

Tutorial «Mixing an Orchestra»

History (V 1.81, March 2025)

English	Deutsch
<p>March, 2025 - V1.81</p> <p>New: - IRs for Depths 2025</p> <p>Additions/Changes: - Creating Depths II - Downloads</p> <p>General: - Some improvements, mainly text and links. - Some smaller adjustments/updates to the content.</p>	<p>März, 2025 - V1.81</p> <p>Neu: - IRs for Depths 2025</p> <p>Additions/Changes: - Creating Depths II - Downloads</p> <p>Generell: - Einige Verbesserungen, hauptsächlich Text und Links. - Einige kleinere Anpassungen/Aktualisierungen des Inhalts.</p>
<p>January, 2025 - V1.80</p> <p>New: - Reverb-Concept - Recording an Orchestra (How to.../ yourself) - Mixing A Recorded Orchestra (with recorded tracks of a real orchestra) - Mixing Dry Instruments (incl. Video and Practice)</p> <p>Additions/Changes: - Useful Effects / Nützliche Effekte - Basics (about Reverbs) - Convolution Reverbs - Algorithmic Reverbs - Mastering Basics I / Basics II - Binaural Audio - Monitor Controller</p> <p>General: - Several adjustments to the new design - Some improvements, mainly text and links. - Some smaller adjustments/updates to the content.</p>	<p>Januar, 2025 - V1.80</p> <p>Neu: - Reverb-Concept - Recording an Orchestra (wie...? / selber) - Mischen eines "Recorded Orchestra" (mit aufgenommenen Spuren eines echten Orchesters) - Mixing Dry Instruments (inkl. Video und Übung)</p> <p>Additions/Changes: - Useful Effects / Nützliche Effekte - Basics (über Reverbs) - Convolution Reverbs - Algorithmic Reverbs - Mastering Basics I / Basics II - Binaural Audio - Monitor Controller</p> <p>Generell: - Mehrere Anpassungen an das neue Design - Einige Verbesserungen, hauptsächlich Text und Links. - Einige kleinere Anpassungen/Aktualisierungen des Inhalts.</p>
<p>March, 2024 - V1.77b</p> <p>New: - A new responsive design <i>Recommended display for content and navigation: Full HD 1920x1080 The tutorial design now corresponds to that of my home page.</i></p>	<p>März, 2024 - V1.77b</p> <p>Neu: - Ein neues responsives Design Empfohlene Anzeige für Inhalt und Navigation: Full HD 1920x1080 Das Tutorial-Design entspricht nun dem meiner Website.</p>
<p>December, 2023 - V1.77</p> <p>New: - Basics I (Equalizer) - A finished mix is explained I (Pirates of the caribbean)</p> <p>Additions/Changes: - Setup Mixing Console (Mixing Instruments from different Libraries) - Useful Effects / Nützliche Effekte - Installation (Digital-Input Studio-Monit. -> System 2023 Createc) - The perfect Mix >> Basics (A good mix - explained graphically)</p>	<p>Dezember, 2023 - V1.77</p> <p>Neu: - Basics I (Equalizer) - Ein fertiger Mix erklärt I (Pirates of the caribbean)</p> <p>Ergänzungen/Änderungen: - Setup Mixing Console (Mischen von Instrumenten aus verschiedenen Libraries) - Useful Effects / Nützliche Effekte - Installation (Digital-Input von Monitor -> System 2023 Createc) - Der perfekte Mix >> Basics (Ein guter Mix - grafisch erklärt)</p>

<p>November, 2022 - V1.75</p> <p><i>Some browsers did not manage with 1.70 to display the navigation correctly. Therefore...</i></p> <p>New:</p> <ul style="list-style-type: none"> - Change to another responsive design with different navigation. - New software version for creating the tutorial. - Real Example II (<i>3b Mixing Solos</i>) - Real Example III (<i>3b Mixing Solos</i>) - Mastering with OZONE & Co (What can Mastering PlugIns do? / What can they not do?) <p>Additions/Changes:</p> <ul style="list-style-type: none"> - Studio Monitors - Practice / Übungen (3b Mixing Solos) - Basics (<i>Panner: New content & adjustments</i>) - Practice I / Übungen I (<i>Solution added</i>) - Important-Wichtig (<i>Mixing with Audio-Files</i>) 	<p>November, 2022 - V1.75</p> <p>Einige Browser haben es nicht geschafft, die Navigation korrekt anzuzeigen. Deshalb...</p> <p>Neu:</p> <ul style="list-style-type: none"> - Wechsel zu einem anderen resp. Design mit anderer Navigation. - Neue Software-Version zur Erstellung des Tutorials - Real Example II (<i>3b Mixing Solos</i>) - Real Example III (<i>3b Mixing Solos</i>) - Mastering mit OZONE & Co (<i>Was können Mastering-PlugIns? / Was nicht?</i>) <p>Ergänzungen/Änderungen:</p> <ul style="list-style-type: none"> - Studio Monitors - Practice / Übungen (<i>3b Mixing Solos</i>) - Basics (<i>Panner: Neuer Inhalt & Anpassungen</i>) - Practice I / Übungen I (<i>Lösung hinzugefügt</i>) - Important-Wichtig (<i>Mixing mit Audio-Files</i>)
<p>April, 2022 - V1.70</p> <p>New:</p> <ul style="list-style-type: none"> - Change to a new design that adapts responsively to the used screen. <i>As a rule, this leads to larger fonts and hopefully, in most cases, more pleasant reading.</i> - Mixing: 2 Examples - Sitemap "Tutorial" in the lower Menu <p>Additions/Changes:</p> <ul style="list-style-type: none"> - Aimes - Parallel-Compression (my Setup) - Limiter/Basics - Metering / Correlation Meter / Analyzer - Stereo-Tools / Basics - Spectrum Editor / Practice / Übungen - Preconditions / Installation <p>General:</p> <ul style="list-style-type: none"> - Several adjustments to the new design - Some improvements. - Some adjustments/updates of the content 	<p>April, 2022 - V1.70</p> <p>Neu:</p> <ul style="list-style-type: none"> - Wechsel zu einem neuen Design, das sich responsiv an den Bildschirm anpasst. <i>In der Regel führt das zu grösserer Schrift und hoffentlich in den meisten Fällen zu angenehmerem Lesen.</i> - Mixing: 2 Examples - "Sitemap" im unteren Menu <p>Ergänzungen/Änderungen:</p> <ul style="list-style-type: none"> - Aimes (Ziele des Mischens) - Parallel-Compression (mein Setup) - Limiter/Basics - Metering / Correlation Meter / Analyzer - Stereo-Tools / Basics - Spektrum Editor / Practice / Übungen - Preconditions / Installation <p>Generell:</p> <ul style="list-style-type: none"> - Mehrere Anpassungen an das neue Design - Einige Verbesserungen, hauptsächlich Text. - Einige Anpassungen/Aktualisierungen des Inhalts.
<p>January, 2022 - V1.60</p> <p>New:</p> <ul style="list-style-type: none"> - Monoize a Stereosignal - Creating Depths III - Creating Depths IV - A first small mix - Algo-Reverbs & Depths (Creat. Depths only with Algo-Reverbs) - Practice II / Übungen II (for chapter "Algo-Reverbs & Depths") - Practice / Übung II (at Hearing_Gehör) <p>Additions/Changes:</p> <ul style="list-style-type: none"> - Sound analysis (at "Mastering") formerly "Sound Design" - EQ-Mistakes-Fehler > E2 (Customer example: Remove "bad frequencies") - Useful Effects / Nützliche Effekte (mvMeter2) - Compressor types (FET) - Practice III / Übungen III (Additions / customer feedback in the solutions) - Basics I (Mastering) <p>General:</p> <ul style="list-style-type: none"> - Some improvements. 	<p>Januar, 2022 - V1.60</p> <p>Neu:</p> <ul style="list-style-type: none"> - Monoize a Stereosignal - Creating Depths III - Creating Depths IV - Ein erster kleiner Mix - Algo-Reverbs & Depths (Herst. Raumtiefen nur mit Algo-Reverbs) - Practice II / Übungen II (zum Kapitel "Algo-Reverbs & Depths") - Practice / Übung II (at Hearing_Gehör) <p>Ergänzungen/Änderungen:</p> <ul style="list-style-type: none"> - Sound analysis (Mastering) vormals "Sounddesign" - EQ-Mistakes-Fehler > D2, (Kundenbeispiel: Entfernen "schlechte Frequenzen") - Useful Effects / Nützliche Effekte (mvMeter2) - Compressor types (FET) - Practice III / Übungen III (Ergänzungen / Kundenfeedback in den Lösungen) - Basics I (Mastering) <p>Generell:</p> <ul style="list-style-type: none"> - Einige Verbesserungen, hauptsächlich Text.

<p>April, 2021 – V1.55</p> <p><i>New:</i></p> <ul style="list-style-type: none"> - New Impuls Responses (Cre2021_Early_Reflections for creating depths) - Using the ER-Irs for “pushing into the depths” of instruments - Dither <p><i>Additions:</i></p> <ul style="list-style-type: none"> - at Useful Effects / Nützliche Effekte - at Air-EQ <p><i>General:</i></p> <ul style="list-style-type: none"> - Some text improvements. 	<p>April, 2021 – V1.55</p> <p><i>Neu:</i></p> <ul style="list-style-type: none"> - Neue Impuls Responses (Cre2021_Early_Reflections for creating depths) - Depths 1-4/ Halltiefen1-4 für das “in die Tiefe schieben” von Instrumenten - Dither <p><i>Ergänzungen:</i></p> <ul style="list-style-type: none"> - im Kapitel Useful Effects / Nützliche Effekte - im Kapitel Air-EQ <p><i>Generell:</i></p> <ul style="list-style-type: none"> - Textverbesserungen
<p>June, 2020 – V1.50</p> <p><i>New:</i></p> <ul style="list-style-type: none"> - Panner & Crossfeed - The perfect Mix >> Basics - Mixing as in reality? - Mastering Basics I - Mastering Basics III - Mastering Practice IV - Checklist_my mix.pdf [173 KB] - Binaural Audio (new chapter) <p><i>Additions:</i></p> <ul style="list-style-type: none"> - at EQ-Mistakes-Fehler - at EQ in AudioTrack - Preconditons_Hearing_Questions.pdf [163 KB] - 2 Mixing - Setup Mixing Console (reorganized) <p><i>General:</i></p> <ul style="list-style-type: none"> - Some improvements. 	<p>Juni, 2020 – V1.50</p> <p><i>Neu:</i></p> <ul style="list-style-type: none"> - Panner & Crossfeed - Der perfekte Mix >> Basics - Mischen wie in der Realität? - Mastering Basics I - Mastering Basics III - Mastering Übungen IV - Checkliste für meinen_Mix.pdf [173 KB] - Binaural Audio (neues Kapitel) <p><i>Ergänzungen:</i></p> <ul style="list-style-type: none"> - im Kapitel EQ-Mistakes-Fehler - im Kapitel EQ in AudioTrack - Preconditons_Gehör_Fragen.pdf [142 KB] - 2 Mixing - Setup Mixing Console (neu organisiert) <p><i>Generell:</i></p> <ul style="list-style-type: none"> - Textverbesserungen
<p>September, 2019 – V1.45</p> <p><i>New:</i></p> <ul style="list-style-type: none"> - Spectrum-Editor (partly already in V1.40) - Air-EQ - Eqs sound different <p><i>Additions:</i></p> <ul style="list-style-type: none"> - Aimes Extension of the content - Matching EQ (Used also OZONE 8 as Matching EQ) - Parametric EQ (Changed Application C) - EQ-Mistakes-Fehler (Added a 4th mistake) - EQ Practice / Übungen (Important Note at “LOW CUT”) <p><i>General:</i></p> <ul style="list-style-type: none"> - Improvements in the chapters “Compressor, EQ & Limiter”. 	<p>September, 2019 – V1.45</p> <p><i>Neu:</i></p> <ul style="list-style-type: none"> - Spectrum-Editor (zum Teil schon in V1.40) - Air-EQ - Eqs sound different <p><i>Ergänzungen:</i></p> <ul style="list-style-type: none"> - Aimes Erweiterung des Inhaltes - Matching EQ (benutzte auch OZONE8 EQ als “Matching EQ”) - Parametric EQ (wechselte Applikation C) - EQ-Mistakes-Fehler (Ergänzt: einen 4. Fehler) - EQ Practice / Übungen (Wichtiger Hinweis bei “LOW CUT”) <p><i>Generell:</i></p> <ul style="list-style-type: none"> - Verbesserungen in den Kapiteln “Kompressor, EQ & Limiter” - Sprachkorrekturen in den Kapiteln “Kompressor, Limiter, EQ”

<p>April, 2019 - V1.40</p> <p><i>New:</i></p> <ul style="list-style-type: none"> - Monitor Controller - Correct Levels / Peak - Level - Part A / Peak - Level - Part B - Creating Depths II >>> 1:1 instructions <p><i>Additions:</i></p> <ul style="list-style-type: none"> - EQ-Mistakes-Fehler - Useful Effects / Nützliche Effekte - Dynamic EQ (Advantage/Disadvantage) - Matching EQ - Loudness-Meter (So how to measure Loudness?) - Panner in Audiotrack <p><i>General:</i></p> <ul style="list-style-type: none"> - Some text improvements (mainly in the German parts). 	<p>April, 2019 - V1.40</p> <p><i>Neu:</i></p> <ul style="list-style-type: none"> - Monitor Controller - Correct Levels / Peak - Level - Part A / Peak - Level - Part B - Creating Depths II >>> 1:1-Anleitung <p><i>Ergänzungen:</i></p> <ul style="list-style-type: none"> - EQ-Mistakes-Fehler - Useful Effects / Nützliche Effekte - Dynamic EQ (Vorteil/Nachteil) - Matching EQ - Loudness-Meter (Loudnessmessung wie nun?) - Panner in Audiotrack <p><i>Generell:</i></p> <ul style="list-style-type: none"> - Ein paar Textverbesserungen (haupts. deutsche Texte)
<p>December, 2018 - V1.35</p> <p><i>New:</i></p> <ul style="list-style-type: none"> - Spectrum-Editor (incl. 2x Practice) <p><i>Additions:</i></p> <ul style="list-style-type: none"> - Useful Effects / Nützliche Effekte <p><i>General:</i></p> <ul style="list-style-type: none"> - Some text improvements 	<p>Dezember, 2018 - V1.35</p> <p><i>Neu:</i></p> <ul style="list-style-type: none"> - Spectrum-Editor (inkl. 2 Übungen) <p><i>Ergänzungen:</i></p> <ul style="list-style-type: none"> - Useful Effects / Nützliche Effekte <p><i>Allgemein:</i></p> <ul style="list-style-type: none"> - Einige Textverbesserungen
<p>November, 2018 - V1.30</p> <p><i>New:</i></p> <ul style="list-style-type: none"> - FAQ - Compressor types - Practice III / Übungen III (Chapter "Compressor") - about Transients - Practice IV / Übungen IV (DeEsser as Dynamic EQ) - Mixing: 10 Steps from Midi - Audio <p><i>Additions:</i></p> <ul style="list-style-type: none"> - at Useful Effects / Nützliche Effekte <p><i>General:</i></p> <ul style="list-style-type: none"> - Some text improvements 	<p>November, 2018 - V1.30</p> <p><i>Neu:</i></p> <ul style="list-style-type: none"> - FAQ - Compressor types - Practice III / Übungen III (Kapitel "Kompressor") - über Transienten - Practice IV / Übungen IV (DeEsser als Dynamik-EQ) - Mixing: 10 Steps from Midi - Audio <p><i>Ergänzungen:</i></p> <ul style="list-style-type: none"> - in Useful Effects / Nützliche Effekte <p><i>Allgemein:</i></p> <ul style="list-style-type: none"> - Einige Textverbesserungen
<p>September, 2018 - V1.25 (not published)</p> <p><i>New:</i></p> <ul style="list-style-type: none"> - Preconditions For Mixing Audio - Matching EQ <p><i>Additions:</i></p> <ul style="list-style-type: none"> - to Studio Monitors - A link to the new article "About Reverbs" <p><i>General:</i></p> <ul style="list-style-type: none"> - Some text improvements (mainly in the German parts). 	<p>September, 2018 - V1.25 (nicht publiziert)</p> <p><i>Neu:</i></p> <ul style="list-style-type: none"> - Voraussetzungen For Mixing Audio - Matching EQ <p><i>Ergänzungen:</i></p> <ul style="list-style-type: none"> - bei Studio Monitors - Ein Link zum neuen Artikel "About Reverbs" <p><i>Allgemein:</i></p> <ul style="list-style-type: none"> - Einige Textverbesserungen (deutsch).
<p>August, 2018 - V1.21</p> <p><i>Improvement:</i></p> <ul style="list-style-type: none"> - Removed modules that could cause errors in certain browsers ("Reverb" and "Useful Plugins"). 	<p>August, 2018 - V1.21</p> <p><i>Verbesserung:</i></p> <ul style="list-style-type: none"> - Module entfernt, die in gewissen Browsern zu Fehlern führen konnten (bei "Reverb" und "Useful Plugins").

<p>August, 2018 - V1.20</p> <p><i>New:</i></p> <ul style="list-style-type: none"> - Parallel-Compression / Practice II / Übungen II - Dynamic & Volume (About the dynamics (volume) in a mix?) - Standards (about Orchestra Setups) - Useful Effects / Nützliche Effekte (recommended VST-Effects) <p><i>Additions:</i></p> <ul style="list-style-type: none"> - to Mastering Basics and Designing Sounds. <p><i>General:</i></p> <ul style="list-style-type: none"> - Some text improvements (mainly in the German parts). 	<p>August, 2018 - V1.20</p> <p><i>Neu:</i></p> <ul style="list-style-type: none"> - Parallel-Compression / Practice II / Übungen II - Dynamik & Lautstärke (Wie gross soll im Mix die Dynamik der Lautstärke sein?) - Standards (über die Platzierung der Instrumente auf der Bühne) - Useful Effects / Nützliche Effekte (empfohlene VST-Effekte) <p><i>Ergänzungen</i></p> <ul style="list-style-type: none"> - bei Masetring Basics und Designing Sounds. <p><i>Allgemein:</i></p> <ul style="list-style-type: none"> - Einige Textverbesserungen (deutsch).
<p>August, 2018 - V1.10</p> <p>Publication</p> <p>Updates will be free until further notice.</p>	<p>August, 2018 - V1.10</p> <p>Publikation</p> <p>Updates sind bis auf weiteres kostenlos.</p>

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