Ableton Live 11 Complete API Reference & Installation Guide

Table of Contents

Overview

Ableton Live 11 provides multiple ways to programmatically control the DAW:

1. **AbletonOSC** - OSC (Open Sound Control) interface via MIDI Remote Script
2. **Python Remote Scripts** - Native Python API for control surfaces
3. **Max for Live (M4L)** - Visual programming with Live API access
4. **Live Object Model (LOM)** - The underlying object hierarchy

Key Facts

- **Python Version**: Live 11 uses **Python 3** (Live 10 and earlier used Python 2.7)
- **AbletonOSC Ports**: Listens on port **11000**, sends replies on port **11001**
- **API Hierarchy**: Application → Song → Tracks → Clips/Devices → Parameters

---

Installation Paths & File Locations

Application Installation

Windows

```
C:\ProgramData\Ableton\Live 11.x.x\
├── Program\
│   └── Ableton Live 11 Suite.exe
├── Resources\
│   ├── MIDI Remote Scripts\
│   │   ├── _Framework\
│   │   ├── _Generic\
│   │   ├── _Tools\
│   │   ├── ableton\
│   │   │   └── v2\
│   │   ├── APC40\
│   │   ├── Push2\
│   │   └── [other control surfaces]\
│   ├── Core Library\
│   └── Python\
└── ...
```

macOS

```
/Applications/Ableton Live 11 Suite.app/
└── Contents/
    └── App-Resources/
        ├── MIDI Remote Scripts/
        │   ├── _Framework/
        │   ├── _Generic/
        │   ├── _Tools/
        │   ├── ableton/
        │   │   └── v2/
        │   └── [control surfaces]/
        ├── Core Library/
        └── Python/
```

User Data Locations

Windows

```
C:\Users\[username]\
├── Documents\
│   └── Ableton\
│       ├── User Library\
│       │   ├── Remote Scripts\         # Custom MIDI scripts (Live 10.1.13+)
│       │   ├── Presets\
│       │   ├── Samples\
│       │   ├── Templates\
│       │   ├── Clips\
│       │   ├── Defaults\
│       │   └── Grooves\
│       └── Factory Packs\
├── AppData\
│   └── Roaming\
│       └── Ableton\
│           └── Live 11.x.x\
│               └── Preferences\
│                   ├── Template.als
│                   ├── Options.txt
│                   └── Log.txt         # Debug/error log file
```

macOS

```
/Users/[username]/
├── Music/
│   └── Ableton/
│       ├── User Library/
│       │   ├── Remote Scripts/
│       │   ├── Presets/
│       │   ├── Samples/
│       │   ├── Templates/
│       │   ├── Clips/
│       │   ├── Defaults/
│       │   └── Grooves/
│       └── Factory Packs/
└── Library/
    ├── Preferences/
    │   └── Ableton/
    │       └── Live 11.x.x/
    │           ├── Log.txt
    │           └── Options.txt
    └── Application Support/
        └── Ableton/
```

Core Library Location

- **Windows**: `C:\ProgramData\Ableton\Live\Resources\Core Library`
- **macOS**: `/Applications/Ableton Live 11 Suite.app/Contents/App-Resources/Core Library`

Third-Party Remote Scripts Installation

As of Live 10.1.13+, place custom scripts in:

- **Windows**: `\Users\[username]\Documents\Ableton\User Library\Remote Scripts\`
- **macOS**: `/Users/[username]/Music/Ableton/User Library/Remote Scripts/`

Live Object Model (LOM) Architecture

The Live Object Model is a hierarchical structure representing all accessible parts of Live.

Root Objects

```
live_app          → Application object
live_set          → Current Song/Set
```

```
control_surfaces N    → Control surface at index N
this_device           → M4L device containing the path
```

Object Hierarchy

```
Application (live_app)
├── view
├── control_surfaces[]
└── document → Song

Song (live_set)
├── view
├── master_track
├── tracks[]
│   ├── view
│   ├── mixer_device
│   │   ├── volume
│   │   ├── panning
│   │   └── sends[]
│   ├── devices[]
│   │   ├── parameters[]
│   │   └── view
│   ├── clip_slots[]
│   │   └── clip
│   │       ├── view
│   │       └── notes (MIDI clips)
│   └── arrangement_clips[]
├── return_tracks[]
├── scenes[]
├── cue_points[]
├── visible_tracks[]
└── groove_pool
```

Core LOM Classes

Application

```python
```

```
class Application:
    # Properties
    browser                    # Browser object
    control_surfaces           # List of control surfaces
    current_dialog_button_count  # int
    current_dialog_message       # str
    view                       # Application.View

    # Methods
    get_bugfix_version()       # Returns: int (e.g., 2 in 11.0.2)
    get_document()             # Returns: Song
    get_major_version()        # Returns: int (e.g., 11)
    get_minor_version()        # Returns: int (e.g., 0)
    press_current_dialog_button(index)
```

Song

python

```
class Song:
    # Transport Properties
    is_playing                  # bool
    current_song_time           # float (beats)
    tempo                       # float (BPM, 20-999)
    signature_numerator         # int
    signature_denominator       # int

    # Loop Properties
    loop                        # bool
    loop_start                  # float (beats)
    loop_length                 # float (beats)

    # Record Properties
    record_mode                 # bool
    session_record              # bool
    arrangement_overdub         # bool
    punch_in                    # bool
    punch_out                   # bool
    metronome                   # bool

    # Track Collections
    tracks                      # list of Track
    return_tracks               # list of Track
    master_track                # Track
    visible_tracks              # list of Track
    scenes                      # list of Scene

    # Quantization
    clip_trigger_quantization   # int (0=None, 1=8bars...14=1/32)
    midi_recording_quantization # int

    # Methods
    start_playing()
    stop_playing()
    continue_playing()
    stop_all_clips()
    tap_tempo()
    trigger_session_record()
    undo()
    redo()
    capture_midi()
    create_audio_track(index)
```

```
create_midi_track(index)
create_return_track()
create_scene(index)
delete_track(index)
delete_return_track(index)
delete_scene(index)
duplicate_track(index)
duplicate_scene(index)
jump_by(beats)
jump_to_next_cue()
jump_to_prev_cue()
```

Track

python

```
class Track:
    # Identity
    name                    # str
    color                   # int (RGB)
    color_index             # int (0-69)

    # Mixer
    volume                  # via mixer_device
    panning                 # via mixer_device

    # States
    arm                     # bool (record arm)
    mute                    # bool
    solo                    # bool
    current_monitoring_state    # int (0=In, 1=Auto, 2=Off)

    # Routing
    available_input_routing_channels
    available_input_routing_types
    available_output_routing_channels
    available_output_routing_types
    input_routing_channel
    input_routing_type
    output_routing_channel
    output_routing_type

    # Structure
    can_be_armed            # bool
    has_audio_input         # bool
    has_audio_output        # bool
    has_midi_input          # bool
    has_midi_output         # bool
    is_foldable             # bool (is group track)
    is_grouped              # bool
    is_visible              # bool
    fold_state              # bool (group folded)

    # Children
    clip_slots              # list of ClipSlot
    devices                 # list of Device
    mixer_device            # MixerDevice
    arrangement_clips       # list of Clip
```

```
    # Playback
    playing_slot_index          # int (-2=stop, -1=none, 0+=slot)
    fired_slot_index            # int

    # Meters
    output_meter_left           # float (0.0-1.0)
    output_meter_right          # float (0.0-1.0)
    output_meter_level          # float (0.0-1.0)

    # Methods
    stop_all_clips()
```

ClipSlot

python

```
class ClipSlot:
    # Properties
    has_clip                    # bool
    clip                        # Clip or None
    has_stop_button             # bool
    is_playing                  # bool
    is_recording                # bool
    is_triggered                # bool

    # Methods
    fire()
    stop()
    create_clip(length)         # Creates empty MIDI clip
    delete_clip()
    duplicate_clip_to(target_slot)
```

Clip

python

```
class Clip:
    # Identity
    name                    # str
    color                   # int
    color_index             # int

    # Type
    is_audio_clip           # bool
    is_midi_clip            # bool

    # Playback
    is_playing              # bool
    is_recording            # bool
    is_overdubbing          # bool
    is_triggered            # bool
    playing_position        # float (beats)
    will_record_on_start    # bool

    # Length/Position
    length                  # float (beats)
    start_time              # float (arrangement position)
    end_time                # float
    loop_start              # float
    loop_end                # float
    start_marker            # float
    end_marker              # float
    position                # float (loop start alias)

    # Audio Properties
    gain                    # float (0.0-1.0)
    pitch_coarse            # int (semitones, -48 to +48)
    pitch_fine              # float (cents, -50 to +50)
    warping                 # bool
    warp_mode               # int (0=Beats,1=Tones,2=Texture,3=Re-Pitch,4=Complex,6=Pro)
    sample_length           # float (for audio clips)
    file_path               # str (for audio clips)

    # MIDI Properties
    muted                   # bool

    # Launch
    launch_mode             # int (0=Trigger,1=Gate,2=Toggle,3=Repeat)
    launch_quantization     # int (0=Global,1=None,2=8Bars...14=1/32)
```

```
legato                  # bool
velocity_amount           # float (0.0-1.0)
ram_mode                # bool (load into RAM)
has_groove              # bool

# Methods
fire()
stop()
duplicate_loop()

# MIDI Note Methods (MIDI clips only)
get_notes(start_time, time_span, start_pitch, pitch_span)
get_notes_extended(from_time, time_span, from_pitch, pitch_span)
set_notes(notes_tuple)
add_new_notes(notes_tuple)
replace_selected_notes(notes_tuple)
remove_notes(start_time, time_span, start_pitch, pitch_span)
remove_notes_extended(from_time, time_span, from_pitch, pitch_span)
select_all_notes()
deselect_all_notes()
get_selected_notes()

# Audio Warp Methods
add_warp_marker(beat_time, sample_time)
remove_warp_marker(beat_time)
move_warp_marker(beat_time, new_beat_time)
```

Device

python

```python
class Device:
    # Identity
    name                    # str
    class_name              # str (e.g., "Operator", "Reverb", "PluginDevice")
    type                    # DeviceType (1=audio_effect, 2=instrument, 4=midi_effect)

    # State
    is_active               # bool

    # Parameters
    parameters              # list of DeviceParameter

    # Methods
    store_chosen_bank(bank_index, parameter_indices)
```

DeviceParameter

python

```python
class DeviceParameter:
    # Identity
    name                    # str
    original_name           # str

    # Value
    value                   # float
    default_value           # float
    min                     # float
    max                     # float

    # Type
    is_enabled              # bool
    is_quantized            # bool (discrete values only)
    value_items             # list of str (for quantized params)

    # Automation
    automation_state        # AutomationState
    state                   # ParameterState
```

Scene

python

```
class Scene:
    # Identity
    name                    # str
    color                   # int
    color_index             # int

    # State
    is_empty                # bool
    is_triggered            # bool

    # Tempo
    tempo                   # float
    tempo_enabled           # bool

    # Time Signature
    time_signature_numerator    # int
    time_signature_denominator  # int
    time_signature_enabled      # bool

    # Children
    clip_slots              # list of ClipSlot

    # Methods
    fire()
    fire_as_selected()
    set_fire_button_state(state)
```

AbletonOSC API Reference

AbletonOSC is the recommended way to control Live 11 via OSC. Install by copying the `AbletonOSC` folder to your Remote Scripts directory.

Connection Settings

- **Listen Port**: 11000
- **Reply Port**: 11001
- **Protocol**: UDP

Application API

Address	Params	Response	Description
/live/test		'ok'	Test connection
/live/application/get/version		major, minor	Get Live version
/live/api/reload			Reload AbletonOSC
/live/api/get/log_level		level	Get log level
/live/api/set/log_level	level		Set log level (debug/info/warning/error/critical)
/live/api/show_message	message		Show message in status bar

Song API

Transport Methods

Address	Params	Description
/live/song/start_playing		Start playback
/live/song/stop_playing		Stop playback
/live/song/continue_playing		Resume playback
/live/song/stop_all_clips		Stop all clips
/live/song/tap_tempo		Tap tempo
/live/song/trigger_session_record		Toggle session record
/live/song/undo		Undo
/live/song/redo		Redo
/live/song/capture_midi		Capture MIDI
/live/song/jump_by	beats	Jump by beats
/live/song/jump_to_next_cue		Next cue point
/live/song/jump_to_prev_cue		Previous cue point

Track/Scene Creation

Address	Params	Description
/live/song/create_audio_track	index	Create audio track (-1=end)
/live/song/create_midi_track	index	Create MIDI track (-1=end)
/live/song/create_return_track		Create return track
/live/song/create_scene	index	Create scene (-1=end)
/live/song/delete_track	index	Delete track
/live/song/delete_return_track	index	Delete return track
/live/song/delete_scene	index	Delete scene
/live/song/duplicate_track	index	Duplicate track
/live/song/duplicate_scene	index	Duplicate scene

Song Properties (Get/Set)

Property	Type	Description
tempo	float	BPM (20-999)
metronome	bool	Metronome on/off
is_playing	bool	Playing state
current_song_time	float	Position in beats
loop	bool	Loop enabled
loop_start	float	Loop start (beats)
loop_length	float	Loop length (beats)
record_mode	bool	Record mode
session_record	bool	Session record
arrangement_overdub	bool	Arrangement overdub
punch_in	bool	Punch in
punch_out	bool	Punch out
signature_numerator	int	Time sig numerator
signature_denominator	int	Time sig denominator
clip_trigger_quantization	int	Clip trigger quantize
midi_recording_quantization	int	MIDI record quantize
groove_amount	float	Global groove amount
root_note	int	Root note
scale_name	str	Scale name

Usage: /live/song/get/tempo, /live/song/set/tempo 120.0

Bulk Data Query

```
/live/song/get/track_data 0 12 track.name clip.name clip.length
```

Returns: `[track_0_name, clip_0_0_name, clip_0_0_length, clip_0_1_name, ...]`

Track API

Track Properties (Get/Set)

Property	Type	Description
`name`	str	Track name
`color`	int	RGB color
`color_index`	int	Color index (0-69)
`arm`	bool	Record arm
`mute`	bool	Mute
`solo`	bool	Solo
`volume`	float	Volume (0.0-1.0)
`panning`	float	Pan (-1.0 to 1.0)
`send`	float	Send level (needs send_id)
`current_monitoring_state`	int	0=In, 1=Auto, 2=Off
`fold_state`	bool	Group folded
`playing_slot_index`	int	Currently playing slot
`fired_slot_index`	int	Triggered slot

Usage: `/live/track/get/volume 0` → returns `0, 0.85`

Track Routing

Property	Description
available_input_routing_channels	List input channels
available_input_routing_types	List input types
available_output_routing_channels	List output channels
available_output_routing_types	List output types
input_routing_channel	Current input channel
input_routing_type	Current input type
output_routing_channel	Current output channel
output_routing_type	Current output type

Track Methods

Address	Params	Description
/live/track/stop_all_clips	track_id	Stop all clips on track

Clip Slot API

Address	Params	Description
/live/clip_slot/fire	track_id, slot_id	Fire clip slot
/live/clip_slot/create_clip	track_id, slot_id, length	Create empty MIDI clip
/live/clip_slot/delete_clip	track_id, slot_id	Delete clip
/live/clip_slot/get/has_clip	track_id, slot_id	Check if slot has clip
/live/clip_slot/get/has_stop_button	track_id, slot_id	Check stop button
/live/clip_slot/set/has_stop_button	track_id, slot_id, state	Set stop button
/live/clip_slot/duplicate_clip_to	t_id, s_id, target_t, target_s	Duplicate clip

Clip API

Clip Control

Address	Params	Description
/live/clip/fire	track_id, clip_id	Fire clip
/live/clip/stop	track_id, clip_id	Stop clip
/live/clip/duplicate_loop	track_id, clip_id	Duplicate loop

Clip Properties (Get/Set)

Property	Type	Description
name	str	Clip name
color	int	RGB color
color_index	int	Color index (0-69)
gain	float	Clip gain
pitch_coarse	int	Semitones (-48 to +48)
pitch_fine	float	Cents (-50 to +50)
loop_start	float	Loop start (beats)
loop_end	float	Loop end (beats)
start_marker	float	Start marker
end_marker	float	End marker
position	float	Loop position
warping	bool	Warp enabled
warp_mode	int	0=Beats,1=Tones,2=Texture,3=Re-Pitch,4=Complex,6=Pro
launch_mode	int	0=Trigger,1=Gate,2=Toggle,3=Repeat
launch_quantization	int	0=Global,1=None,2=8Bars...14=1/32
muted	bool	Clip muted
legato	bool	Legato mode
velocity_amount	float	Velocity amount (0.0-1.0)
ram_mode	bool	Load to RAM

Clip Read-Only Properties

Property	Description
length	Clip length in beats
sample_length	Audio sample length
start_time	Arrangement start time
file_path	Audio file path
is_audio_clip	Is audio clip
is_midi_clip	Is MIDI clip
is_playing	Is playing
is_recording	Is recording
is_overdubbing	Is overdubbing
playing_position	Current play position
has_groove	Has groove

MIDI Note Operations

```
# Get notes
/live/clip/get/notes track_id clip_id [start_pitch pitch_span start_time time_span]
→ Returns: track_id, clip_id, pitch, start_time, duration, velocity, mute, ...

# Add notes
/live/clip/add/notes track_id clip_id pitch start_time duration velocity mute ...

# Remove notes
/live/clip/remove/notes track_id clip_id [start_pitch pitch_span start_time time_span]
```

Listening to Playing Position

```
/live/clip/start_listen/playing_position track_id clip_id
→ Continuously sends: /live/clip/get/playing_position track_id clip_id position

/live/clip/stop_listen/playing_position track_id clip_id
```

Scene API

Scene Methods

Address	Params	Description
/live/scene/fire	scene_id	Fire scene
/live/scene/fire_as_selected	scene_id	Fire and select next
/live/scene/fire_selected		Fire selected scene

Scene Properties

Property	Type	Description
name	str	Scene name
color	int	RGB color
color_index	int	Color index
tempo	float	Scene tempo
tempo_enabled	bool	Tempo enabled
time_signature_numerator	int	Time sig numerator
time_signature_denominator	int	Time sig denominator
time_signature_enabled	bool	Time sig enabled
is_empty	bool	Scene is empty
is_triggered	bool	Scene triggered

Device API

Address	Params	Response	Description
/live/device/get/name	t_id, d_id	t_id, d_id, name	Device name
/live/device/get/class_name	t_id, d_id	t_id, d_id, class	Device class

Address	Params	Response	Description
/live/device/get/type	t_id, d_id	t_id, d_id, type	1=audio_effect, 2=instrument, 4=midi_effect
/live/device/get/num_parameters	t_id, d_id	t_id, d_id, count	Parameter count
/live/device/get/parameters/name	t_id, d_id	t_id, d_id, names...	All param names
/live/device/get/parameters/value	t_id, d_id	t_id, d_id, values...	All param values
/live/device/get/parameters/min	t_id, d_id	t_id, d_id, mins...	All param minimums
/live/device/get/parameters/max	t_id, d_id	t_id, d_id, maxs...	All param maximums
/live/device/set/parameters/value	t_id, d_id, vals...		Set all params
/live/device/get/parameter/value	t_id, d_id, p_id	t_id, d_id, p_id, val	Single param value
/live/device/set/parameter/value	t_id, d_id, p_id, val		Set single param
/live/device/get/parameter/value_string	t_id, d_id, p_id	t_id, d_id, p_id, str	Formatted value

View API

Address	Params	Response	Description
/live/view/get/selected_track		track_id	Selected track
/live/view/set/selected_track	track_id		Select track
/live/view/get/selected_scene		scene_id	Selected scene
/live/view/set/selected_scene	scene_id		Select scene
/live/view/get/selected_clip		track_id, scene_id	Selected clip

Address	Params	Response	Description
/live/view/set/selected_clip	track_id, scene_id		Select clip
/live/view/get/selected_device		track_id, device_id	Selected device
/live/view/set/selected_device	track_id, device_id		Select device

MIDI Map API

Address	Params	Description
/live/midimap/map_cc	track_id, device_id, param_id, channel, cc	Map CC to parameter

Note: MIDI channels are zero-indexed (channel 1 = index 0)

Listener Pattern

For any property, you can listen for changes:

```
/live/[object]/start_listen/[property] [ids...]
→ Sends updates to: /live/[object]/get/[property]

/live/[object]/stop_listen/[property] [ids...]
```

Example:

```
/live/song/start_listen/tempo
→ Whenever tempo changes, receives: /live/song/get/tempo 120.0

/live/song/start_listen/beat
→ On each beat, receives: /live/song/get/beat beat_number
```

Python Remote Scripts API

Script Structure

A minimal Remote Script requires:

```
YourScript/
├── __init__.py
└── YourScript.py
```

__init__.py

```python
from .YourScript import YourScript

def create_instance(c_instance):
    return YourScript(c_instance)
```

YourScript.py (using _Framework)

```python
```

```
from _Framework.ControlSurface import ControlSurface
from _Framework.TransportComponent import TransportComponent
from _Framework.ButtonElement import ButtonElement
from _Framework.EncoderElement import EncoderElement

# MIDI Types
MIDI_NOTE_TYPE = 0
MIDI_CC_TYPE = 1

class YourScript(ControlSurface):
    def __init__(self, c_instance):
        ControlSurface.__init__(self, c_instance)
        with self.component_guard():
            self._setup_transport()
            self._setup_mixer()

    def _setup_transport(self):
        transport = TransportComponent()
        # ButtonElement(is_momentary, msg_type, channel, identifier)
        transport.set_play_button(ButtonElement(True, MIDI_NOTE_TYPE, 0, 60))
        transport.set_stop_button(ButtonElement(True, MIDI_NOTE_TYPE, 0, 61))
        transport.set_record_button(ButtonElement(True, MIDI_NOTE_TYPE, 0, 62))

    def song(self):
        return self._c_instance.song()

    def log_message(self, message):
        # Writes to Live's Log.txt
        ControlSurface.log_message(self, message)

    def disconnect(self):
        ControlSurface.disconnect(self)
```

Live Module Access

python

```python
import Live

# Access application
app = Live.Application.get_application()
version = app.get_major_version()

# Access song (from within ControlSurface)
song = self.song()
tempo = song.tempo
song.tempo = 120.0

# Access tracks
for track in song.tracks:
    print(track.name)
    track.mute = False

# Access clips
track = song.tracks[0]
clip_slot = track.clip_slots[0]
if clip_slot.has_clip:
    clip = clip_slot.clip
    clip.fire()

# Access devices
for device in track.devices:
    print(f"{device.name}: {device.class_name}")
    for param in device.parameters:
        print(f"  {param.name}: {param.value}")
```

Listener Pattern (Python)

```python
```

```
def setup_listeners(self):
    self.song().add_tempo_listener(self._on_tempo_changed)
    self.song().add_is_playing_listener(self._on_playing_changed)

def _on_tempo_changed(self):
    self.log_message(f"Tempo changed to {self.song().tempo}")

def _on_playing_changed(self):
    if self.song().is_playing:
        self.log_message("Playback started")

def disconnect(self):
    self.song().remove_tempo_listener(self._on_tempo_changed)
    self.song().remove_is_playing_listener(self._on_playing_changed)
    ControlSurface.disconnect(self)
```

Framework Classes

The `_Framework` folder contains utility classes for building control surfaces:

Core Classes

Class	Purpose
`ControlSurface`	Base class for all scripts
`ControlSurfaceComponent`	Base for components
`ControlElement`	Base for MIDI elements
`ButtonElement`	MIDI note/CC button
`EncoderElement`	Rotary encoder
`SliderElement`	Fader/slider
`ButtonMatrixElement`	Grid of buttons

Components

Class	Purpose
`TransportComponent`	Play/stop/record controls
`MixerComponent`	Volume/pan/sends
`SessionComponent`	Clip launching grid
`DeviceComponent`	Device parameter control
`ChannelStripComponent`	Single channel strip
`ClipSlotComponent`	Single clip slot

Modern v2 Classes (Live 10+)

Located in `ableton/v2/`:

```
ableton/
└── v2/
    ├── control_surface/
    │   ├── control_surface.py
    │   ├── component.py
    │   └── elements.py
    └── base/
        └── ...
```

File Types & Extensions

Extension	Description
`.als`	Ableton Live Set (project file)
`.alc`	Ableton Live Clip
`.adg`	Ableton Device Group (rack preset)
`.adv`	Ableton Device Preset
`.agr`	Ableton Groove

Extension	Description
.asd	Ableton Sample Analysis Data
.ask	Ableton Skin (UI theme)
.ams	Ableton Modulation Set (Operator)
.amxd	Max for Live Device
.alp	Ableton Live Pack
.py	Python source (Remote Scripts)
.pyc	Python compiled bytecode

Resources & Documentation Links

Official Documentation

- Live Object Model (Cycling '74)
- Live API Overview
- Installing Remote Scripts

API Documentation

- Live 11.0 Python API XML
- NSUSpray Live API Docs
- Structure Void MIDI Remote Scripts

AbletonOSC

- AbletonOSC GitHub
- PyLive (Python client)

Decompiled Scripts

- Live 11 Remote Scripts (cylab)
- Live 10.1 Remote Scripts

Tutorials

- Framework Classes Introduction
- Remote Scripts Blog

Tools

- Control Surface Studio - Visual script builder
- MIDI Monitor (macOS)

Quick Reference: Common Operations

Start/Stop Playback (OSC)

```
/live/song/start_playing
/live/song/stop_playing
/live/song/continue_playing
```

Fire Clip (OSC)

```
/live/clip/fire 0 0      # Track 0, Clip 0
```

Change Tempo (OSC)

```
/live/song/set/tempo 128.0
```

Get All Track Names (OSC)

```
/live/song/get/track_names
```

Arm Track for Recording (OSC)

```
/live/track/set/arm 0 1   # Track 0, armed
```

Set Device Parameter (OSC)

```
/live/device/set/parameter/value 0 0 1 0.5  # Track 0, Device 0, Param 1, Value 0.5
```

Create MIDI Clip (OSC)

```
/live/clip_slot/create_clip 0 0 4.0  # Track 0, Slot 0, 4 beats long
```

Add MIDI Notes (OSC)

```
/live/clip/add/notes 0 0 60 0.0 0.5 100 0  # C4 at beat 0, 0.5 beat duration, velocity 100
```

Document compiled for JarvisAbleton AI Assistant Last updated: January 2026