

# Digital Technology and Voice Training

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# *Introduction*

- ◆ Approaches to teaching singing
  - ◆ „Smelling the roses“ - Using Traditional Imagery
    - ◆ The Singing Instrument - Using Physiology
  - ◆ The digital way - Using Technological Assistants



*Next step:*

Building bridges



?????

- ◆ ? Why is this subject in the section on voice science?
- ◆ ? What is the missing link?
- ◆ ? Where do I begin to look?
- ◆ ? Can't it be simpler?  
(at least at the beginning...)



# *The third approach*

- The next generation is different.
  - Technology is objective.
- Objectivity reinforces statements.
  - It extends my repertoire.



# *Voice analysis , for example*

- ◆ Offers objectivity
- ◆ Reinforces and builds trust
- ◆ Extends my repertoire



*WWWfW?\**

Student-oriented  
teaching asks:

\*What, when, why and  
how for whom?



## Case studies:

A - „*That means nothing to me!*“

B - „*I make holes!*“ : Legato

C - „*I make bricks!*“ : Dynamic  
tone

D - YouTube: the energy question

E - Listen, or write?: the recorded  
lesson



# *Digital Technology*

- ◆ here to stay
- ◆ has many possibilities
- ◆ can be simple
- ◆ opens many doors
- ◆ students have ideas
- ◆ needs methodology



*Technology is*

not a substitute  
for the teacher,

but a challenge to our  
development.



*WWWfW?\**

Student-oriented  
teaching asks:

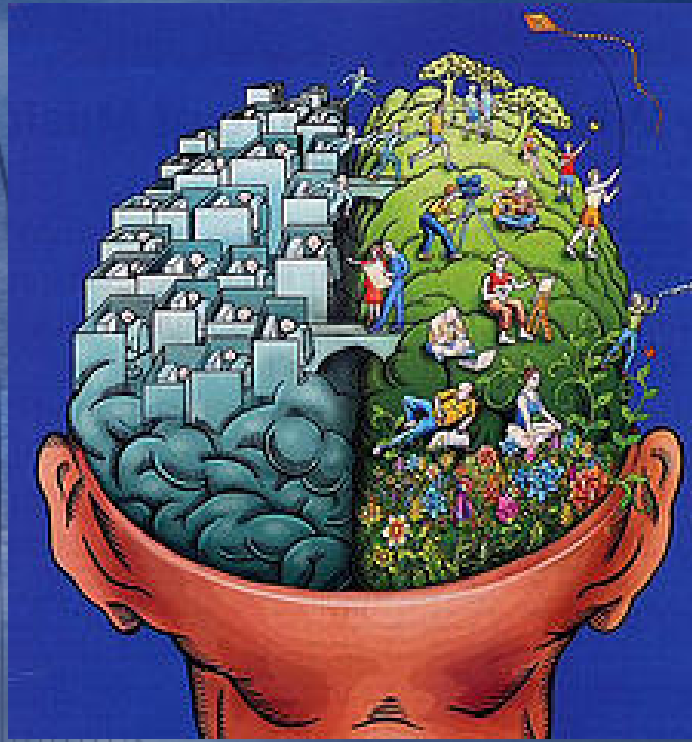
\*What, when, why and  
how for whom?

# *Learning typology, styles and strategies*



# *Perception*

Cognitive  
perception



Global  
perception

# *Using our senses*





# *Processing knowledge involves*

- ◆ Concrete experience
- ◆ Reflective observation
- ◆ Abstract hypothesis
- ◆ Active testing

David and Alice Kolb 1984



# *In order to learn,*

## Students need to

- ◆ be involved
- ◆ explore
- ◆ have things explained
- ◆ apply their knowledge
- ◆ evaluate the results

Kolb



# *Six Learning Strategies*

- ◆ Listeners
- ◆ Readers
- ◆ Writers
- ◆ Talkers
- ◆ Watchers
- ◆ Doers

Dave Straker (UK)



# *Approaches*

- ◆ Imagery
- ◆ Physiology
- ◆ Technology

A blue-tinted photograph of the Golden Gate Bridge at night. The bridge's towers and suspension cables are visible against a dark blue sky and water. The text "Navigating by the stars or using GPS?" is overlaid in white, italicized font.

*Navigating by the stars  
or using GPS?*



*Building walls or windmills?*

*When the winds of change are blowing,  
one can either erect a wall  
or build a windmill.  
I prefer to build the windmill.*

◆ Hans-Dietrich Genscher