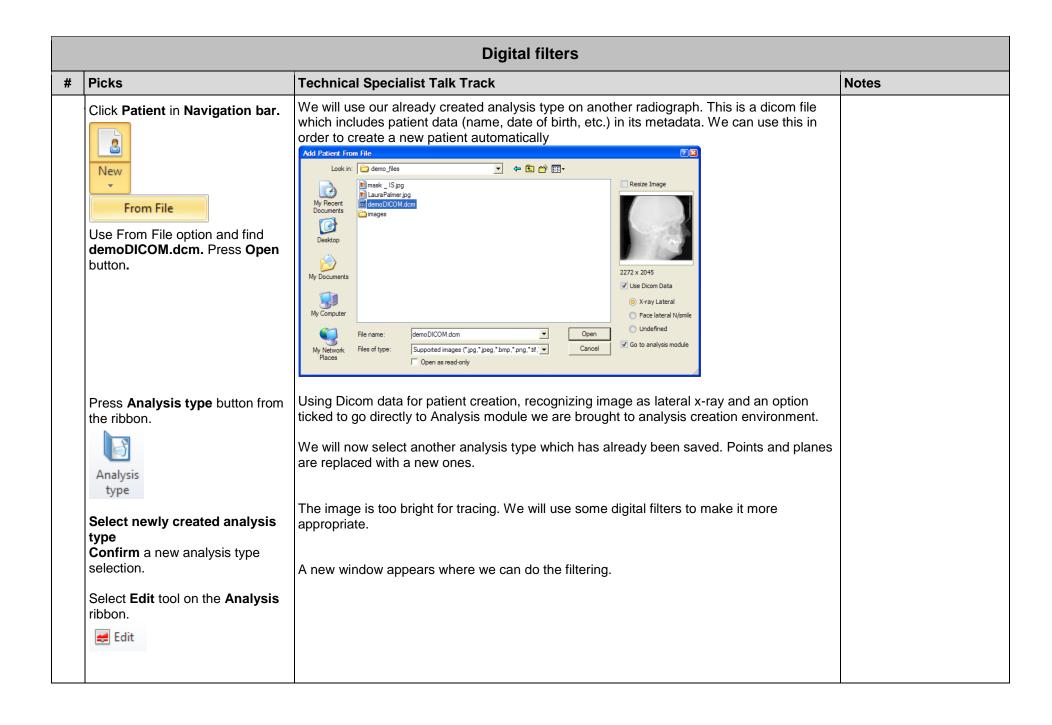


	Analysis type creation				
#	Picks	Technical Specialist Talk Track	Notes		
	Highlight the Analysis layer in Layers dialog.	What is left are four points an an occlusion plane. This is exactly what I need to do my tracing and obtain SNA, SNB, ANB and Wits.			
	Layers Tree Name. Visible Element On Layer Analysis Save snapshot to a layer Entity Analysis Report	I will put them to the Analysis layer.			
	Press Save snapshot to a layer button.				
	Remove tick from checkbox				
	Add tick to checkbox.	If I switch the layer off all elements disappear and I bring them back by puting a tick to checkbox of Analysis layer.			
	Select Link tool on the Analysis type ribbon. Page Link Edit	At this point measurements are not aware of their standard values. They may differ from one race to another, be dependent on sex and age, dentition, Standard values can be taken from scientific articles or books for local population.			

Analysis type creation				
Picks	Technical Specialist Talk Track	Notes		
Click button. State that the beginner of the state of th	I want to enter standard values for my measurements. They can be either entered manually or imported from other analyses, excel file.	Show Excel import/export only if Excel is installed on your system.		
Select Import button from Standard values dialog and select Demo.xls. Press Open button from file select dialog Pres OK in Standard values	I will import some standard values from an excel file.			
Butter to the Way Indeed Town Standard values dialog. Standard volume Was an	We will now link measurements from both sides (Measurements and Standard Values). For example we first pick SNA from Measurements on left and sna from Standard Values on right.			

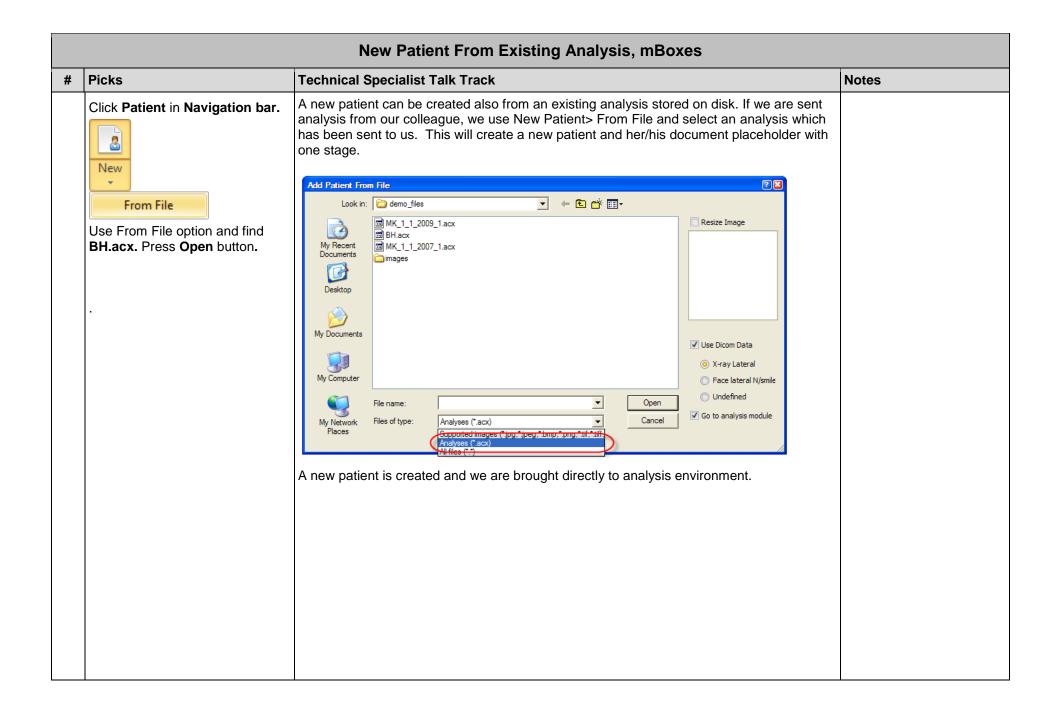
	Analysis type creation				
#	Picks	Technical Specialist Talk Track	Notes		
	Highlight SNA in left. Highlight sna or right.	I will link all four measurements.			
	Press Link button.				
	Do the same for SNB, ANB and Wits.				
	Press OK in Standard values – linking (Analysis) dialog.				
	Select Perpare report tool on the Analysis type ribbon.	The only thing that we need to do is to create a report.			
	Page Link Edit				
	Press Add group button.	We will put measurements into two groups.			
	Forest distincturation Measurements				

Analysis type creation						
Picks	Technical Specialist	Talk Track				
Press + button and enter Grp 1.	One is Grp1 the secon	d is Grp 2.				
Press + button and enter Grp 2.						
Press OK button .						
Double-click on Grp 1						
·	I will put groups in repo	ort by doubleclicking on e	ach of ther	n.		
Double-click on Grp 2 Groups						
Group name Grp 2						
Grp 1						
a ala at finat navy after One 4	1					
select first row after Grp 1	I will place SNA, SNB a	and ANB in group Grp 1 /	And I will p	lace Wits	s in Grp 2.	
✓ Occup 10-Opp 1 ✓ Occup 11-Opp 2 ✓ Occup 11-Opp 2		ļ.,				I
v Group 1 Other	Name	Measurement u	/alue	Normal	Difference	Deviation
Double-click SNA. Double-click SNB.	✓ Group: 0 - Grp 1 SNA	Fo1	80,71			
Double-click SNB.	SNB	[°]	79,24			
Double-click AIND.	ANB	[0]	1,47			
Select first row after Grp 2.	✓ Group: 1-Grp 2	F-1	1,77			
Select first row after Grp 2.		Field	0.21			
Double-click ANB.	Wits ✓ Group : Other	[pix]	-9,31			
Bouble click AND.	Group : Other					
Press Preview button.						
Close preview.						
Dance OK harther in Brief and						
Press OK button in Printout						
customization dialog	I can look at the previe	w to verify the report				
	Today rook at the provid	in to roiny the report				
Select Save tool on the Analysis	I will now save my new	ly created analysis type.	(REMEME	ER THE	NAME for	later use)
type ribbon.						
		also define (a) the docu				
		port or tracing network				
Save	automatic dragg & dr	op superimposition and	1 (C) MS E	хсеі ехр	ort templat	e.
Save						



	Digital filters				
#	Picks	Technical Specialist Talk Track	Notes		
	Press Grey level Filters Negative Median (F2) Softening (F3) Sharpening (F4) Emboss (F5) Grey level (F6) Soft tissue (F7) In grey level dialog set RED bar to about the position in the image. Press OK button.	I will first make the radiograph darker. Making whole image darker, hides the profile of the face, which is needed in cephalometric analysis.			
	Select ROI from Show section. Show ROI Pseudo colors	The image is 12 bit grey level radiograph, which means that more than 4000 grey levels are available. I just need to emphasize the right ones.			
	place it as on image	I will select the region of interest and apply appropriate filter. It is so-called Soft tissue filter.			
	Select Soft tissue filter.				
	(!!!!!! repat again if necessary)				
	Press Save lossless button.				

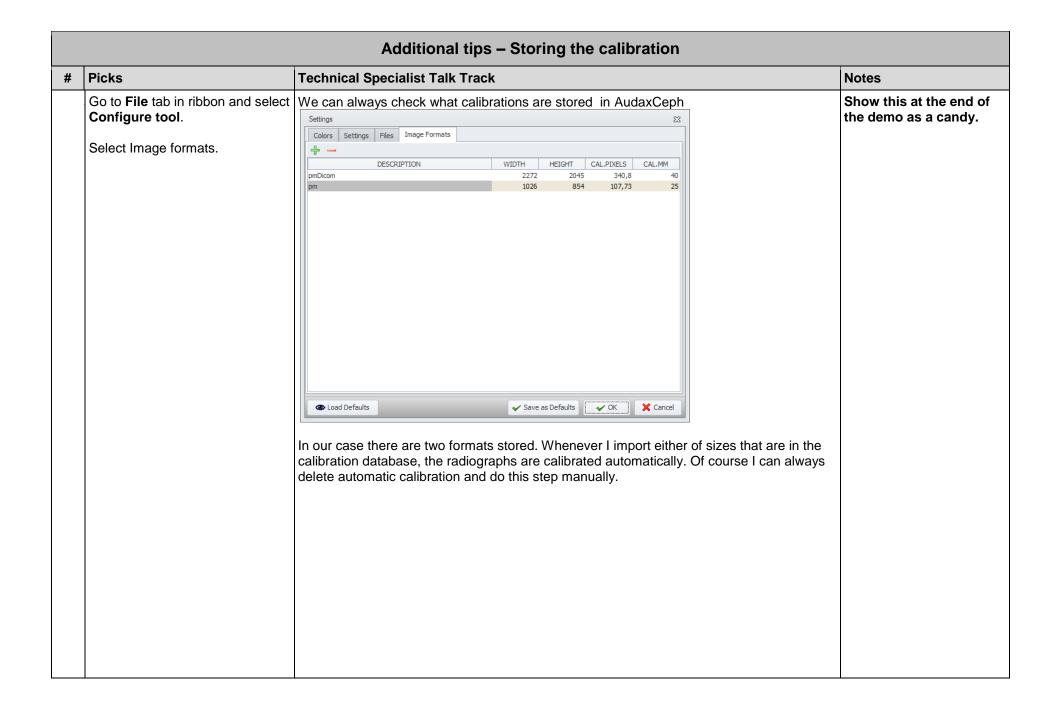
#	Picks	Technical Specialist Talk Track	Notes
	Place points and occlusion plane.	Now I am back, I just need to place points on the right position, define occlusion plane and calibrate the analysis.	
	Calibrate the analysis.	We can check the report and you can see both groups and measurements which are put into them.	
	Select Print tool from Analysis tab on the ribbon		
	Print		
	*		

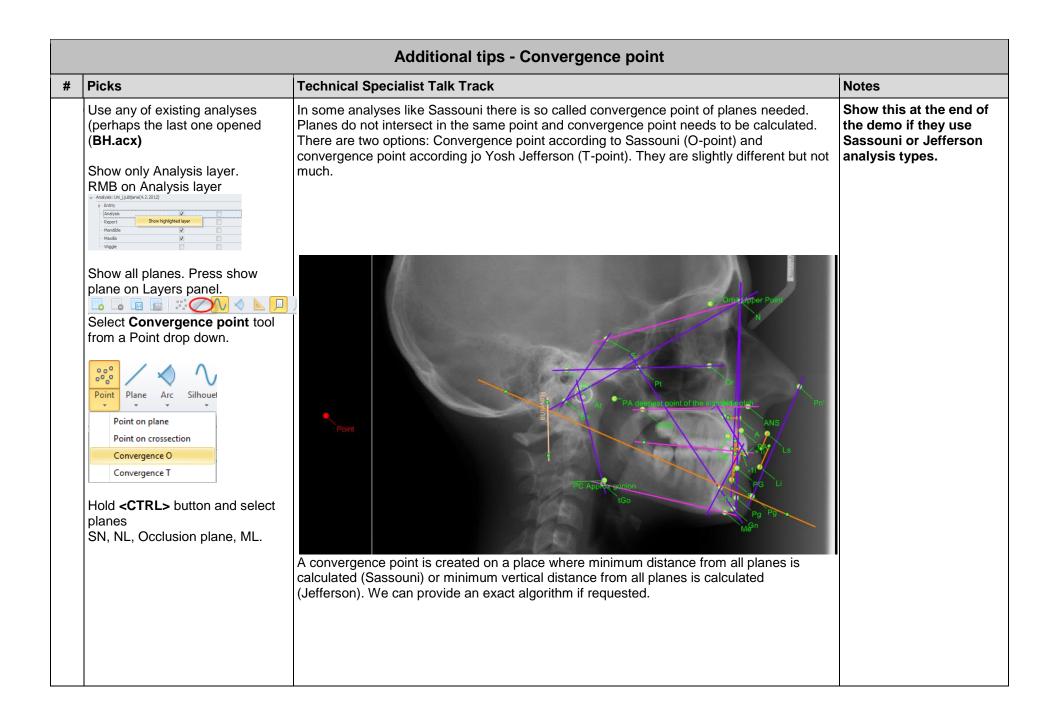


	New Patient From Existing Analysis, mBoxes				
#	Picks	Technical Specialist Talk Track	Notes		
	Select mBox tool from Design tab on the ribbon.	If I want to show some measurement directly on the screen lan always add an mBox with measurements of interest. Measurements are colored according to the deviation from mean standard value. Colors can be set according to users wishes, both for on screen mBoxes or printed ones. In mBoxes we can change font properties, such as size, font type.			
	Pick near N (Nasion) point and doubleclick on the mBox. Doubleclickt SNA, SNB and ANB from mBox Settings dialogbox. Change font size to 14. Press OK button. Double-click on mBox again. Add tick at Show measurement tag Show measurement tag. Press OK button.	Info Box Service Measure in analysis			
	Right click on the MBox. Select Align mBox from the context menu. Select N (Nasion) point and press OK in Linking mBox dialog. Pick mBox. Move it to the desired location. Grab point N and move it around. MBox moves with a point.	We can also add measurements tag and display measurement name. mBox can be attached to the point, so that measurements are always close to where they should be.			
		You can note how colors of measurements change, when the point is moved.			
		Additional tips – Wiggle chart			
#	Picks	Technical Specialist Talk Track	Notes		

	New Patient From Existing Analysis, mBoxes			
#	Picks	Technical Specialist Talk Track	Notes	
	Select Wiggle chart tool from Design tab on the ribbon. Wiggle	Wiggle chart is additional graphical representation of all measurements.	Show this at the end of the demo as a candy.	
	Pick somewhere on the left side of the canvas.	Wits 4 130 SN - Ba 5 SN - Pg 7 2 2 Oor, konv. 7 5 SN/FH 8 3 9 9 SN/FH		
	(!!!! NOTE If measurements do not appear, you probably did not select Patient type in Patient/Type dialog box.)	1		
	Grab point N and move it. Chart changes in real time.	PC Approx Sonion		
	Right click on wiggle chart and select Export Wiggle chart . Open Power point and drag file to the slide.	Measurements are displayed in real time and they change with movement of a certain point.		
		They can be exported in vector format and put into PowerPoint, Word etc. Export color can be defined as well. This is very convenient presentation feature.		
	Select mBox and Infobox Wiggle chart option To Box The Hote Select Age the Sele	Wiggle charts can be added to mBox as well. SNA 75.55 SNB 73.55 ANB 2,11		

	Additional tips – Storing the calibration			
#	Picks	Technical Specialist Talk Track	Notes	
	In File → Configure check the Automatic analysis calibration (Automatic analysis calibration)	Every digital X-RAY machine type has different magnification and outputs different size of radiograph (in pixels). We can identify the machine based on pixel image size. And the same machine always has the same magnification.	Show this at the end of the demo as a candy.	
	Select Calibration tool from Analysis tab on the ribbon.	If we perform calibration of the image once, it will be the same forever. System checks the size of the imported radiograph and calibrates the analysis according to stored calibration parameters.		
	Calibration	Calibration x		
	Pick two points on ruler and enter distance between them.	Original image size: 988 x 1098 Current image size: 900 x 1000 Preset found for image size:		
	Press OK button. Icon for Calibration turns green.	Pick points on the Xray ruler First point		
	Calibration	Pixel size (mm) Manual entry (keyboard) Distance (mm)		
	Click it again and press Save button.	Number of pixels		
	Enter Name to the Add new calibration preset.	✓ OK X Cancel		
	Press OK button.	This will save calibration settings for machine with 988x1098 pixels.		





Additional tips - Parameters		
Picks	Technical Specialist Talk Track	Notes
Select Parameter tool from Design tab	In some cases we would like to drive certain dimensions with a parameter which depends on sex, age or both.	Show this at the end of the demo as a candy.
√a Function Tabelaric	We can define a parameter in form of a table. Let us just select sex as a independent parameter and enter 20 for male and 40 for female.	
	Name param1 Measure unit mm ▼ Tag param1 Desc.	
Sex is already selected.		
Enter 20 for male (M).	✓ Sex □ Age	
Enter 40 for female (F).	Sex Value /	
Enter param1 as a name.		
Press OK.		
	✓ OK X Cancel	
	I would like to drive a dimension with the parameter which depends on patient sex. I will create two arcs and drive the difference in radius between them.	
Select Arc tool from the ribbon.		
	FIRST POINT START POINT	
Arc *		
Pick a center point somewhere on canvas, Pick first point of the arc Pick second point of the arc.		

	Additional tips - Parameters		
#	Picks	Technical Specialist Talk Track	Notes
#	Picks Select Concentric arc tool from Arc tool drop down menu. Pick already created arc. Double-click on a new arc. Select param1 from the bottom of the list. Press OK button. Switch Gender from M to F or back (in Patient/Type panel) Gender Male Female	Technical Specialist Talk Track I can specify the difference in radius by double-clicking on the second arc. A dialog offers several options one being a parameter. When selecting the param1 from the list it will define the radius difference. Marc Settings Radius portion Distance Distance Distance Measure Razdaja (-1i -pnm) Razdaja (-1i -pnm - NB) Razdaja -1/APg (Razdaja' - 'Razdaja') Razdaja -1/APg (Razdaja' - Razdaja') Razdaja -1/APg (Razdaja' - Razdaja' - Razdaja') Razdaja -1/APg (Razdaja' - Razdaja' - Raz	Notes
	in order to show the difference.		

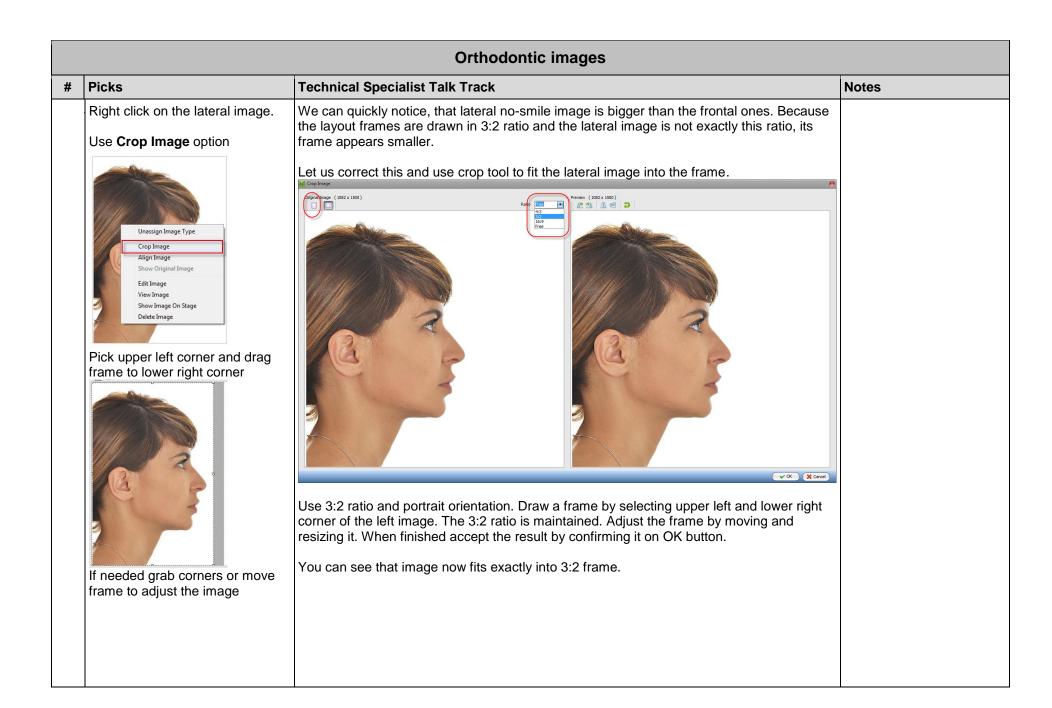
	Additional tips - Excel export			
#	Picks	Technical Specialist Talk Track	Notes	
	Select Excel tool from Arc tool drop down menu. Excel	We can create reports directly from AudaxCeph software, but it is also possible to export results and images to Excel spread sheet. A template can be incorporated into analysis type and used so that the report can be really fancy. I am just going to show you an example of results export of the analysis on the screen. The template in our case was embedded into analysis type, which was used to create the analysis. There are three default sheets: .) P for patient .) I for Images .) M for measurements Out of these sheets the fourth sheet is created. Virtually any kind of report can be created even the ones with floating norms.	You may use Tollaro analysis and show the floating norms export.	

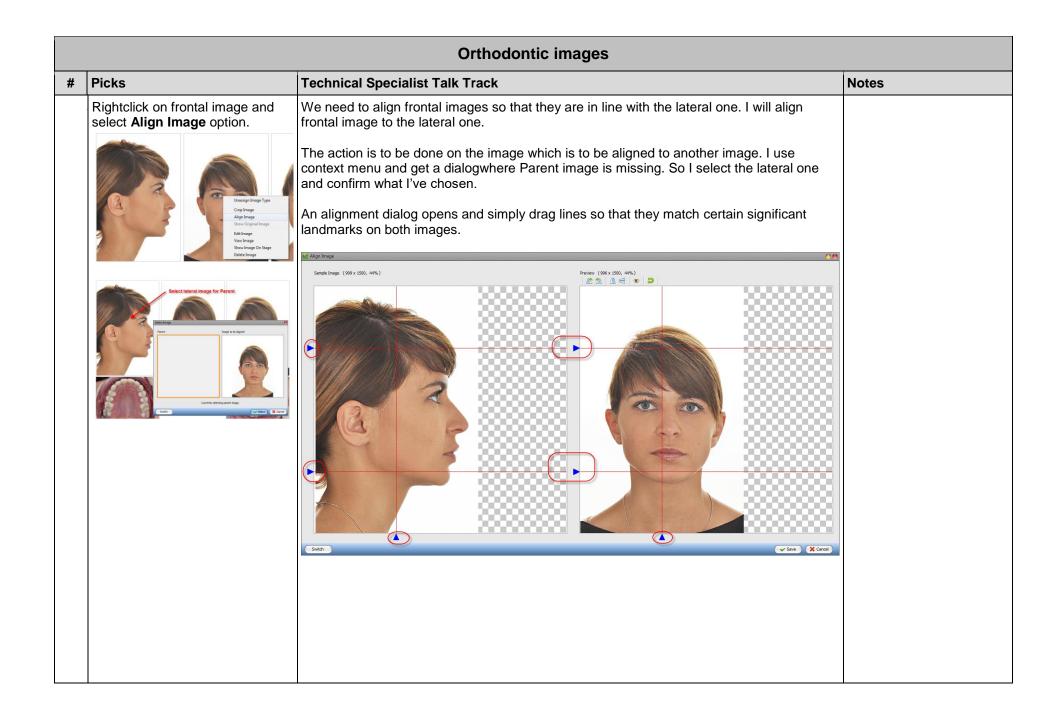
Additional tips - Analysis type creation from predefined elements			
Picks	Technical Specialist Talk Track	Notes	
Select Analysis type on Navigation bar Select New tool on the Analysis type ribbon.	It is a lot of work if we start creating an analysis type from scratch. We have to name elements, add properties, description, and thumbnail. It is nice to have a functionality where we would only choose measurements and add them to the analysis type. There is a database of measurements together with points and planes.	Show this at the end of the demo as a candy.	
Enter any name for the analysis type for example a name connected to the town of demo.	We will add elements from the database, which already have their parent geometry and properties. When we chose angle ANB then also SNA and SNB are chosen and all the points and planes as well.		
Select Element library tool on the Design ribbon. Element library Double-click on ANB so that SNA, SNB and ANB are put into Selected area. Click on Points and Planes to show that parents were transferred as well.	The second of th		
Double-click on Wits to add wits measurement.	This is much faster and easier way for starting a new analysis type than doing it from scratch.		
Click Add elements button.			

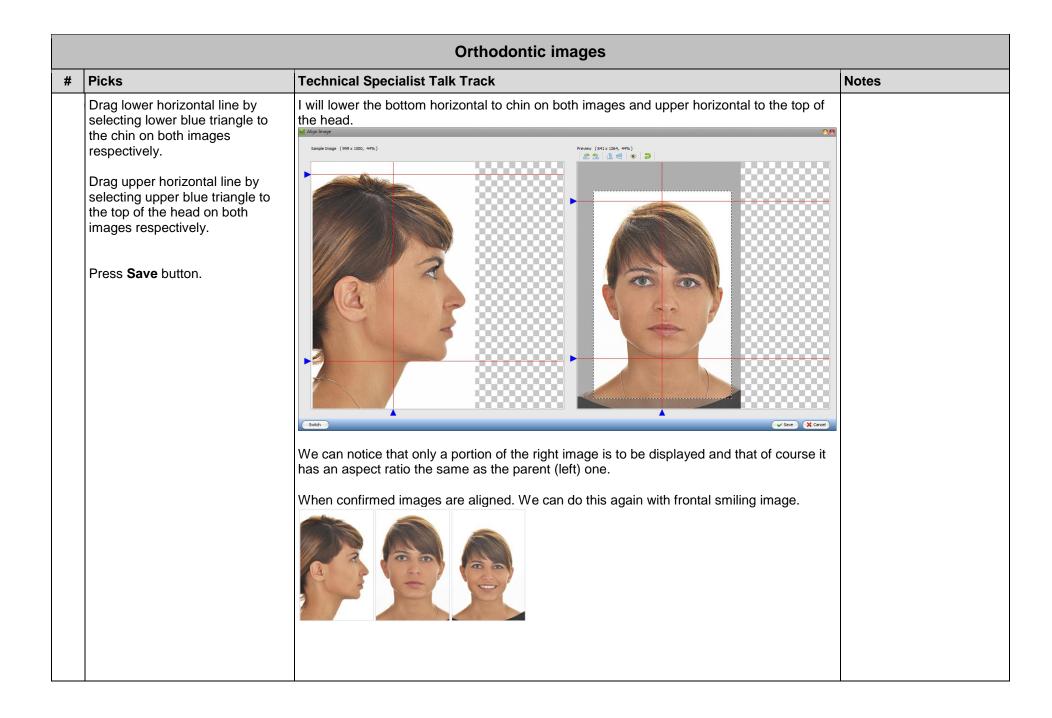
	Orthodontic images			
#	Picks	Technical Specialist Talk Track	Notes	
	Choose Patient from the Navigation bar.	At the beginning of the demo we entered a patient Laura and added some orthodontic images to the document holder of her initial stage.		
	Select Laura Palmer who was entered at the beginning of this demo	AudaxCeph has an intelligent way of using image properties to arrange images in layouts, compare images from different stages of the treatment and even create customized images layouts.		
	Double click on Undefined Type Image container.	2.4.2013 29.6.2012 X-ray lateral Add document Add Stage When we enter the orthodontic images environment we can see that some of the layouts are already defined.		
		are already defined. Aduction CEPH - Lowered to Actual do at Advance CEPH -		

	Orthodontic images			
#	Picks	Technical Specialist Talk Track	Notes	
#	Choose ABO layout For better navigation we can choose between two containers with different filters: all images and undefined type images. Drag & drop images from the left side image container to the paper canvas, so that you get the canvas as on the picture.		Notes	
	Switch between layouts. Finish at ABO.	When an image is put in place its type is assigned to it and image in the container gets a tick, so that we know exactly which images have already been used. If I switch to any of other two layouts, images are put in place too. We can do different things now.		

	Orthodontic images		
#	Picks	Technical Specialist Talk Track	Notes
	Press Copy to Clipboard button Copy to Clipboard Alt-TAB to MS WORD and paste layout to a new document.	It may be useful to paste the images layout to another document. I may create a high resolution copy to the clipboard and paste it to a presentation for a colleague.	
	Press Save to Stage button.	I can put this sheet on the document holder so that it is a part of the collection of documents.	
	Save to	#1, Laura Palmer (demo), F, 24 years, 1. julij 1989	
	Switch to Documents in the Navigation bar.	4.7.2013 30.12.1899 Lateral X-Ray Remove Stage Add document	
	Double click the layout ABO.	Because all the images are assigned a type, the undefined images container is no longer present on the stage. Opening a layout from the document container brings us back to layout environment again.	

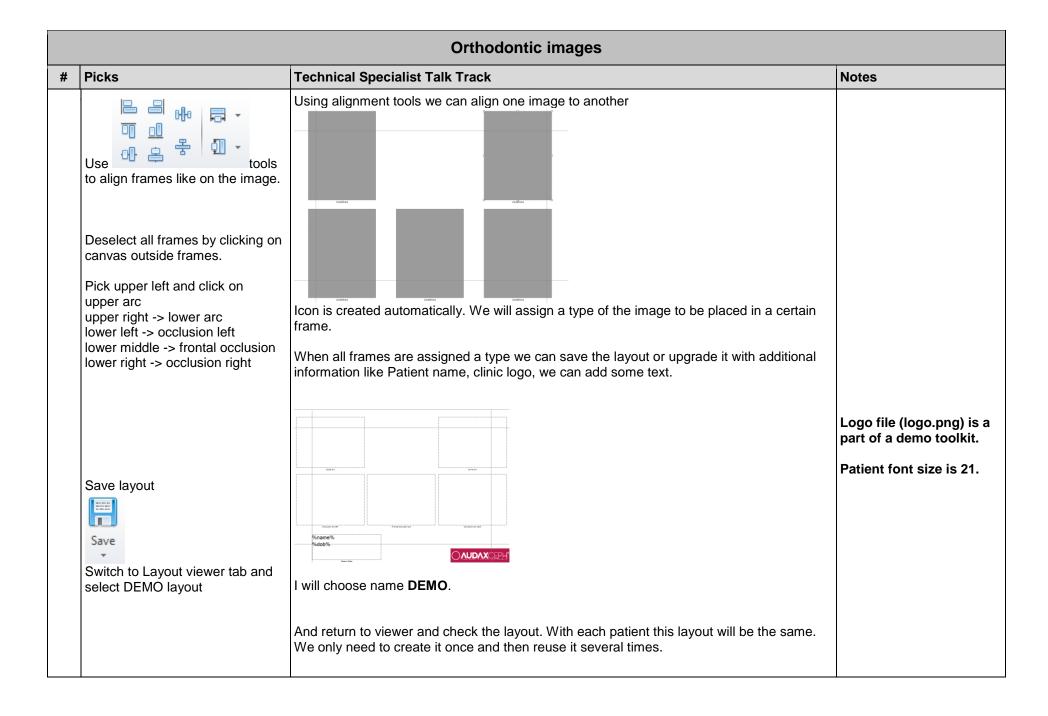






	Orthodontic images		
#	Picks	Technical Specialist Talk Track	Notes
#	Switch to Template Editor Tab. Show page setup options. A Font Size B Page Size Page	Layouts can be predefined (industry set), global (the same for all patients), custom (made only for one patient) and comparative (made for one patient and comparing the same type of images from different stages of treatment). Just for the illustration we will quickly create a layout for intraoral arc images. We can specify several properties like size, orientation font for annotations, Template icon is in green color and has no frames. When adding a frame it automatically appears on the icon as well. We can use Copy Paste functionality to create additional four frames	Notes

	Orthodontic images		
#	Picks	Technical Specialist Talk Track	Notes
#		To specify the exact frame ratio an option Ratio from context menu can be used. This sets exact ratio. When resizing the frame with a ratio set, it will keep the aspect. The aspect ratio of a logo is always automatically maintained.	Notes



	Orthodontic images			
#	Picks	Technical Specialist Talk Track	Notes	
		Upper arc Lower arc		
		Occlusion arc left Frontal occlusion arc Occlusion arc right		
	Press Save to Stage button.	Laura Palmer 1.8.1986 ONUDAXCEPH®		
	Save to Stage	I want this image on document holder.		
	Switch to Documents in the Navigation bar to show documents.	In this way I can automate the report generation. I am able to create quick presentations to the patient or colleagues and at the same time all the patient data is sorted and organized.		

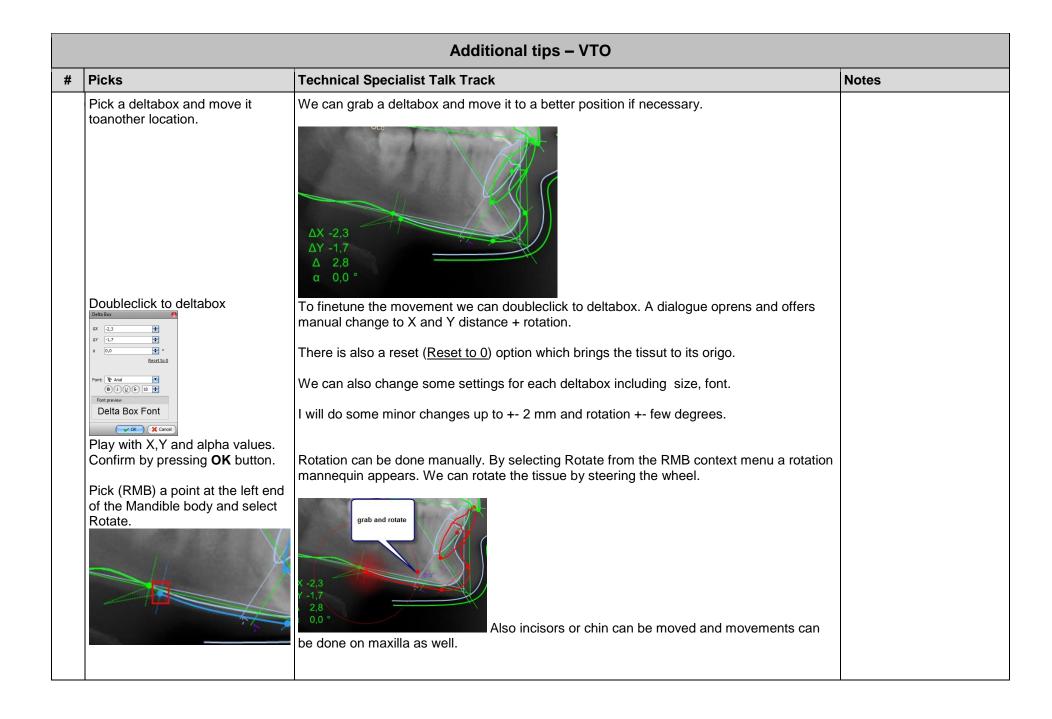
	Additional tips – Structural superimposition			
#	Picks	Technical Specialist Talk Track	Notes	
		To create a structural superimposition, some things should be done in advance: • stable tissue structures must be traced before for example • Walker point and the cranial base • • both analyses must be calibrated in advance Walker's point Then we will add some silhouettes to trace hard tissue contours.	1) The inner contour of the anterior wall of sella turcica. 2) The mean intersection point of the lower contours of the anterior clinoid processes and the contour of the anterior wall of sella, Walkers's point. 3) The anterior contours of the middle cranial fossae. 4) The contour of the cribriform plate 5) Details in the trabecular system in the anterior cranial base. 6) The contours of the bilateral fronto-ethmoidal crests. 7) The cerebral surfaces of the orbital roofs	

	Additional tips – Structural superimposition			
#	Picks	Technical Specialist Talk Track	Notes	
		Let us create a new patient named Mark Kedoe (or whatever) and create two stages: the firs of 7.3.2010 and the second of TODAY. I have two analyses already prepared and will drop them into the stage. They are in demo toolkit (MK_1_1_2007_1.acx and MK_1_1_2009_1.acx)	Both analyses have the Walker point and cerebral surfaces of the orbital roofs already traced.	
	RMB click on the analysis on the first stage and select Superimposition .	We open the analysis on the first stage in Superimposition mode. 7.3.2010 Edit Duplicate Export Delete eMail Analysis: Uni_Ljubljana Add document NTO		
	Select Add tool from Analysis tool in the Ribbon. Analysis Add Remove Edit Select second analysis and push OK button. Select Superimposition tab. Click on S-N in link tree. Click on ANS-NL @ ANS in link tree.	Now we will add the second superimposition. Some links are created automatically due to predefined superimposition definition, which is really nice. You can see them in the assembly tree: for example Sella Nasion or ANS NL @ ANS.		

ı	Additional tips – Structural superimposition			
#	Picks	Technical Specialist Talk Track	Notes	
	Select Add from Link tool in the Ribbon. Link Add Remove Enter name Structural Sup. Select Point-Rotation option. Place a tick in front of Use calibration. If Walker points are not visible push Point toggle view button (twice), so that all the points are visible. Layers Superimposition Show-Hide Points Show-Hide Points	We will now add additional link between the two analyses. Several options appear which enable user to do any kind of superimposition, either point to point, point-plane, point-rotation. I choose a name for example Structural Sup. We are actually going to align both Walker points and align the traced structures by rotating the second analysis about Walker point. To prevent analysis from resizing we need to Use calibration to match probably different sizes of images in both analyses. After the ticked Use Calibration option, the rotation will be the only possible movement We will now select elements (Walker points on each analysis respectively).		
	Push Define elements button. Select walker points Press Assemble button in the dialogue.	We confirm the alignment and put one analysis on the top of the other.		

	Additional tips – Structural superimposition		
#	Picks	Technical Specialist Talk Track	Notes
	Grab the corner of the second analysis and rotate it about aligned points. Press Done in the dialogue box.	What we need to do is just to grab a corner of the second analysis and visually align cerebral surfaces of the orbital roofs. After we are done, we can check all the links just by clicking on each one.	

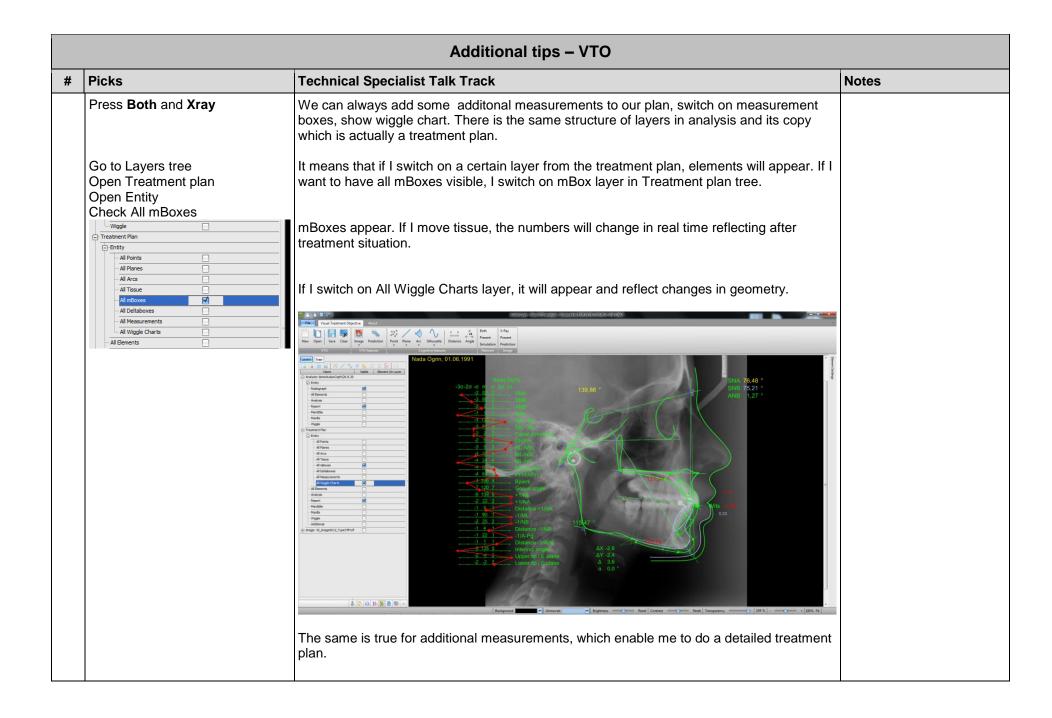
stag	MB click on the analysis on the age and select VTO .	Technical Specialist Talk Track To create an orthodontic and/or surgical si,ulation and treatment prediction we start from an analysis. We will use Laura Palmer (or other name of the patient we started with), because her analysis has already been created. We are put into VTO environment. The canvas looks pretty much the same as in the analysis environment. By default we see some tissue and planes. If me move a mouse	Notes
stag	age and select VTO .	an analysis. We will use Laura Palmer (or other name of the patient we started with), because her analysis has already been created. We are put into VTO environment. The canvas looks pretty much the same as in the analysis environment. By default we see some tissue and planes. If me move a mouse	
	ove mouse over mandible, chin,	analysis environment. By default we see some tissue and planes. If me move a mouse	
		across the tissue it highlights in cyan, but not just element by element. Entire group consisting from several elements highlights.	
		Occ -	
	ouse click and move around a	If we move the tissue, two analyses are visible: the initial one which is in gray and can not be moved and the green which is an exact copy of the initial one before any movement is done.	
		Whe we move the tissue a deltabox automatically appears. It measures the relative distance of moved tissue versus the static tissue.	



	Additional tips – VTO		
#	Picks	Technical Specialist Talk Track	Notes
	Zoom to lip area. Notice the gap between the two lips. Click on the lower lip and points defining its shape appear. Move low Stomion on top of upper Stomion	We can notice that there has been a change in soft tissue profile as well. Depending on the surgery technique, tissue rigidity, scale of the surgery and other, it is hard to predict exact changes. But the system will offer the prediction according to the treatment. It is great to be able to manipulate the expected change interactively. We can freely move other points as well as intermediate points (the ones with no name tag), delete or add them until we feel that our result is on the screen.	
		If a profile image of the patient is available it can be assembled any time, but there is no need to do it if you do not want to obtain a prediction of the image profile after the treatment. We have the profile image so we will overlay it in a matter of seconds.	of the record: Assembly of an image slightly differs from the one in superimposition. We will in the future change it to the one in
	Select Insert from Image tool in the Ribbon. Image Insert Remove	Images are put to its stage and we choose a lateral profile image. **Pass dict troops** **A J J J J J J J J J J J J J J J J J J	VTO.

	Additional tips – VTO			
#	Picks	Technical Specialist Talk Track	Notes	
	Select an image and press OK button. Select a lolipop and move iz to the tip of the nose	Image is put on canvas. But it is does not fit. It is too big and it is not rotated properly. A red dot in a lolipop is a center of rotation. We will put it on a prominent easy to trace point for example tip of the nose.		
	Grab the image anywhere and align both tip of the nose one on top of the other.	A Contraction of the Contraction		
	Now grab the corner of the image and adjust image and tracing. (use mouse wheel to resize canvas)	Tod. owstr		
	Press Image button on canvas again to finish the process of insertion.			

	Additional tips – VTO			
#	Picks	Technical Specialist Talk Track	Notes	
	Press Prediction tool in the ribbon. Prediction	When we are satisfied we can do the calculation of the predicted profile.		
	Push Present	Some predefined view states are available. There are four state toggle buttons in the ribbon for analysis networks and images.		
	Before After Image Push Prediction	If I push Before (Image) button, unmodified image will appear and the view state of network will not change.		
	Push Simulation	If I push After (Image) button, predicted image will appear.		
	Before After Tracing	If I want to have after treatment tracing I push After (Network) button. By playing with view states I can generate several predefined ways of displaying the treatment plan.		



	Additional tips – VTO			
#	Picks	Technical Specialist Talk Track	Notes	
	Press Angle tool in the ribbon. Angle Select gray NB and green NB	Measurements can be done between any compatible entities for example between NB plane in initial analysis and NB in Treatment plan or inside a treatment plan itself. If we move tissue, the measurement of the angle will change. We can also make a distance from point to point or to plane measurement, add some geometry elements and play with other options. Any number of predictions can be generated from an existing analysis.		

	Additional tips – Teeth properties		
#	Picks	Technical Specialist Talk Track	Notes
#	Rightclick on the tooth silhouette. Select Tooth Properties. Select fixed options and enter both values for length (25 mm) and width (10 mm). Press OK button	Teeth can be given some size properties: Length and Width. The property dialogue is shown by pressing LMB on tooth silhouette and selecting Properties option. Tooth properties Tooth properties Tooth properties Length Free Free Fixed Syz Midth Free Fixed Syz Midth Free Fixed Syz Midth Fixed Fixed Syz Midth Fixed Fixed Fixed Syz Midth Fixed Fixed Fixed Syz Midth Fixed Fixed	!!!! PLEASE NOTE Analysis MUST be calibrated in order to be able to define tooth size.