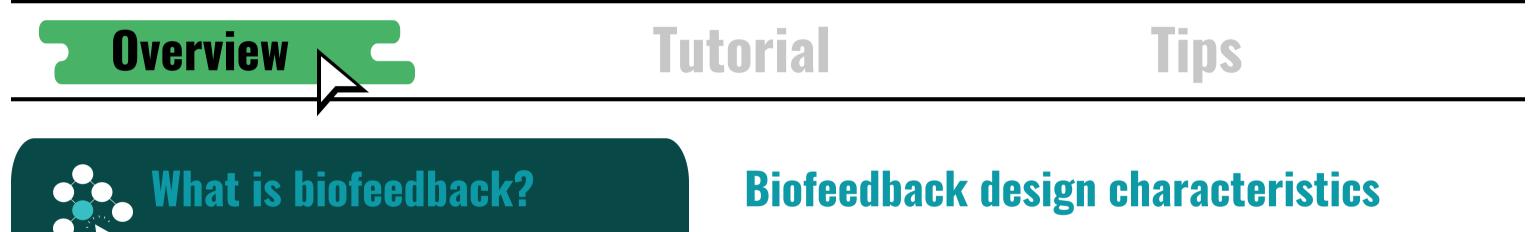


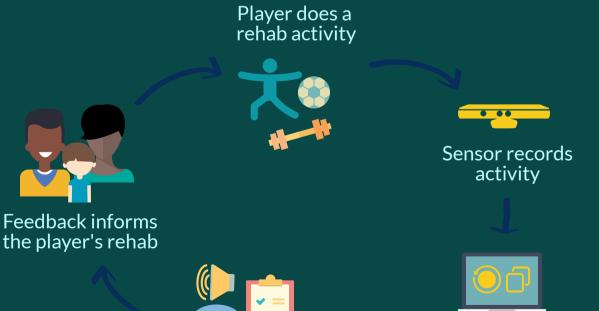
Making a rehab video game takes input from clinicians, developers and players. Here are helpful tips for teams looking to add biofeedback into their video games



Biofeedback gives people information about their body. People use biofeedback to learn how to control their body better. Biofeedback can help in learning new skills.

### **Biofeedback in games**

Games can deliver biofeedback to promote learning:



Feedback based on activity is generated Activity

controls game

Well integrated biofeedback closely links game feedback with the rehab activity.



## Feedback can be about:

- movement (speed, accuracy, distance)
- performance (good or poor)
- health data (heart rate, muscle activity)



## Feedback can be delivered in different ways:

- audio
- visual
- tactile

### Feedback can be given at different times:

- during or after a game
- when the player performs well or poorly
- with decreasing frequency as the player improves

Systematic review source

### Infographic creators

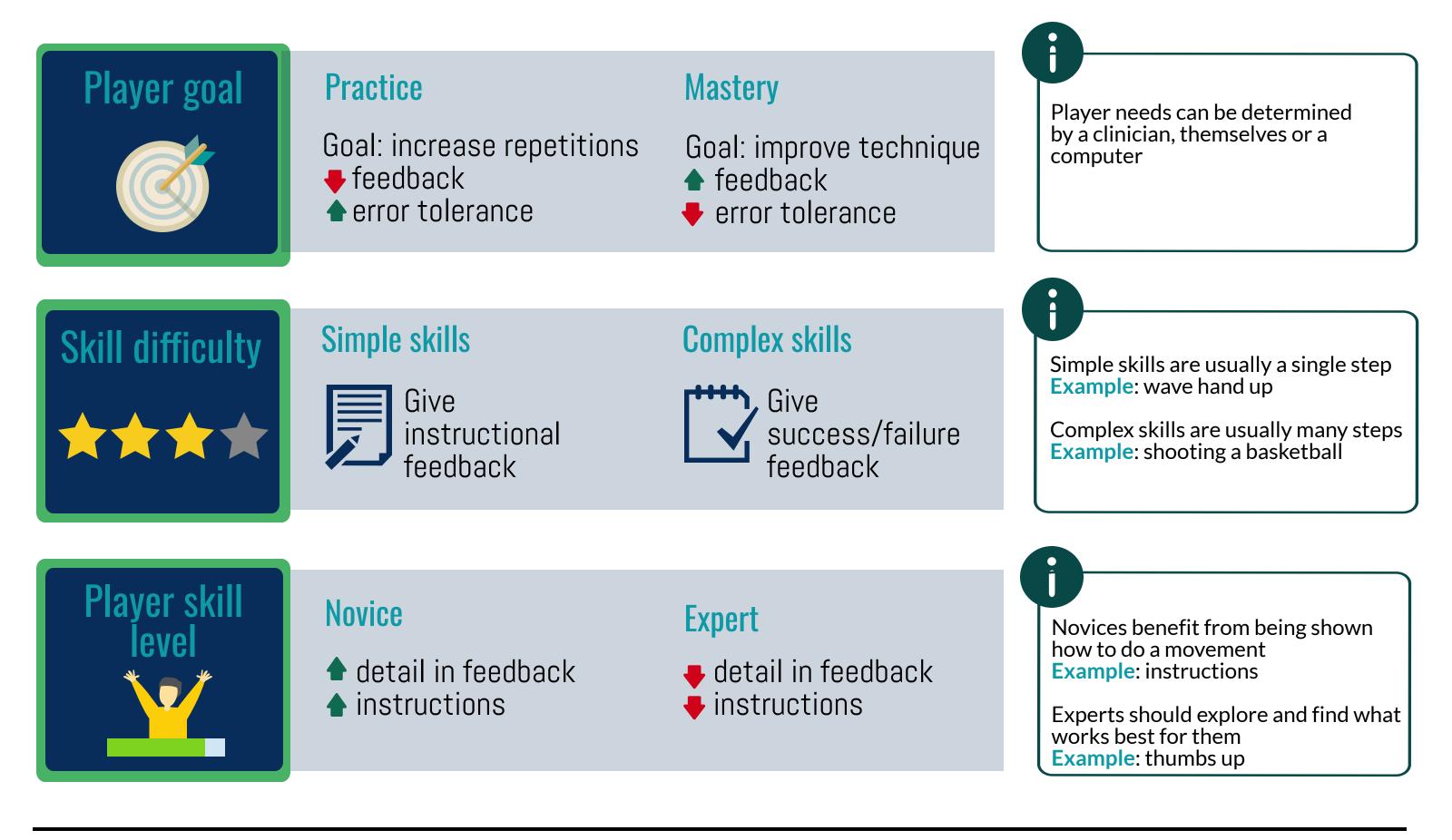
### Authorship hidden for blinding

# **Overview**

**Tutorial** 

# Tips

Feedback should match the player's needs:



Tutorial



Here are 3 approaches to feedback that are hardly used even though they can be effective.

# **Build in choice**

Giving players choice can help motivate them to learn new skills. They might choose to:

- get feedback
- ignore feedback
- customize feedback

# Less is more

As players get more skilled, they should rely on themselves more than on the feedback. Only give feedback when they need it:

- once a skill is learned, no lacksquarelonger provide instructions
- only provide feedback when the player succeeds/fails



Changing how feedback looks helps the player become more independent. Variations can be:

- giving feedback at the end of the level instead of during the level
- going from more detailed feedback (e.g. instruction) to less detailed (e.g. a sound)







