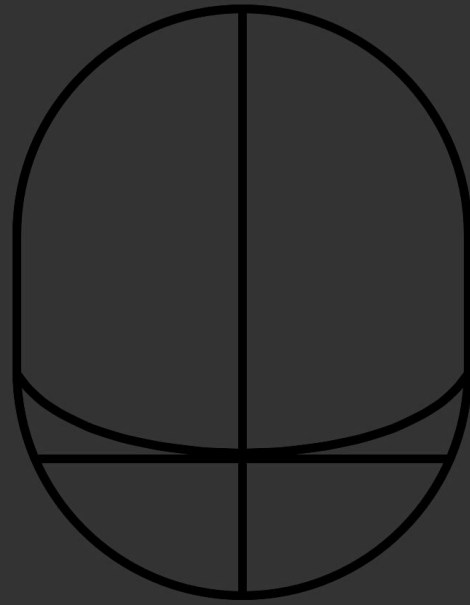
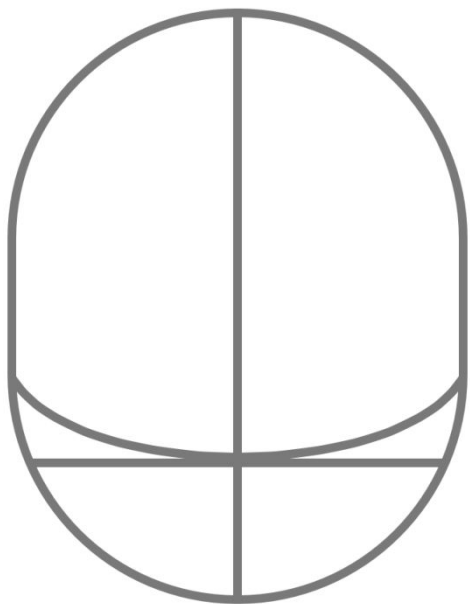


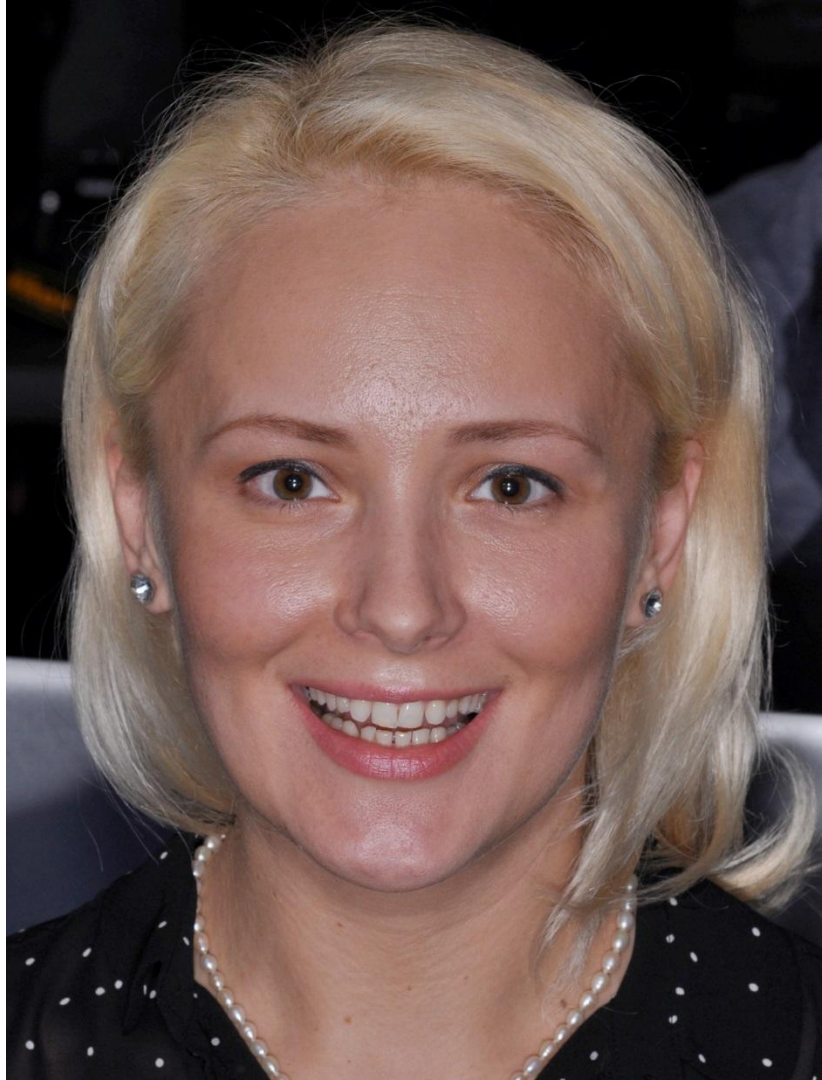
**DSD**  
Digital **Smile** Design



**DSD**  
Digital **Smile** Design

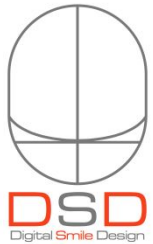


**DSD**  
Digital Smile Design



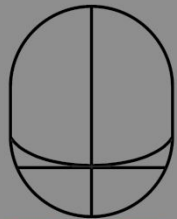
**Dr.**

**Paciente:**



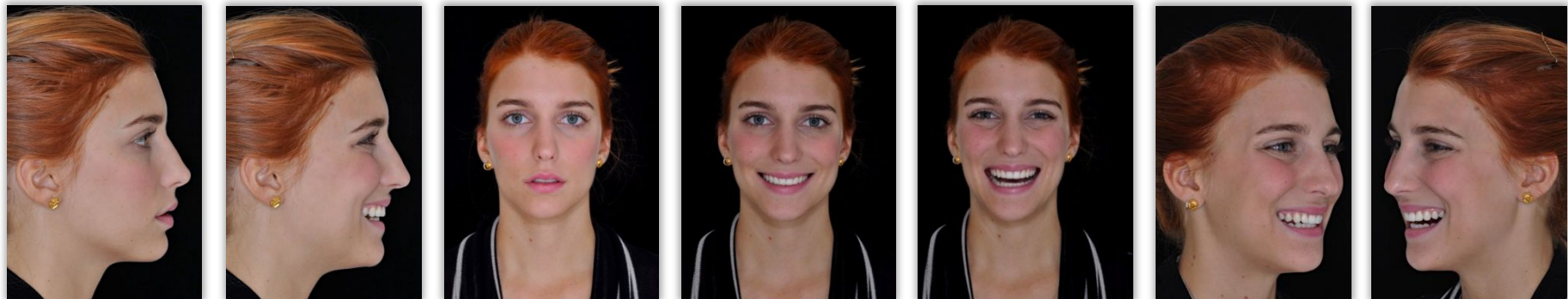
**Dr(a).**

**Paciente:**



**DSD**  
Digital Smile Design

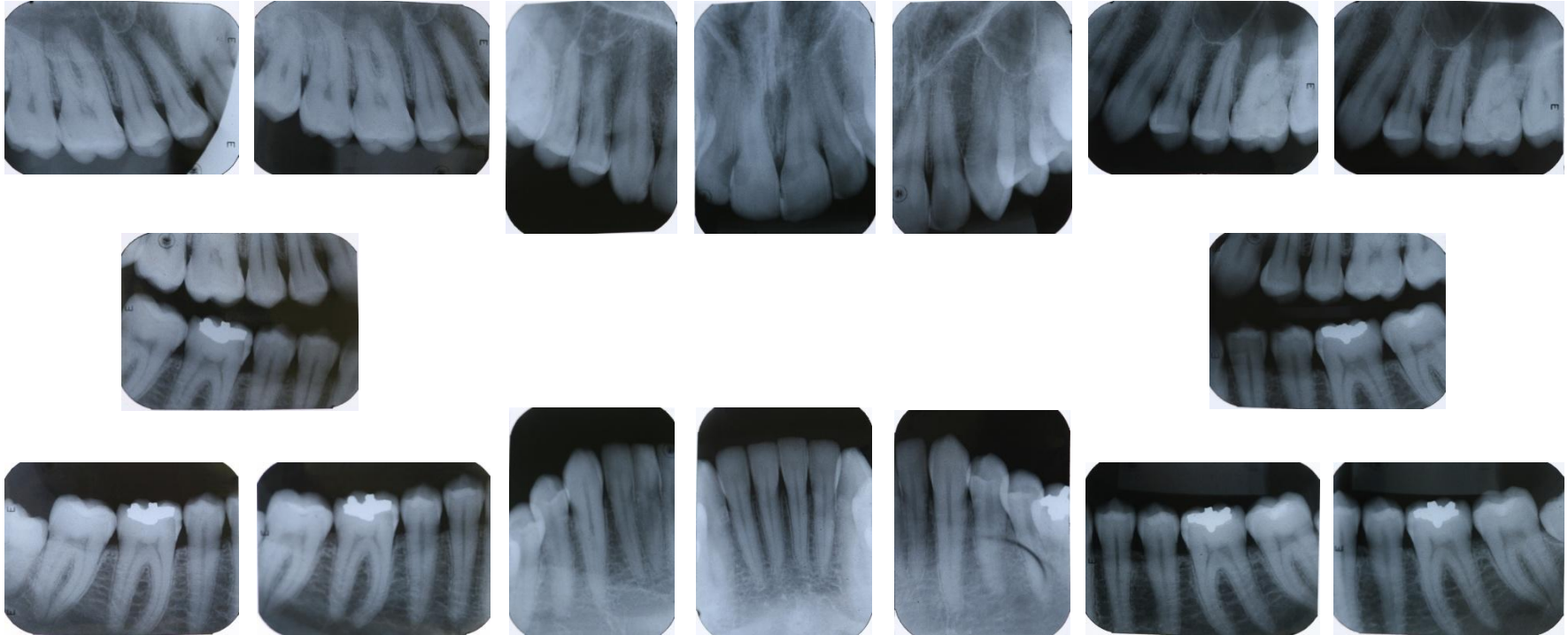
# photo



V



X



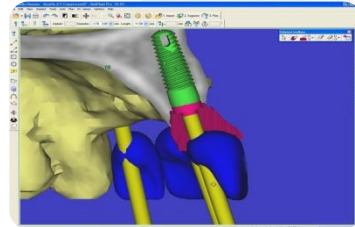
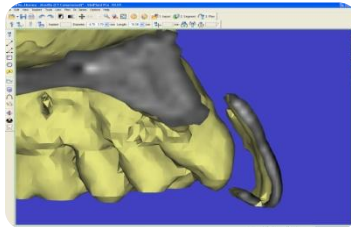
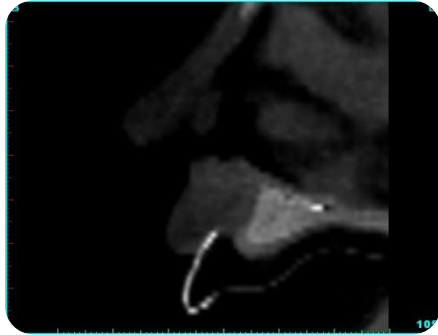
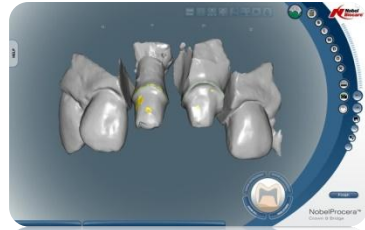




p

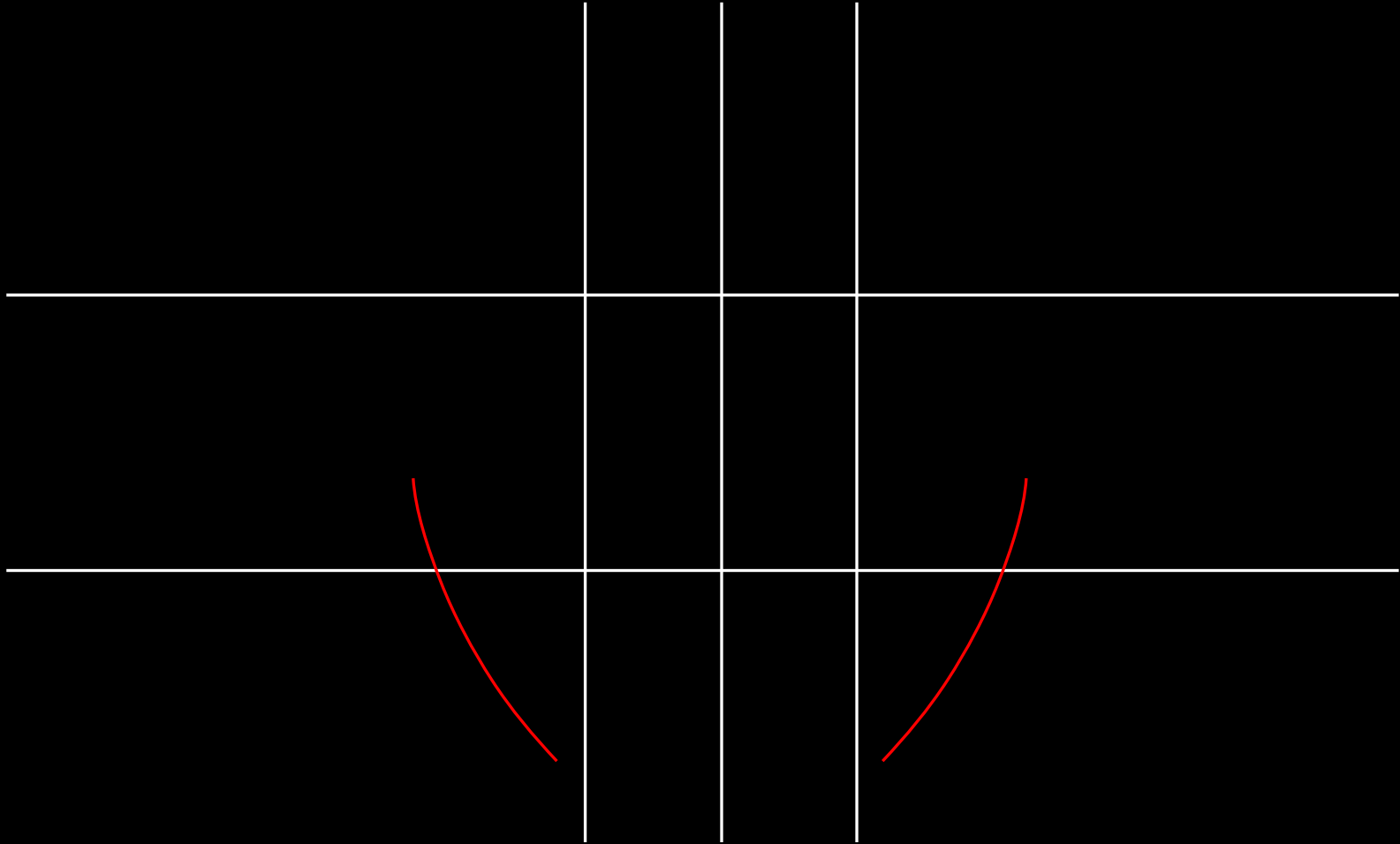


C  
i









# DSD – Tooth Proportion Guides

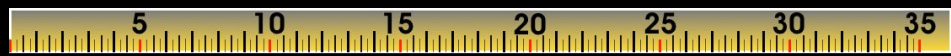
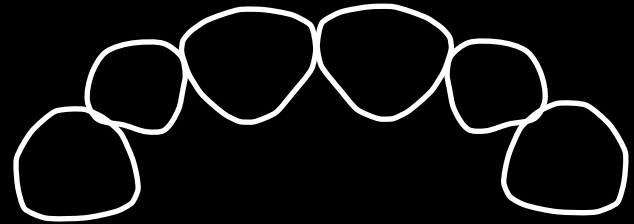


75%

80%

85%

# DSD – Database Elements



# Choose 1st and 2nd most compatible characteristics (move green card and blue card)

A

Organized  
Perfectionist  
Artistic  
Abstractive  
Timid  
Reserved

B

Extroverted  
Communicative  
enthusiastic  
Dynamic  
Impulsive

C

Determined  
Objective  
Explosive  
Intense  
entrepreneur  
Passionate

D

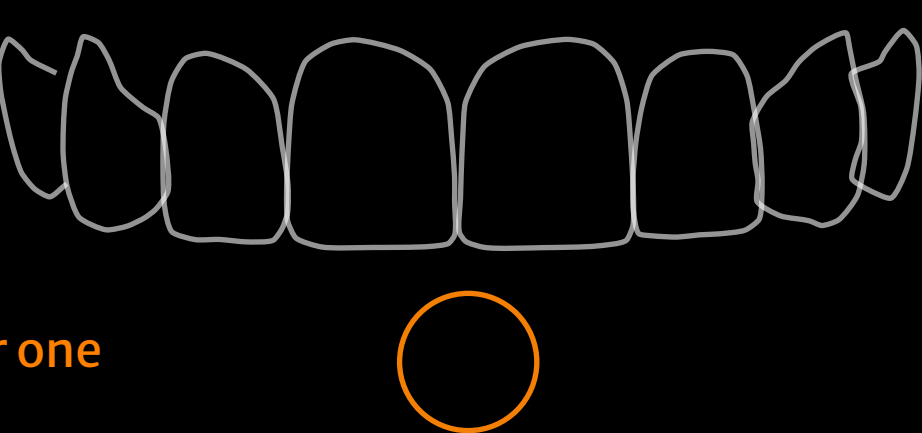
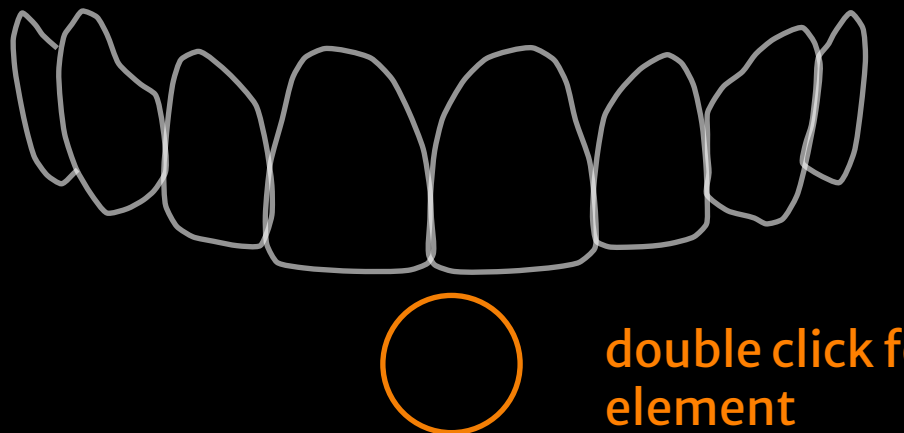
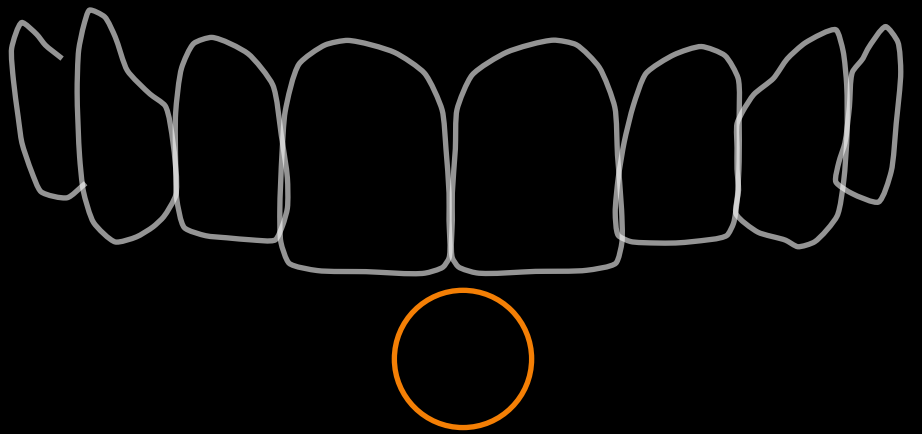
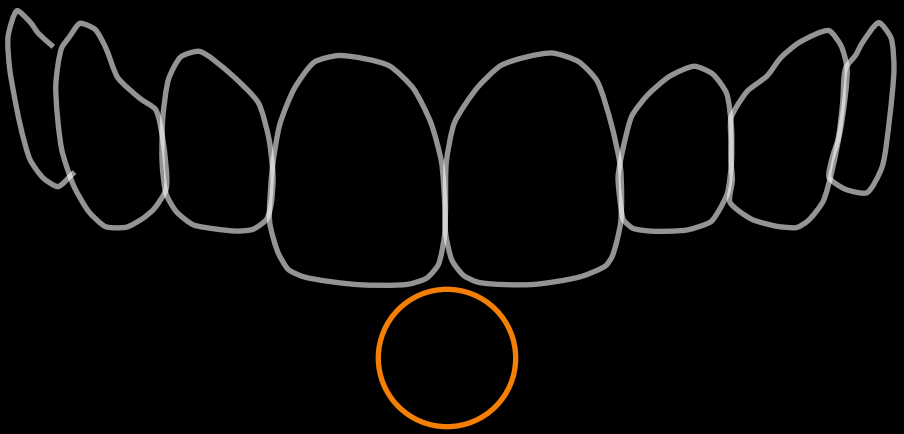
Diplomatic  
Pacific  
Mystic  
spiritualized  
Conformist  
Discreet

1st

2nd



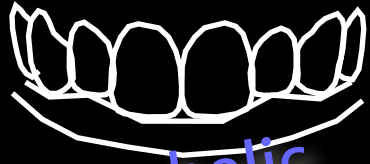
# DSD - Smile Database



double click for one element

# Morpho psychology - Visagism

Sensibl  
e



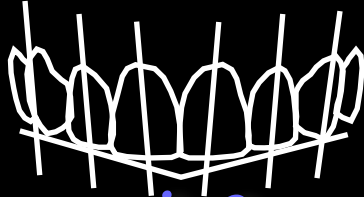
Melancholic

Ova

I

Organized  
Perfectionist  
Artistic  
Abstractive  
Timid  
Reserved

Dynami  
c



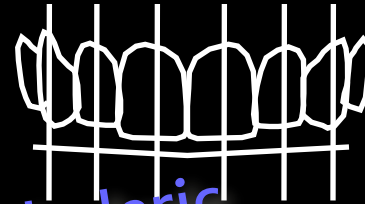
Sanguine

Triangul

ar

Extroverted  
Communicative  
enthusiastic  
Dynamic  
Impulsive

Stron  
g



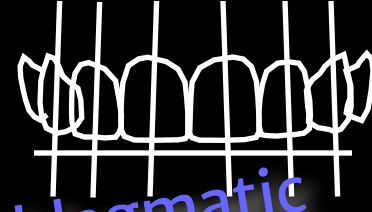
Choleric

Rectangula

r

Determined  
Objective  
Explosive  
Intense  
entrepreneur  
Passionate

Cal  
m



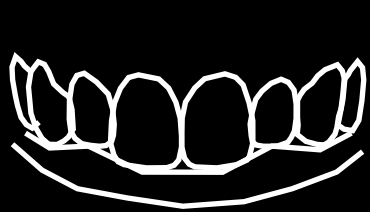
Phlegmatic

Squar

e

Diplomatic  
Pacific  
Mystic  
spiritualized  
Conformist  
Discreet

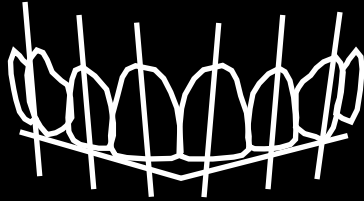
# Morpho psychology - Visagism



Ova

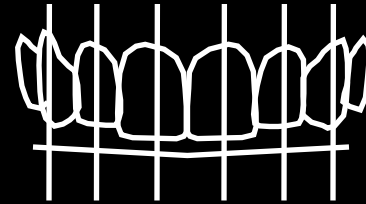
|

Dominant Centrals  
Rounded cusps  
Delicate laterals  
Round Arch



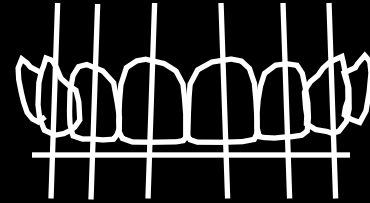
Triangular

Ascendant Smile  
Line  
Converging Axis  
Incline cusps



Rectangular

Dominant  
Centrals  
Flat incisal edge  
Aggressive Cusps  
Vertical Axis



Square

Lack of Dominance  
Diverging Axis  
Horizontal  
arrangement

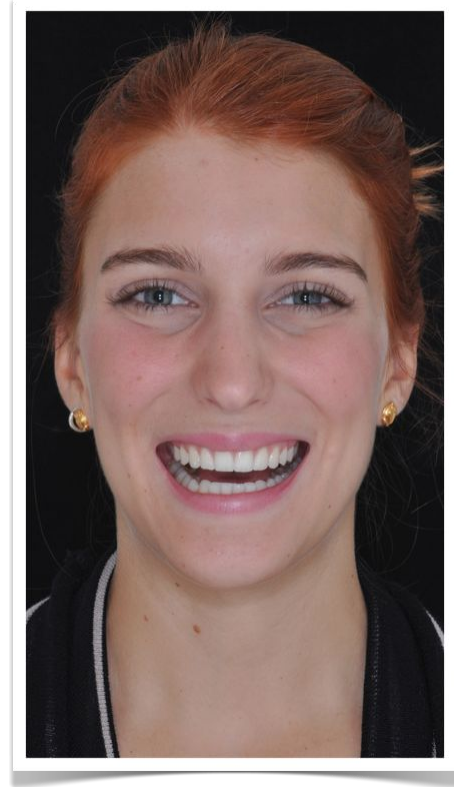
# Morpho psychology – Visagism



## Visagism Interview

What do you want to express with your smile?

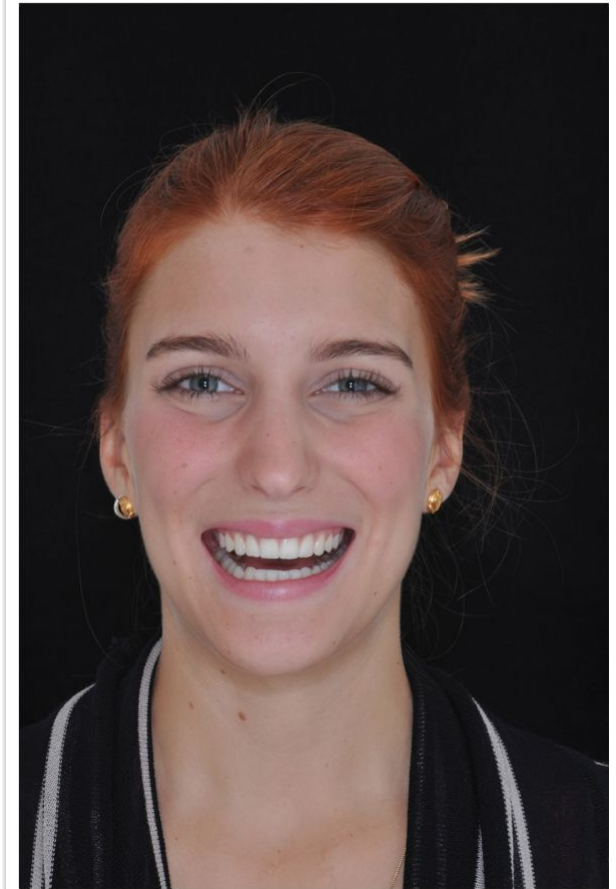
What aspects of your personality do you want to highlight and which ones you would like to soften?



# Video Interview

## Initial Conversation

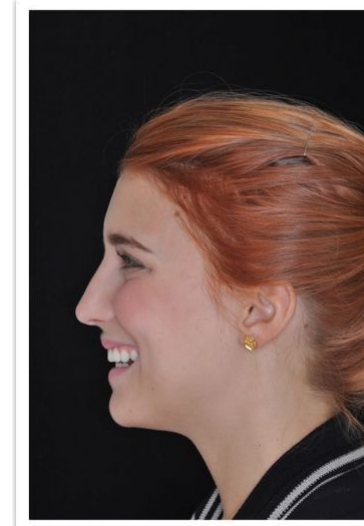
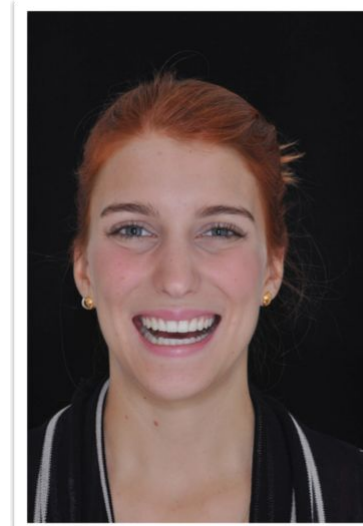
- What is your main concern ?
- What is wrong with your smile ?
- Form, Color, Overall esthetics ?
- (Give the mirror) - What else ?
- When was the last time you have been to a dentist ?
- What was the reason for your last visit ?
- How do you see yourself ? (esthetically speaking)
- Tell me/us about you (character, personality)
- Any hobbies ?
- Travels ? Where did you go last time ?
- What is your job ?
- Do you like it ?



# Video Interview

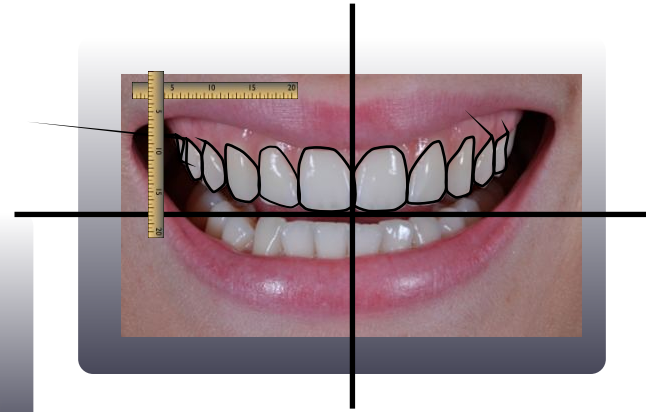
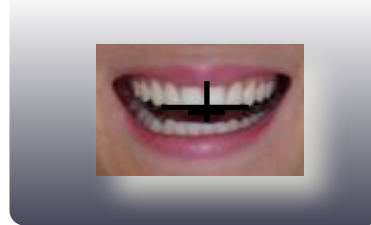
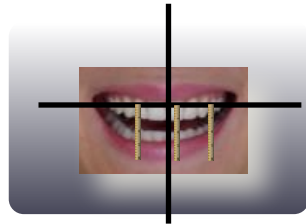
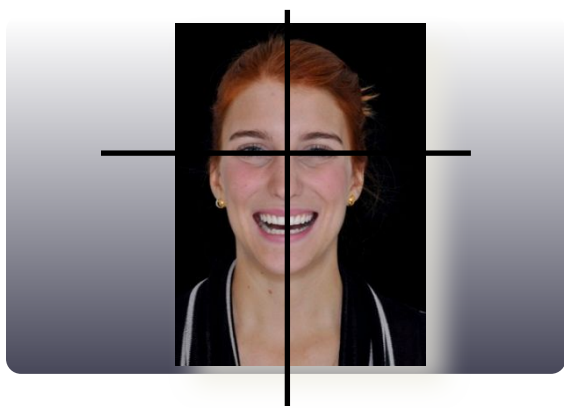
## Technical Recording

- Counting 10-1 (front face shot)
- Counting 10-1 (close-up shot)
- Counting 5-1 (profile close-up shot) x 2 if needed
- Counting 5-1 (front close-up shot)
- Counting 5-1 (profile close-up) x 2 if needed

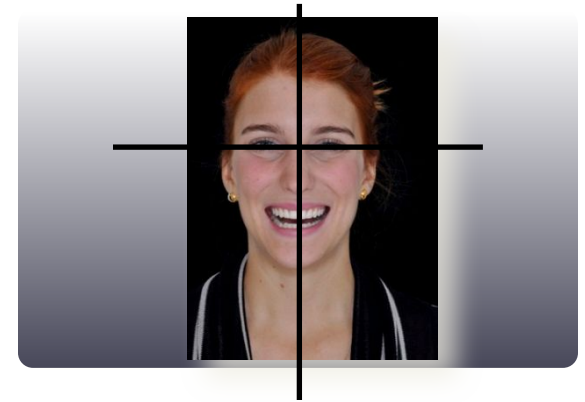


# DSD - Digital Smile Design

## Basic Step-by-Step



# DSD – Step 1 – Digital Facebow

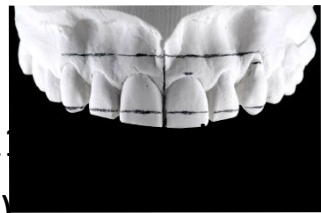


- bring face photo on to the cross slide of your template
- adjust the size of the photo so it is inside the slide limits
- move to “back” position, behind the cross lines
- center the photo on the screen
- move the horizontal line to the eye area
- fine move so it crosses the middle of one pupila
- click on the photo
- on the inspector menu, click the metrics (ruler) icon
- rotate using the arrows of the angle option for precise degree by degree rotation
- line up both pupillas to the horizontal line the most accurate as possible
- (adjust the average horizontal photo position if the bi-pupillar line is not the only reference)
- move the horizontal line so it crosses the teeth (any position)
- click on the photo and move it with the arrows of the keyboard (right and left)
- position the photo finding the best face midline (filtrum, glabella, mento)

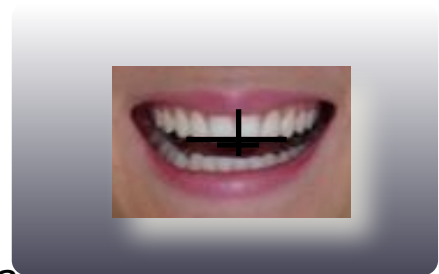


# DSD - Step 2 - Model Transferring

- mask the photo reducing its size focusing the mouth area
- reduce the lines so they fit the cropped picture
- select the photo + horizontal line + vertical line and group them
- enlarge the group so it takes most of the slide
- re-position if needed the horizontal line so it crosses the anterior teeth
- make sure the line is above the incisal edges of the anterior teeth
- bring the 20mm ruler image to the slide and get your digital caliper
- measure on the patient or on the model the distance between the distal (1)
- draw 2 lines crossing exactly the position that you used to measure (distals)
- position the zero value of the ruler on one of the lines
- adjust by distorting the ruler image to the exact measurement lining up to the second line
- your ruler is calibrated now
- rotate the ruler vertically (use the shift key) and position on the incisal of 3 selected teeth
- check the numbers that the line crosses the ruler
- transfer the 3 distances by marking the model with your caliper and connect them



# DSD – Step 3 – Transferring the High Res Intraoral Image



- duplicate the slide, save the presentation
- ungroup if needed, erase all lines and all rulers
- we will design now 3 transferring lines
- draw the first line from the tip of the canine to the tip of the other canine
- draw a second line from the middle of the central to the middle of the other central
- draw a third line exactly on the mid line of both centrals
- select the photo and erase
- bring the intraoral high res photo with retractors and black background
- adjust its size and rotation to match the 1st line (canine to canine)
- erase the first line (canine to canine)
- move the picture so it matches the best average between the 2nd and 3rd lines
- erase the 2nd and 3rd transferring lines
- your picture now is transferred and has the same size, rotation, x position and y position

# DSD – Step 4 – Smile Design from our Database

- copy and paste from any previous slide the horizontal and vertical lines
- copy the curve from our database slide and adjust to the patient's smile
- bring the desired proportion guide (75%, 80% or 85%) and position on 11 or 21
- start adjusting the curve respecting the proportion guide limits
- find the patient's proportion if desired and leave one slide with this annotation
- move the proportion guide rectangle to start finding the best possible central position
- find the central's incisal edge limit by looking the bottom line of the rectangle
- define the "meeting point" by placing the horizontal line and the curve's lowest point
- perform the visagism exercise if desired to find the best shape together with the patient
- bring the best shape, adjust its height and width to fit the rectangle proportion
- make any modification by modifying its drawing points (double click on the tooth line)
- from the existing central, duplicate, flip horizontally, position the other central
- with both centrals, repeat the steps to design the other teeth
- bring the calibrated ruler and measure the modifications to send the design to the lab
- use the measurements to also communicate with your surgeon

