

```
cLib:
-----
cBitmap.lua:31:function cBitmap:__init(...)
cBitmap.lua:62:function cBitmap:flood(color)
cBitmap.lua:78:function cBitmap.split_bits(num, endian)
cBitmap.lua:102:function cBitmap:get_bytes_padding()
cBitmap.lua:109:function cBitmap:get_bitmap_size_in_bytes()
cBitmap.lua:117:function cBitmap:get_total_size_in_bytes()
cBitmap.lua:125:function cBitmap:create()
cBitmap.lua:224:function cBitmap:save_bmp(file_path)
cColor.lua:18:function cColor.adjust_brightness(rgb, amt)
cColor.lua:41:function cColor.get_average(color)
cColor.lua:50:function cColor.color_table_to_value(t)
cColor.lua:60:function cColor.color_table_to_hex_string(t, prefix)
cColor.lua:72:function cColor.value_to_color_table(val)
cColor.lua:85:function cColor.value_to_hex_string(val, prefix)
cColor.lua:97:function cColor.hex_string_to_value(str_val)
cColor.lua:122:function cColor.rgb_to_hsv(rgb)
cColor.lua:152:function cColor.hsv_to_rgb(hsv)
cConfig.lua:26:function cConfig.load_config()
cConfig.lua:37:function cConfig.get_value(xpath)
cDebug.lua:31:function cDebug.serialize(obj)
cDebug.lua:42:function cDebug.concat_args(...)
cDebug.lua:66:function cDebug.rdump(t, indent, done)
cDebug.lua:92:function cDebug.remove_trace_statements()
cDocument.lua:51:function cDocument:import(str)
cDocument.lua:65:function cDocument:export()
cDocument.lua:78:function cDocument.serialize(obj, props)
cDocument.lua:101:function cDocument.deserialize(str, props)
cDocument.lua:132:function cDocument.get_property(props, key)
cDocument.lua:151:function cDocument.apply_value(obj, prop, val)
cFilesystem.lua:24:function cFilesystem.get_userdata_folder()
cFilesystem.lua:48:function cFilesystem.get_resource_folder()
cFilesystem.lua:77:function cFilesystem.get_path_parts(file_path)
cFilesystem.lua:103:function cFilesystem.get_raw_filename(file_path)
cFilesystem.lua:127:function cFilesystem.is_root_folder(str)
cFilesystem.lua:151:function cFilesystem.get_parent_directory(file_path)
cFilesystem.lua:174:function cFilesystem.copy_folder(src_path, dest_path, file_ext, level)
cFilesystem.lua:208:function cFilesystem.ensure_unique_filename(file_path)
cFilesystem.lua:240:function cFilesystem.get_directories(file_path)
cFilesystem.lua:269:function cFilesystem.mkdir(file_path)
cFilesystem.lua:308:function cFilesystem.rename(old_f, new_f)
cFilesystem.lua:326:function cFilesystem.rmdir(folder_path)
cFilesystem.lua:359:function cFilesystem.validate_filename(file_path)
cFilesystem.lua:382:function cFilesystem.unixslashes(file_path)
cFilesystem.lua:395:function cFilesystem.sanitize_filename(file_path)
cFilesystem.lua:411:function cFilesystem.file_add_extension(file_path, extension)
cFilesystem.lua:433:function cFilesystem.file_strip_extension(file_path, extension)
cFilesystem.lua:454:function cFilesystem.assert_string(str, str_name)
cFilesystem.lua:465:function cFilesystem.load_string(file_path)
cFilesystem.lua:497:function cFilesystem.list_files(str_path, file_ext, include_path)
cFilesystem.lua:531:function cFilesystem.write_string_to_file(file_path, str)
cFilesystem.lua:563:function cFilesystem.copy_file(file_in, file_out)
cFilesystem.lua:600:function cFilesystem.recurse(str_path, callback_fn, file_ext, level)
cLib.lua:36:function LOG(...)
cLib.lua:45:function TRACE(...)
cLib.lua:53:function cLib.log(...)
cLib.lua:76:function cLib.require(file)
cLib.lua:104:function cLib.unpack_args(...)
cLib.lua:117:function cLib.pack_args(...)
cLib.lua:127:function cLib.invoke_task(...)
cLib.lua:137:function cLib.create_cvalue(t)
cLib.lua:159:function cLib.scale_value(value, in_min, in_max, out_min, out_max)
cLib.lua:168:function cLib.string_to_percentage(str)
cLib.lua:178:function cLib.average(...)
cLib.lua:193:function cLib.clamp_value(value, min_value, max_value)
cLib.lua:202:function cLib.wrap_value(value, min_value, max_value)
cLib.lua:218:function cLib.sign(x)
cLib.lua:225:function cLib.inv_log_scale(ceiling, val)
```

cLib.lua:234:function cLib.log_scale(ceiling, val)
cLib.lua:241:function cLib.is_whole_number(n)
cLib.lua:248:function cLib.note_to_hz(note, hz_ini)
cLib.lua:254:function cLib.hz_to_note(freq, hz_ini)
cLib.lua:264:function cLib.note_to_frames(note, sample_rate, hz_ini)
cLib.lua:278:function cLib.gcd(m, n)
cLib.lua:290:function cLib.lcm(m, n)
cLib.lua:298:function cLib.least_common(t)
cLib.lua:310:function cLib.round_value(num)
cLib.lua:320:function cLib.round_with_precision(num, idp)
cLib.lua:332:function cLib.float_compare(val1, val2, precision)
cLib.lua:343:function cLib.fraction(val)
cLib.lua:352:function cLib.get_hex_digits(val)
cLib.lua:364:function cLib.stringify_table(t, prefix, suffix)
cLib.lua:380:function cLib.parse_str(str)
cLib.lua:400:function cLib.table_has_equal_values(t)
cLib.lua:419:function cLib.table_compare(t1, t2)
cLib.lua:427:function cLib.table_count(t)
cLib.lua:445:function cLib.serialize_object(obj)
cLib.lua:464:function cLib.serialize_table(t, max_depth, longstring)
cNumber.lua:28:function cNumber:__init(...)
cNumber.lua:72:function cNumber:add(val)
cNumber.lua:76:function cNumber:subtract(val)
cNumber.lua:80:function cNumber:multiply(val)
cNumber.lua:84:function cNumber:divide(val)
cNumber.lua:90:function cNumber:set_value(val)
cNumber.lua:98:function cNumber:__add(val)
cNumber.lua:103:function cNumber:__sub(val)
cNumber.lua:108:function cNumber:__mul(val)
cNumber.lua:113:function cNumber:__div(val)
cObservable.lua:146:function cObservable.set_mode(mode)
cObservable.lua:166:function cObservable.get_by_type(str_type, array)
cObservable.lua:201:function cObservable.get_by_type_and_name(str_type, str_obs, str_prefix)
cObservable.lua:239:function cObservable.get_keys_by_type(str_type, prefix, arr)
cObservable.lua:278:function cObservable.detach(obs, arg1, arg2)
cObservable.lua:322:function cObservable.attach(obs, arg1, arg2)
cObservable.lua:355:function cObservable.retrieve_observable(obs)
cObservable.lua:371:function cObservable.list_remove(obs, val)
cObservable.lua:386:function cObservable.list_add(obs, val)
cObservable.lua:405:function cObservable.get_song_names(prefix)
cParseXML.lua:24:function cParseXML.load_and_parse(file_path)
cParseXML.lua:36:function cParseXML.parse(str_xml)
cParseXML.lua:49:function cParseXML.get_attribute(doc, attr_name)
cParseXML.lua:70:function cParseXML.get_node_by_path(doc, xpath)
cParseXML.lua:86:function cParseXML.get_node_value(node)
cPersistence.lua:48:function cPersistence.load(file_path)
cPersistence.lua:80:function cPersistence.save(file_path)
cPersistence.lua:97:function cPersistence.serialize()
cPersistence.lua:110:function cPersistence.assign_definition(def, _ref, _prop_names)
cPersistence.lua:178:function cPersistence.looks_like_definition(str_def)
cPersistence.lua:200:function cPersistence.obtain_definition()
cPersistence.lua:220:function cPersistence.obtain_property_definition(prop, prop_name)
cPersistence.lua:269:function cPersistence.get_persisted_type(def)
cPersistence.lua:280:function cPersistence.determine_type(fpath)
cPreferences.lua:35:function cPreferences:__init(...)
cPreferences.lua:109:function cPreferences.get_selected_profile()
cPreferences.lua:115:function cPreferences.get_profiles_enabled()
cPreferences.lua:119:function cPreferences.set_profiles_enabled(val)
cPreferences.lua:126:function cPreferences.get_always_choose()
cPreferences.lua:130:function cPreferences.set_always_choose(val)
cPreferences.lua:137:function cPreferences.get_recall_profile()
cPreferences.lua:141:function cPreferences.set_recall_profile(val)
cPreferences.lua:148:function cPreferences.get_active_instances()
cPreferences.lua:161:function cPreferences.get_profile_names()
cPreferences.lua:177:function cPreferences.scan_profiles()
cPreferences.lua:214:function cPreferences.get_profile_by_name(str_name)
cPreferences.lua:226:function cPreferences.attempt_launch()
cPreferences.lua:245:function cPreferences.close_dialog()
cPreferences.lua:256:function cPreferences.launch_profile(idx)

```
cPreferences.lua:293:function cPreferences:remove_profile(idx)
cPreferences.lua:318:function cPreferences:add_profile(str_name)
cPreferences.lua:344:function cPreferences:rename_profile(idx, str_name)
cPreferences.lua:371:function cPreferences:update_profile()
cPreferences.lua:391:function cPreferences:show_dialog()
cPreferences.lua:404:function cPreferences:rebuild_and_show()
cPreferences.lua:415:function cPreferences:build_dialog()
cPreferences.lua:625:function cPreferences:load_settings()
cPreferences.lua:646:function cPreferences:save_settings()
cProcessSlicer.lua:57:function ProcessSlicer:__init(process_func, ...)
cProcessSlicer.lua:70:function ProcessSlicer:running()
cProcessSlicer.lua:78:function ProcessSlicer:start()
cProcessSlicer.lua:91:function ProcessSlicer:stop()
cProcessSlicer.lua:105:function ProcessSlicer:__on_idle()
cReflection.lua:24:function cReflection.copy_object_properties(from_class, to_class, level)
cReflection.lua:63:function cReflection.as_boolean(val, fallback)
cReflection.lua:74:function cReflection.cast_value(val, val_type)
cReflection.lua:111:function cReflection.get_object_properties(class, _level)
cReflection.lua:139:function cReflection.get_object_info(class)
cReflection.lua:159:function cReflection.is_standard_type(val)
cReflection.lua:178:function cReflection.is_serializable_type(val)
cReflection.lua:195:function cReflection.set_property(str, value)
cReflection.lua:217:function cReflection.evaluate_string(x)
cReflection.lua:233:function cReflection.is_valid_identifier(str)
cSandbox.lua:71:function cSandbox:__init()
cSandbox.lua:157:function cSandbox:get_callback_str()
cSandbox.lua:165:function cSandbox:set_callback_str(str_fn)
cSandbox.lua:194:function cSandbox:get_properties()
cSandbox.lua:198:function cSandbox:set_properties(val)
cSandbox.lua:210:function cSandbox:prepare_callback(str_fn)
cSandbox.lua:231:function cSandbox:compile()
cSandbox.lua:252:function cSandbox.contains_comment_blocks(str)
cSandbox.lua:273:function cSandbox:test_syntax(str_fn)
cSandbox.lua:294:function cSandbox.strip_comments(str_fn)
cSandbox.lua:313:function cSandbox.contains_code(str_fn)
cSandbox.lua:324:function cSandbox.insert_return(str_fn)
cSandbox.lua:360:function cSandbox.rename_string_token(str_fn, old_name, new_name, prefix)
cScheduler.lua:27:function cScheduler:__init()
cScheduler.lua:39:function cScheduler:on_idle()
cScheduler.lua:59:function cScheduler:add_task(ref, func, delay, ...)
cScheduler.lua:81:function cScheduler:remove_task(ref)
cScheduler.lua:108:function cScheduler:_execute_task(task)
cScheduler.lua:133:function cScheduledTask:__init(ref, func, delay, args)
cScheduler.lua:144:function cScheduledTask:__eq(other)
cString.lua:21:function cString.split(str, pat)
cString.lua:49:function cString.trim(s)
cString.lua:58:function cString.capitalize(s)
cString.lua:68:function cString.soft_wrap(str)
cString.lua:78:function cString.detect_counter_in_str(str)
cString.lua:94:function cString.sanitize_string(str)
cString.lua:104:function cString.get_sortable_time(tstamp)
cString.lua:129:function cString.format_beat(val)
cString.lua:145:function cString.strip_line(str, patt)
cString.lua:171:function cString.strip_leading_trailing_chars(str, chr, rlead, rtrail)
cString.lua:198:function cString.table_to_string(t, args)
cTable.lua:20:function cTable.values(t)
cTable.lua:34:function cTable.last(t)
cTable.lua:46:function cTable.merge(t1, t2)
cTable.lua:66:function cTable.compact(t)
cTable.lua:90:function cTable.compare(t1, t2)
cTable.lua:100:function cTable.match_key(t, key)
cTable.lua:116:function cTable.nearest(t, val)
cTable.lua:155:function cTable.next(t, val)
cTable.lua:171:function cTable.previous(t, val)
cTable.lua:191:function cTable.expand(t, k1, k2, k3, k4)
cTable.lua:209:function cTable.bounds(t)
cTable.lua:227:function cTable.is_indexed(t)
cValue.lua:19:function cValue:__init(...)
cValue.lua:49:function cValue:get_value()
```

```
cValue.lua:53:function cValue:set_value(val)
cValue.lua:71:function cValue:__call(key)
cValue.lua:86:function cValue:__len()
cWaveform.lua:37:function cWaveform.sin_2pi_fn(x)
cWaveform.lua:41:function cWaveform.cos_fn(x)
cWaveform.lua:45:function cWaveform.saw_fn(x)
cWaveform.lua:49:function cWaveform.square_fn(x)
cWaveform.lua:59:function cWaveform.triangle_fn(x)
cWaveform.lua:72:function cWaveform.white_noise_fn()
cWaveform.lua:78:function cWaveform.brown_noise_fn()
cWaveform.lua:91:function cWaveform.violet_noise_fn()
cWaveform.lua:99:function cWaveform.pink_noise_fn()
cWaveform.lua:119:function cWaveform.biased_noise()
cWaveform.lua:130:function cWaveform.mix_fn_fn(fn1,fn2,deg)
cWaveform.lua:142:function cWaveform.band_limited_fn_fn(
cWaveform.lua:210:function cWaveform.mod_fn_fn(cycle,shift,duty_onoff,duty,duty_var,duty_var_frq)
cWaveform.lua:223:function cWaveform.wave_fn(
cWaveform.lua:271:function cWaveform.cycle_phase_duty_mod (cycle,shift,duty_fiducal,duty_var,duty_var_frq)
cWaveform.lua:285:function cWaveform._torf(x)
cWaveform.lua:293:function cWaveform.rndm(tbl)
cWaveform.lua:304:function cWaveform.rtn_random_wave(wv)
cWaveform.lua:329:function cWaveform.random_fn(wv,a,duty_off,range)
cWaveform.lua:369:function cWaveform.random_copy_fn(range)
cWaveform.lua:399:function cWaveform.table2fn(wave_tbl)
cWaveform.lua:443:function cWaveform.random_wave(range)
cWaveform.lua:468:function cWaveform._duty_shape(duty,m)
cWaveform.lua:481:function cWaveform._duty_phase(x,dt)
cWaveform.lua:494:function cWaveform._max_even(num)
cWaveform.lua:506:function cWaveform.cycle_fmod(x,m)
cWaveform.lua:515:function cWaveform.cycle_phase_mod(cycl,phs)
cWaveform.lua:526:function cWaveform._sinc_m_fn_fn(m)
cWaveform.lua:541:function cWaveform.blit_m_p_tbl(m,p,range)
cWaveform.lua:554:function cWaveform._blit_saw_tbl(p,shift,a,range)
cWaveform.lua:600:function cWaveform._blit_square_tbl(p,shift,a,range)
cWaveform.lua:634:function cWaveform._blit_triangle_tbl(p,shift,a,range)
cWaveform.lua:676:function cWaveform._blit_duty_fn_fn(form,p,duty,range)
```

vLib:

```
vArrowButton.lua:33:function vArrowButton:__init(...)
vArrowButton.lua:63:function vArrowButton:update_text()
vArrowButton.lua:76:function vArrowButton:set_orientation(val)
vArrowButton.lua:81:function vArrowButton:get_orientation()
vArrowButton.lua:87:function vArrowButton:set_flipped(val)
vArrowButton.lua:92:function vArrowButton:get_flipped()
vButton.lua:18:function vButton:__init(...)
vButton.lua:58:function vButton:build()
vButton.lua:78:function vButton:press()
vButton.lua:86:function vButton:release()
vButton.lua:99:function vButton:update()
vButton.lua:113:function vButton:set_active(b)
vButton.lua:119:function vButton:set_text(val)
vButton.lua:125:function vButton:get_text()
vButton.lua:131:function vButton:set_bitmap(val)
vButton.lua:137:function vButton:get_bitmap()
vButton.lua:143:function vButton:set_color(val)
vButton.lua:149:function vButton:get_color()
vButton.lua:155:function vButton:set_midi_mapping(val)
vButton.lua:163:function vButton:set_width(val)
vButton.lua:173:function vButton:set_height(val)
vButtonStrip.lua:20:function vButtonStripMember:__init(...)
vButtonStrip.lua:39:function vButtonStripMember:__tostring()
vButtonStrip.lua:63:function vButtonStrip:__init(...)
vButtonStrip.lua:122:function vButtonStrip:get_items()
vButtonStrip.lua:126:function vButtonStrip:set_items(items)
vButtonStrip.lua:139:function vButtonStrip:get_spacing()
vButtonStrip.lua:143:function vButtonStrip:set_spacing(val)
```

```
vButtonStrip.lua:152:function vButtonStrip:get_min_segment_size()
vButtonStrip.lua:156:function vButtonStrip:set_min_segment_size(val)
vButtonStrip.lua:166:function vButtonStrip:set_width(val)
vButtonStrip.lua:174:function vButtonStrip:set_height(val)
vButtonStrip.lua:181:function vButtonStrip:set_active(b)
vButtonStrip.lua:192:function vButtonStrip:build()
vButtonStrip.lua:217:function vButtonStrip:press(idx)
vButtonStrip.lua:226:function vButtonStrip:release(idx)
vButtonStrip.lua:239:function vButtonStrip:_clear()
vButtonStrip.lua:249:function vButtonStrip:show_placeholder(str_msg)
vButtonStrip.lua:267:function vButtonStrip:update()
vButtonStrip.lua:318:function vButtonStrip:get_item_offset(item_idx)
vButtonStrip.lua:339:function vButtonStrip:get_combined_weight()
vButtonStrip.lua:350:function vButtonStrip:add_item(member,at_idx)
vCellBitmap.lua:14:function vCellBitmap:__init(...)
vCellBitmap.lua:58:function vCellBitmap:get_value()
vCellBitmap.lua:64:function vCellBitmap:set_value(str)
vCellBitmap.lua:71:function vCellBitmap:set_bitmap(str)
vCellBitmap.lua:83:function vCellBitmap:get_bitmap(str)
vCellBitmap.lua:90:function vCellBitmap:set_mode(str)
vCellBitmap.lua:97:function vCellBitmap:get_mode(str)
vCellBitmap.lua:103:function vCellBitmap:set_notifier(fn)
vCellBitmap.lua:107:function vCellBitmap:get_notifier()
vCellBitmap.lua:114:function vCellBitmap:set_active(val)
vCellButton.lua:12:function vCellButton:__init(...)
vCellButton.lua:79:function vCellButton:set_value(str)
vCellButton.lua:83:function vCellButton:get_value()
vCellButton.lua:89:function vCellButton:set_text(str)
vCellButton.lua:109:function vCellButton:get_text()
vCellButton.lua:116:function vCellButton:set_bitmap(str)
vCellButton.lua:128:function vCellButton:get_bitmap(str)
vCellButton.lua:134:function vCellButton:set_color(t)
vCellButton.lua:140:function vCellButton:get_color()
vCellButton.lua:146:function vCellButton:set_released(fn)
vCellButton.lua:150:function vCellButton:get_released()
vCellButton.lua:156:function vCellButton:set_notifier(fn)
vCellButton.lua:160:function vCellButton:get_notifier()
vCellButton.lua:166:function vCellButton:set_pressed(fn)
vCellButton.lua:170:function vCellButton:get_pressed()
vCellButton.lua:176:function vCellButton:set_active(val)
vCellCheckBox.lua:14:function vCellCheckBox:__init(...)
vCellCheckBox.lua:46:function vCellCheckBox:set_value(val,skip_event)
vCellCheckBox.lua:62:function vCellCheckBox:get_value()
vCellCheckBox.lua:68:function vCellCheckBox:set_notifier(fn)
vCellCheckBox.lua:72:function vCellCheckBox:get_notifier()
vCellCheckBox.lua:79:function vCellCheckBox:set_active(val)
vCell.lua:14:function vCell:__init(...)
vCell.lua:43:function vCell:get_value()
vCell.lua:54:function vCell:set_value(val,skip_event)
vCell.lua:66:function vCell:update()
vCellPopup.lua:14:function vCellPopup:__init(...)
vCellPopup.lua:50:function vCellPopup:set_value(val,skip_event)
vCellPopup.lua:69:function vCellPopup:get_value()
vCellPopup.lua:75:function vCellPopup:set_items(tbl)
vCellPopup.lua:79:function vCellPopup:get_items()
vCellPopup.lua:85:function vCellPopup:set_notifier(fn)
vCellPopup.lua:89:function vCellPopup:get_notifier()
vCellPopup.lua:95:function vCellPopup:set_active(val)
vCellTextField.lua:14:function vCellTextField:__init(...)
vCellTextField.lua:45:function vCellTextField:set_value(str)
vCellTextField.lua:49:function vCellTextField:get_value()
vCellTextField.lua:57:function vCellTextField:get_text()
vCellTextField.lua:61:function vCellTextField:set_text(val,skip_event)
vCellTextField.lua:77:function vCellTextField:set_active(val)
vCellText.lua:16:function vCellText:__init(...)
vCellText.lua:93:function vCellText:set_value(str)
vCellText.lua:97:function vCellText:get_value()
vCellText.lua:105:function vCellText:get_text()
vCellText.lua:109:function vCellText:set_text(str)
```

```
vCellText.lua:136:function vCellText:get_align()
vCellText.lua:141:function vCellText:set_align(str)
vCellText.lua:149:function vCellText:get_font()
vCellText.lua:154:function vCellText:set_font(str)
vCellText.lua:162:function vCellText:set_notifier(fn)
vCellText.lua:166:function vCellText:get_notifier()
vCellText.lua:172:function vCellText:set_width(val)
vCellText.lua:180:function vView:set_height(val)
vCellValueBox.lua:14:function vCellValueBox:__init(...)
vCellValueBox.lua:62:function vCellValueBox:get_value()
vCellValueBox.lua:66:function vCellValueBox:set_value(val, skip_event)
vCellValueBox.lua:90:function vCellValueBox:get_min()
vCellValueBox.lua:94:function vCellValueBox:set_min(val)
vCellValueBox.lua:103:function vCellValueBox:get_max()
vCellValueBox.lua:107:function vCellValueBox:set_max(val)
vCellValueBox.lua:116:function vCellValueBox:set_active(val)
vCellValueBox.lua:127:function vCellValueBox._default_tonumber(self, val)
vCellValueBox.lua:136:function vCellValueBox._default_tostring(self, val)
vCompositeControl.lua:32:function vCompositeControl:__init(...)
vCompositeControl.lua:49:function vCompositeControl:register_views(t)
vCompositeControl.lua:68:function vCompositeControl:add_view(view, vb_owner)
vCompositeControl.lua:86:function vCompositeControl:remove_view(vb_owner, view)
vCompositeControl.lua:103:function vCompositeControl:concat_views()
vControl.lua:13:function vControl:__init(...)
vControl.lua:40:function vControl:request_update()
vControl.lua:60:function vControl:perform_update()
vControl.lua:76:function vControl:build()
vControl.lua:91:function vControl:update()
vControl.lua:97:function vControl:set_active(b)
vControl.lua:101:function vControl:get_active()
vControl.lua:107:function vControl:set_midi_mapping(str)
vControl.lua:111:function vControl:get_midi_mapping()
vDialog.lua:17:function vDialog:__init(...)
vDialog.lua:75:function vDialog:show()
vDialog.lua:102:function vDialog:close()
vDialog.lua:115:function vDialog:create_dialog()
vDialog.lua:129:function vDialog:dialog_is_visible()
vDialog.lua:140:function vDialog:idle_notifier_waiting()
vDialogWizard.lua:28:function vDialogWizard:__init(...)
vDialogWizard.lua:51:function vDialogWizard:show_prev_page()
vDialogWizard.lua:58:function vDialogWizard:show_next_page()
vDialogWizard.lua:66:function vDialogWizard:create_dialog()
vDialogWizard.lua:81:function vDialogWizard:build_navigation()
vEditField.lua:57:function vEditField:__init(...)
vEditField.lua:103:function vEditField:build()
vEditField.lua:249:function vEditField:update()
vEditField.lua:311:function vEditField:update_result()
vEditField.lua:325:function vEditField:get_result()
vEditField.lua:354:function vEditField:apply()
vEditField.lua:370:function vEditField:get_type_ops()
vEditField.lua:386:function vEditField:set_value(cval)
vEditField.lua:445:function vEditField:get_value()
vEditField.lua:455:function vEditField:set_operator(val)
vEditField.lua:480:function vEditField:get_operator()
vEditField.lua:489:function vEditField:get_operator_value()
vEditField.lua:504:function vEditField:set_width(val)
vEditField.lua:522:function vEditField:set_height(val)
vEditField.lua:538:function vEditField:set_active(val)
vFileBrowser.lua:69:function vFileBrowser:__init(...)
vFileBrowser.lua:237:function vFileBrowser:open_item(item)
vFileBrowser.lua:254:function vFileBrowser:get_column_def()
vFileBrowser.lua:315:function vFileBrowser:get_header_def()
vFileBrowser.lua:359:function vFileBrowser:build()
vFileBrowser.lua:417:function vFileBrowser:update()
vFileBrowser.lua:424:function vFileBrowser:get_items()
vFileBrowser.lua:432:function vFileBrowser:get_selected_item()
vFileBrowser.lua:439:function vFileBrowser:create_path(str)
vFileBrowser.lua:450:function vFileBrowser:delete_selected()
vFileBrowser.lua:484:function vFileBrowser:delete_folder(str)
```

```
vFileBrowser.lua:506:function vFileBrowser:match_file_type(file_path)
vFileBrowser.lua:518:function vFileBrowser:count_checked()
vFileBrowser.lua:526:function vFileBrowser:browse_path()
vFileBrowser.lua:536:function vFileBrowser:refresh()
vFileBrowser.lua:543:function vFileBrowser:parent_directory()
vFileBrowser.lua:558:function vFileBrowser:create_directory()
vFileBrowser.lua:606:function vFileBrowser:rename_file()
vFileBrowser.lua:643:function vFileBrowser:delete_files()
vFileBrowser.lua:668:function vFileBrowser:set_path(str)
vFileBrowser.lua:752:function vFileBrowser:get_path()
vFileBrowser.lua:760:function vFileBrowser:is_root_folder(str)
vFileBrowser.lua:768:function vFileBrowser:update_row_styling()
vFileBrowser.lua:783:function vFileBrowser:clear_row_styling()
vFileBrowser.lua:791:function vFileBrowser:get_num_rows()
vFileBrowser.lua:796:function vFileBrowser:set_num_rows(val)
vFileBrowser.lua:806:function vFileBrowser:get_file_ext()
vFileBrowser.lua:811:function vFileBrowser:set_file_ext(val)
vFileBrowser.lua:819:function vFileBrowser:get_file_types()
vFileBrowser.lua:824:function vFileBrowser:set_file_types(t)
vFileBrowser.lua:832:function vFileBrowser:get_show_columns()
vFileBrowser.lua:837:function vFileBrowser:set_show_columns(t)
vFileBrowser.lua:845:function vFileBrowser:get_show_parent_folder()
vFileBrowser.lua:849:function vFileBrowser:set_show_parent_folder(val)
vFileBrowser.lua:855:function vFileBrowser:get_single_select()
vFileBrowser.lua:859:function vFileBrowser:set_single_select(val)
vFileBrowser.lua:865:function vFileBrowser:set_width(val)
vFileBrowser.lua:874:function vFileBrowser:set_height(val)
vFileBrowser.lua:883:function vFileBrowser:set_active(val)
vFileBrowser.lua:892:function vFileBrowser:set_show_header(val)
vFileBrowser.lua:899:function vFileBrowser:get_show_header()
vGraph.lua:68:function vGraph:__init(...)
vGraph.lua:184:function vGraph:compute_peak_value()
vGraph.lua:198:function vGraph:update()
vGraph.lua:302:function vGraph:handle_bar_clicked(idx)
vGraph.lua:316:function vGraph:value_to_bitmap(val,part)
vGraph.lua:338:function vGraph:apply_to_bar(idx,fn)
vGraph.lua:369:function vGraph:get_bitmap_ids(idx,rpt)
vGraph.lua:383:function vGraph:add_line_elements(lower_id,middle_id,upper_id,line_id,idx,va
l,is_selected)
vGraph.lua:427:function vGraph:remove_line_elements(lower_id,middle_id,upper_id,line_id)
vGraph.lua:446:function vGraph:get_bar_style(idx)
vGraph.lua:455:function vGraph:set_bar_style(idx,style)
vGraph.lua:472:function vGraph:decide_bitmap_size(val)
vGraph.lua:538:function vGraph:set_value(idx,val)
vGraph.lua:583:function vGraph:clear_selection()
vGraph.lua:593:function vGraph:select_all()
vGraph.lua:604:function vGraph:selection_handler(changed,added,removed)
vGraph.lua:623:function vGraph:get_selected_item()
vGraph.lua:629:function vGraph:get_item(idx)
vGraph.lua:638:function vGraph:toggle_index(idx)
vGraph.lua:651:function vGraph:get_data()
vGraph.lua:655:function vGraph:set_data(t)
vGraph.lua:670:function vGraph:get_draw_mode()
vGraph.lua:674:function vGraph:set_draw_mode(val)
vGraph.lua:685:function vGraph:get_value_max()
vGraph.lua:689:function vGraph:set_value_max(val)
vGraph.lua:705:function vGraph:get_value_min()
vGraph.lua:709:function vGraph:set_value_min(val)
vGraph.lua:725:function vGraph:get_value_quant()
vGraph.lua:729:function vGraph:set_value_quant(val)
vGraph.lua:739:function vGraph:get_peak()
vGraph.lua:743:function vGraph:set_peak(val)
vGraph.lua:754:function vGraph:get_click_notifier()
vGraph.lua:758:function vGraph:set_click_notifier(fn)
vGraph.lua:764:function vGraph:get_selection_notifier()
vGraph.lua:768:function vGraph:set_selection_notifier(fn)
vGraph.lua:774:function vGraph:set_width(val)
vGraph.lua:785:function vGraph:set_height(val)
vGraph.lua:797:function vGraph:set_selected_index(idx)
```

```
vGraph.lua:802:function vGraph:get_selected_index()
vGraph.lua:808:function vGraph:set_selected_indices(t)
vGraph.lua:815:function vGraph:get_selected_indices()
vGraph.lua:821:function vGraph:set_select_mode(val, skip_event)
vGraph.lua:830:function vGraph:get_select_mode()
vGraph.lua:836:function vGraph:set_require_selection(val, skip_event)
vGraph.lua:844:function vGraph:get_require_selection()
vGraph.lua:850:function vGraph:set_style_normal(val)
vGraph.lua:858:function vGraph:get_style_normal()
vGraph.lua:864:function vGraph:set_style_selected(val)
vGraph.lua:872:function vGraph:get_style_selected()
vGraph.lua:878:function vGraph:set_normalized(val)
vGraph.lua:887:function vGraph:get_normalized()
vLib.lua:66:function vLib.generate_uid()
vLib.lua:83:function vLib.distribute_sizes(sizes, target, spacing, min_width)
vLib.lua:168:function vLib.get_skin_color(name)
vLogView.lua:20:function vLogView:__init(...)
vLogView.lua:70:function vLogView:clear()
vLogView.lua:80:function vLogView:add(txt)
vLogView.lua:110:function vLogView:replace(txt)
vLogView.lua:124:function vLogView:set_text(str)
vLogView.lua:129:function vLogView:get_text()
vLogView.lua:135:function vLogView:set_active(val)
vLogView.lua:140:function vLogView:get_active()
vPathSelector.lua:42:function vPathSelector:__init(...)
vPathSelector.lua:87:function vPathSelector:build()
vPathSelector.lua:120:function vPathSelector:set_width(val)
vPathSelector.lua:142:function vPathSelector:set_height(val)
vPathSelector.lua:160:function vPathSelector:update()
vPathSelector.lua:178:function vPathSelector:browse_for_path()
vPathSelector.lua:191:function vPathSelector:path_is_valid()
vPathSelector.lua:203:function vPathSelector:set_active(val)
vPathSelector.lua:214:function vPathSelector:get_mode()
vPathSelector.lua:218:function vPathSelector:set_mode(val)
vPathSelector.lua:229:function vPathSelector:get_editable()
vPathSelector.lua:233:function vPathSelector:set_editable(val)
vPathSelector.lua:242:function vPathSelector:get_path()
vPathSelector.lua:246:function vPathSelector:set_path(val)
vPathSelector.lua:267:function vPathSelector:get_placeholder()
vPathSelector.lua:271:function vPathSelector:set_placeholder(val)
vPopup.lua:20:function vPopup:__init(...)
vPopup.lua:39:function vPopup:build()
vPopup.lua:57:function vPopup:update()
vPopup.lua:65:function vPopup:set_active(val)
vPopup.lua:74:function vPopup:set_items(val)
vPopup.lua:80:function vPopup:get_items()
vPopup.lua:86:function vPopup:set_value(val)
vPopup.lua:92:function vPopup:get_value()
vPrompt.lua:33:function vPrompt.prompt_for_string(str_default, str_description, str_title)
vPrompt.lua:74:function vPrompt.prompt_for_color(callback, active_color, palette)
vPrompt.lua:263:function vPrompt.show_custom_prompt(title, content_view, key_handler)
vPrompt.lua:297:function vPrompt.close_custom_prompt()
vRadioButton.lua:16:function vRadioButton:__init()
vScrollbar.lua:37:function vScrollbar:__init(...)
vScrollbar.lua:90:function vScrollbar:build()
vScrollbar.lua:155:function vScrollbar:set_width(val)
vScrollbar.lua:168:function vScrollbar:set_height(val)
vScrollbar.lua:193:function vScrollbar:set_button_height(val)
vScrollbar.lua:208:function vScrollbar:set_button_height(val)
vScrollbar.lua:214:function vScrollbar:set_position(num)
vScrollbar.lua:222:function vScrollbar:get_position()
vScrollbar.lua:228:function vScrollbar:on_arrow_up()
vScrollbar.lua:240:function vScrollbar:on_arrow_down()
vScrollbar.lua:252:function vScrollbar:on_track_change()
vScrollbar.lua:265:function vScrollbar:set_active(val)
vScrollbar.lua:280:function vScrollbar:set_index(idx)
vScrollbar.lua:288:function vScrollbar:get_index()
vSearchField.lua:36:function vSearchField:__init(...)
vSearchField.lua:119:function vSearchField:build()
```



```
vSearchField.lua:153:function vSearchField:update()
vSearchField.lua:168:function vSearchField:auto_resize()
vSearchField.lua:179:function vSearchField:get_initial_chars()
vSearchField.lua:197:function vSearchField:match_item()
vSearchField.lua:239:function vSearchField:update_text_style()
vSearchField.lua:253:function vSearchField:display_items(t)
vSearchField.lua:270:function vSearchField:match_items()
vSearchField.lua:304:function vSearchField:lost_focus()
vSearchField.lua:315:function vSearchField:set_index(val)
vSearchField.lua:347:function vSearchField:get_index()
vSearchField.lua:354:function vSearchField:get_case_sensitive()
vSearchField.lua:361:function vSearchField:set_width(val)
vSearchField.lua:388:function vSearchField:set_height(val)
vSearchField.lua:406:function vSearchField:set_active(val)
vSearchField.lua:414:function vSearchField:set_popup(val)
vSearchField.lua:423:function vSearchField:get_popup()
vSearchField.lua:430:function vSearchField:set_case_sensitive(val)
vSearchField.lua:436:function vSearchField:get_case_sensitive()
vSearchField.lua:443:function vSearchField:set_items(val)
vSearchField.lua:455:function vSearchField:get_items()
vSearchField.lua:462:function vSearchField:set_auto_size()
vTable.lua:78:function vTable:__init(...)
vTable.lua:200:function vTable:set_data(data)
vTable.lua:212:function vTable:get_data()
vTable.lua:224:function vTable.assign_members(cell,defs,col_key,reserved_keys)
vTable.lua:238:function vTable:build()
vTable.lua:345:function vTable:cell_factory(ctype)
vTable.lua:398:function vTable:remove_table()
vTable.lua:448:function vTable:update()
vTable.lua:555:function vTable:get_cell(row_idx,col_idx)
vTable.lua:570:function vTable:get_content_width()
vTable.lua:584:function vTable:set_num_rows(num)
vTable.lua:598:function vTable:get_num_rows()
vTable.lua:607:function vTable:get_col_type(idx)
vTable.lua:623:function vTable:get_col_key(idx)
vTable.lua:637:function vTable:get_col_idx(key)
vTable.lua:654:function vTable:get_col_width(idx,abs_only)
vTable.lua:685:function vTable:compute_auto_width(idx)
vTable.lua:709:function vTable:get_col_margin(idx)
vTable.lua:724:function vTable:get_item_by_id(item_id)
vTable.lua:733:function vTable:get_header_data(key)
vTable.lua:748:function vTable:get_header_ctype(key)
vTable.lua:765:function vTable:set_header_def(key,member,value)
vTable.lua:778:function vTable:set_column_def(key,member,value)
vTable.lua:798:function vTable:autosize_to_contents()
vTable.lua:817:function vTable:set_width(val)
vTable.lua:828:function vTable:set_height(val)
vTable.lua:845:function vTable:get_height()
vTable.lua:858:function vTable:set_scrollbar_width(val)
vTable.lua:866:function vTable:get_scrollbar_width()
vTable.lua:872:function vTable:set_row_height(val)
vTable.lua:879:function vTable:get_row_height()
vTable.lua:885:function vTable:set_header_height(val)
vTable.lua:892:function vTable:get_header_height()
vTable.lua:898:function vTable:set_show_header(val)
vTable.lua:905:function vTable:get_show_header()
vTable.lua:911:function vTable:set_autosize(val)
vTable.lua:918:function vTable:get_autosize()
vTable.lua:924:function vTable:set_row_offset(val)
vTable.lua:935:function vTable:get_row_offset()
vTable.lua:941:function vTable:set_active(val)
vTable.lua:953:function vTable:update_scrollbar()
vTabs.lua:45:function vTabs:__init(...)
vTabs.lua:127:function vTabs:build()
vTabs.lua:172:function vTabs:build_layout(rmv)
vTabs.lua:198:function vTabs:refresh_size()
vTabs.lua:210:function vTabs:set_labels(t)
vTabs.lua:226:function vTabs:set_content(t)
vTabs.lua:258:function vTabs:add_content(tab_idx,view)
```

```
vTabs.lua:271:function vTabs:set_index(idx)
vTabs.lua:295:function vTabs:get_index()
vTabs.lua:302:function vTabs:get_tab_id(idx)
vTabs.lua:311:function vTabs:set_switcher_width(val)
vTabs.lua:320:function vTabs:get_switcher_width()
vTabs.lua:327:function vTabs:set_switcher_align(val)
vTabs.lua:346:function vTabs:get_switcher_align()
vTabs.lua:352:function vTabs:set_switcher_height(val)
vTabs.lua:365:function vTabs:get_switcher_height()
vTabs.lua:371:function vTabs:set_layout(val)
vTabs.lua:379:function vTabs:get_layout()
vTabs.lua:385:function vTabs:set_size_method(val)
vTabs.lua:397:function vTabs:get_size_method()
vTabs.lua:403:function vTabs:set_active(val)
vTabs.lua:413:function vTabs:set_width(val)
vTabs.lua:450:function vTabs:set_height(val)
vTabs.lua:501:function vTabs:get_largest_width_height()
vTabs.lua:519:function vTabs:set_midi_mapping(str)
vTextField.lua:29:function vTextField:__init(...)
vTextField.lua:120:function vTextField:build()
vTextField.lua:140:function vTextField:build_textfield()
vTextField.lua:156:function vTextField:update()
vTextField.lua:165:function vTextField:update_placeholder()
vTextField.lua:181:function vTextField:get_display_text()
vTextField.lua:198:function vTextField:auto_resize()
vTextField.lua:209:function vTextField:get_text_width()
vTextField.lua:218:function vTextField:received_focus()
vTextField.lua:238:function vTextField:lost_focus()
vTextField.lua:255:function vTextField:set_text(val,user_input)
vTextField.lua:292:function vTextField:get_text()
vTextField.lua:298:function vTextField:set_font(val)
vTextField.lua:316:function vTextField:get_font()
vTextField.lua:325:function vTextField:set_style(val)
vTextField.lua:334:function vTextField:get_style()
vTextField.lua:343:function vTextField:set_width(val)
vTextField.lua:355:function vTextField:set_height(val)
vTextField.lua:367:function vTextField:set_active(val)
vTextField.lua:377:function vTextField:set_edit_mode(val)
vTextField.lua:386:function vTextField:get_edit_mode()
vTextField.lua:395:function vTextField:set_auto_size(val)
vTextField.lua:404:function vTextField:get_auto_size()
vTextField.lua:413:function vTextField:set_placeholder(val)
vTextField.lua:422:function vTextField:get_placeholder()
vToggleButton.lua:16:function vToggleButton:__init(...)
vToggleButton.lua:46:function vToggleButton:toggle()
vToggleButton.lua:53:function vToggleButton:release()
vToggleButton.lua:59:function vToggleButton:update()
vToggleButton.lua:71:function vToggleButton:set_enabled(val)
vToggleButton.lua:77:function vToggleButton:get_enabled()
vToggleButton.lua:83:function vToggleButton:set_text_enabled(val)
vToggleButton.lua:89:function vToggleButton:get_text_enabled()
vToggleButton.lua:95:function vToggleButton:set_text_disabled(val)
vToggleButton.lua:101:function vToggleButton:get_text_disabled()
vToggleButton.lua:107:function vToggleButton:set_color_enabled(val)
vToggleButton.lua:113:function vToggleButton:get_color_enabled()
vToggleButton.lua:119:function vToggleButton:set_color_disabled(val)
vToggleButton.lua:125:function vToggleButton:get_color_disabled()
vToggleButton.lua:131:function vToggleButton:set_bitmap_enabled(val)
vToggleButton.lua:137:function vToggleButton:get_bitmap_enabled()
vToggleButton.lua:143:function vToggleButton:set_bitmap_disabled(val)
vToggleButton.lua:149:function vToggleButton:get_bitmap_disabled()
vTree.lua:46:function vTree:__init(...)
vTree.lua:180:function vTree:get_elm_id(str,idx)
vTree.lua:187:function vTree:build()
vTree.lua:322:function vTree:remove_rows()
vTree.lua:347:function vTree:fit_rows_width()
vTree.lua:361:function vTree:update()
vTree.lua:389:function vTree:update_tree(t,depth)
vTree.lua:483:function vTree:update_scrollbar(maintain_index)
```

```

vTree.lua:503:function vTree:get_visible_row_count(t)
vTree.lua:530:function vTree:parse_data(t)
vTree.lua:553:function vTree:autosize_to_contents()
vTree.lua:577:function vTree:load_file(file_path)
vTree.lua:613:function vTree:get_row_by_id(item_id)
vTree.lua:630:function vTree:selection_handler(changed,added,removed)
vTree.lua:666:function vTree:set_data(data)
vTree.lua:687:function vTree:get_data()
vTree.lua:694:function vTree:set_num_rows(num)
vTree.lua:710:function vTree:get_num_rows()
vTree.lua:716:function vTree:set_row_offset(val)
vTree.lua:721:function vTree:get_row_offset()
vTree.lua:727:function vTree:set_indent(val)
vTree.lua:732:function vTree:get_indent()
vTree.lua:738:function vTree:set_width(val)
vTree.lua:749:function vTree:set_height(val)
vTree.lua:766:function vTree:get_height()
vTree.lua:777:function vTree:set_row_height(val)
vTree.lua:783:function vTree:get_row_height()
vTree.lua:789:function vTree:set_autosize(val)
vTree.lua:795:function vTree:get_autosize()
vTree.lua:801:function vTree:set_selected_index(idx)
vTree.lua:807:function vTree:get_selected_index()
vTree.lua:813:function vTree:set_selected_indices(t)
vTree.lua:820:function vTree:get_selected_indices()
vTree.lua:826:function vTree:set_select_mode(val,skip_event)
vTree.lua:835:function vTree:get_select_mode()
vTree.lua:841:function vTree:set_require_selection(val,skip_event)
vTree.lua:849:function vTree:get_require_selection()
vView.lua:10:function vView:__init(...)
vView.lua:58:function vView:set_tooltip(str)
vView.lua:69:function vView:get_tooltip(a)
vView.lua:75:function vView:set_visible(val)
vView.lua:82:function vView:get_visible()
vView.lua:88:function vView:set_width(val)
vView.lua:95:function vView:get_width()
vView.lua:101:function vView:set_height(val)
vView.lua:108:function vView:get_height()
vWaveform.lua:40:function vWaveform:__init(...)
vWaveform.lua:68:function vWaveform:collect_frames()
vWaveform.lua:117:function vWaveform:set_instr_index(val)
vWaveform.lua:130:function vWaveform:get_instr_index()
vWaveform.lua:136:function vWaveform:set_sample_index(val)
vWaveform.lua:149:function vWaveform:get_sample_index()

xLib:
-----
xAudioDeviceAutomation.lua:28:function xAudioDeviceAutomation:__init()
xAudioDeviceAutomation.lua:51:function xAudioDeviceAutomation:has_points()
xAudioDeviceAutomation.lua:68:function xAudioDeviceAutomation:_get_number_of_lines()
xAudioDeviceAutomation.lua:85:function xAudioDeviceAutomation:compatible_with_device_path(device)
xAudioDeviceAutomation.lua:94:function xAudioDeviceAutomation:assign_definition(t)
xAudioDeviceAutomation.lua:114:function xAudioDeviceAutomation:__tostring()
xAudioDevice.lua:32:function xAudioDevice.get_param_index(device,param)
xAudioDevice.lua:50:function xAudioDevice.resolve_device(device,track_idx)
xAudioDevice.lua:86:function xAudioDevice.resolve_parameter(param,track_idx,device_idx)
xAudioDevice.lua:146:function xAudioDevice.get_device_routings(device)
xAudioDevice.lua:173:function xAudioDevice.is_send_device(device)
xAudioDevice.lua:188:function xAudioDevice.get_mixer_parameters(device)
xAudioDevice.lua:209:function xAudioDevice.is_automated(device)
xAudioDevice.lua:228:function xAudioDevice.get_parameter_by_name(device,param_name)
xAudioDevice.lua:250:function xAudioDevice.copy_automation(track_idx,device_idx,seq_range,yield_at)
xAudioDevice.lua:301:function xAudioDevice.clear_automation(track_idx,device,seq_range)
xAudioDevice.lua:322:function xAudioDevice.cut_automation(track_idx,device_idx,seq_range)
xAudioDevice.lua:331:function xAudioDevice.swap_automation(
xAudioDevice.lua:352:function xAudioDevice.paste_automation(device_auto,track_idx,device_idx,seq_range,apply_mode,yield_at)

```

```
xAutomation.lua:56:function xAutomation:__init(...)
xAutomation.lua:88:function xAutomation:record(track_idx,param,value,value_mode)
xAutomation.lua:145:function xAutomation:has_automation(track_idx,param)
xAutomation.lua:168:function xAutomation:clear_range(pos_from,length,ptrack_auto)
xAutomation.lua:185:function xAutomation:get_position()
xAutomation.lua:208:function xAutomation.get_or_create_automation(ptrack,param)
xAutomation.lua:224:function xAutomation.get_scaled_value(value,value_mode)
xBlockLoop.lua:45:function xBlockLoop:__init(...)
xBlockLoop.lua:76:function xBlockLoop:get_length()
xBlockLoop.lua:86:function xBlockLoop.get_block_lines(seq_idx)
xBlockLoop.lua:101:function xBlockLoop.get_block_index(seq_idx,line_idx)
xBlockLoop.lua:117:function xBlockLoop.get_start()
xBlockLoop.lua:133:function xBlockLoop.get_end()
xBlockLoop.lua:161:function xBlockLoop.within(seq_idx,line_idx,end_pos)
xBlockLoop.lua:188:function xBlockLoop.exiting(seq_idx,line_idx,line_delta,end_pos)
xBlockLoop.lua:214:function xBlockLoop.get_previous_line_index()
xBlockLoop.lua:231:function xBlockLoop.get_next_line_index()
xBlockLoop.lua:255:function xBlockLoop.normalize_line_range(start_line,end_line,num_lines,c
oeffs)
xColumns.lua:25:function xColumns.previous_column()
xColumns.lua:78:function xColumns.next_column()
xColumns.lua:131:function xColumns.next_note_column(wrap_pattern,wrap_track,track_index)
xColumns.lua:168:function xColumns.previous_note_column(wrap_pattern,wrap_track,track_index
)
xColumns.lua:211:function xColumns.shift_note_columns(ptrack_or_phrase,col_idx,amount,line_
start,line_end)
xCursorPos.lua:27:function xCursorPos:__init(...)
xCursorPos.lua:66:function xCursorPos.resolve()
xCursorPos.lua:103:function xCursorPos.get_column()
xCursorPos.lua:119:function xCursorPos.select()
xCursorPos.lua:139:function xCursorPos.handle_key(key)
xCursorPos.lua:185:function xCursorPos:__tostring()
xEffectColumn.lua:86:function xEffectColumn:__init(args)
xEffectColumn.lua:125:function xEffectColumn.get_number_value()
xEffectColumn.lua:129:function xEffectColumn.set_number_value(val)
xEffectColumn.lua:134:function xEffectColumn.get_number_string()
xEffectColumn.lua:138:function xEffectColumn.set_number_string(str)
xEffectColumn.lua:145:function xEffectColumn.get_amount_value()
xEffectColumn.lua:149:function xEffectColumn.set_amount_value(val)
xEffectColumn.lua:154:function xEffectColumn.get_amount_string()
xEffectColumn.lua:158:function xEffectColumn.set_amount_string(str)
xEffectColumn.lua:169:function xEffectColumn.do_write(fx_col,tokens,clear_undefined)
xEffectColumn.lua:189:function xEffectColumn.do_write_number_value(fx_col,clear_undefined)
xEffectColumn.lua:198:function xEffectColumn.do_write_number_string(fx_col,clear_undefined)
xEffectColumn.lua:207:function xEffectColumn.do_write_amount_value(fx_col,clear_undefined)
xEffectColumn.lua:216:function xEffectColumn.do_write_amount_string(fx_col,clear_undefined)
xEffectColumn.lua:230:function xEffectColumn.number_value_to_string(val)
xEffectColumn.lua:242:function xEffectColumn.number_string_to_value(str)
xEffectColumn.lua:257:function xEffectColumn.amount_value_to_string(val)
xEffectColumn.lua:262:function xEffectColumn.amount_string_to_value(str)
xEffectColumn.lua:271:function xEffectColumn.do_read(fx_col)
xEffectColumn.lua:286:function xEffectColumn:__tostring()
xEnvelope.lua:29:function xEnvelope:__init()
xEnvelope.lua:49:function xEnvelope.has_points()
xEnvelope.lua:60:function xEnvelope.get_number_of_lines()
xEnvelope.lua:74:function xEnvelope:__tostring()
xInstrument.lua:23:function xInstrument.set_previous_scale(instr)
xInstrument.lua:40:function xInstrument.set_next_scale(instr)
xInstrument.lua:58:function xInstrument.set_scale_by_index(instr,scale_idx)
xInstrument.lua:76:function xInstrument.is_sliced(instr)
xInstrument.lua:91:function xInstrument.is_keyzone_available(instr)
xInstrument.lua:116:function xInstrument.is_triggering_phrase(instr)
xInstrument.lua:141:function xInstrument.get_phrase_playback_enabled(instr)
xInstrument.lua:156:function xInstrument.set_phrase_playback_enabled(instr,bool)
xInstrument.lua:173:function xInstrument.get_slice_marker_at_pos(instr,pos,threshold)
xInstrument.lua:200:function xInstrument.get_slice_marker_by_sample_idx(instr,sample_idx)
xInstrument.lua:216:function xInstrument.autocapture()
xInstrument.lua:228:function xInstrument.get_first_available()
xInstrument.lua:246:function xInstrument.get_selected_phrase_index(instr_idx)
```

```
xInstrument.lua:264:function xInstrument.resolve_midi_track(instr)
xInstrument.lua:279:function xInstrument.is_empty(instr)
xInstrument.lua:299:function xInstrument.reset_sampler()
xInstrument.lua:317:function xInstrument.insert_sample(
xInstrument.lua:363:function xInstrument.clone_sample(instr, sample_idx, args)
xKeyZone.lua:37:function xKeyZoneLayout:__init(...)
xKeyZone.lua:81:function xKeyZone.shift_by_semitones(instr, sample_idx_from, amt)
xKeyZone.lua:98:function xKeyZone.memoize_mappings(mappings)
xKeyZone.lua:125:function xKeyZone.find_mapping(mappings, note_rng, vel_rng, layer)
xKeyZone.lua:184:function xKeyZone.get_samples_mapped_to_note(instr, note)
xKeyZone.lua:201:function xKeyZone.distribute()
xKeyZone.lua:210:function xKeyZone.layer()
xKeyZone.lua:225:function xKeyZone.create_multisample_layout(layout, instr)
xKeyZone.lua:272:function xKeyZone.compute_multisample_velocities(vel_steps, vel_min, vel_max)
)
xKeyZone.lua:301:function xKeyZone.compute_multisample_notes(note_steps, note_min, note_max, extend)
xLFO.lua:21:function xLFO.sine(phase, min, max)
xLFO.lua:32:function xLFO.triangle(phase, min, max)
xLFO.lua:44:function xLFO.square(phase, min, max)
xLib.lua:36:function xLib.is_song_available()
xLineAutomation.lua:24:function xLineAutomation:__init(automation)
xLineAutomation.lua:45:function xLineAutomation:do_write(line, ptrack_auto, patt_num_lines)
xLineAutomation.lua:74:function xLineAutomation:__tostring()
xLine.lua:55:function xLine:__init(args)
xLine.lua:84:function xLine:get_note_columns()
xLine.lua:88:function xLine:get_effect_columns()
xLine.lua:105:function xLine:do_write(
xLine.lua:157:function xLine.clear_pattern_line(sequence, line, track_idx, phrase)
xLine.lua:183:function xLine.get_column(line, col_idx, track, visible_only)
xLine.lua:233:function xLine.do_read(sequence, line, include_hidden, track_idx, phrase)
xLine.lua:289:function xLine.resolve_pattern_line(sequence, line, track_idx)
xLine.lua:310:function xLine.resolve_phrase_line(line, phrase)
xLine.lua:325:function xLine.apply_descriptor(xline)
xLine.lua:346:function xLine:__tostring()
xLinePattern.lua:58:function xLinePattern:__init(note_columns, effect_columns)
xLinePattern.lua:78:function xLinePattern:apply_descriptor(note_columns, effect_columns)
xLinePattern.lua:111:function xLinePattern:do_write(sequence, line, track_idx, phrase, tokens, include_hidden, expand_columns, clear_undefined)
xLinePattern.lua:180:function xLinePattern:process_columns(
xLinePattern.lua:250:function xLinePattern.do_read(rns_line, max_note_cols, max_fx_cols)
xLinePattern.lua:329:function xLinePattern.get_effect_command(track, line, fx_type, notecol_idx, visible_only)
xLinePattern.lua:351:function xLinePattern.get_effect_subcolumn_command(track, line, fx_type, notecol_idx, visible_only)
xLinePattern.lua:369:function xLinePattern.get_effect_column_command(track, line, fx_type, notecol_idx, visible_only)
xLinePattern.lua:430:function xLinePattern.get_available_effect_column(track, line, visible_only, from_column)
xLinePattern.lua:490:function xLinePattern.set_effect_column_command(track, line, fx_number, fx_amount, column_index, overwrite)
xLinePattern.lua:544:function xLinePattern.get_midi_command(track, line)
xLinePattern.lua:585:function xLinePattern.set_midi_command(track, line, cmd, expand, replace)
xLinePattern.lua:643:function xLinePattern.clear_midi_command(track, line)
xLinePattern.lua:669:function xLinePattern:__tostring()
xMatrixSelection.lua:32:function xMatrixSelection.get_selection()
xMessage.lua:31:function xMessage:__init(...)
xMessage.lua:97:function xMessage:get_raw_message()
xMessage.lua:101:function xMessage:set_raw_message(val)
xMessage.lua:107:function xMessage:get_values()
xMessage.lua:111:function xMessage:set_values(val)
xMessage.lua:118:function xMessage:get_track_index()
xMessage.lua:122:function xMessage:set_track_index(val)
xMessage.lua:129:function xMessage:get_instrument_index()
xMessage.lua:133:function xMessage:set_instrument_index(val)
xMessage.lua:140:function xMessage:get_note_column_index()
xMessage.lua:144:function xMessage:set_note_column_index(val)
xMessage.lua:151:function xMessage:get_line_index()
xMessage.lua:155:function xMessage:set_line_index(val)
```

```
xMessage.lua:162:function xMessage:get_octave()
xMessage.lua:166:function xMessage:set_octave(val)
xMessage.lua:175:function xMessage:create_raw_message()
xMessage.lua:191:function xMessage:get_definition()
xMessage.lua:210:function xMessage:__tostring()
xMidiCommand.lua:35:function xMidiCommand:__init(...)
xMidiCommand.lua:63:function xMidiCommand:get_number_value()
xMidiCommand.lua:67:function xMidiCommand:get_number_string()
xMidiCommand.lua:71:function xMidiCommand:get_amount_value()
xMidiCommand.lua:75:function xMidiCommand:get_amount_string()
xMidiCommand.lua:81:function xMidiCommand:get_message_type()
xMidiCommand.lua:85:function xMidiCommand:set_message_type(val)
xMidiCommand.lua:97:function xMidiCommand:get_instrument_index()
xMidiCommand.lua:101:function xMidiCommand:set_instrument_index(val)
xMidiCommand.lua:114:function xMidiCommand:__tostring()
xMidiInput.lua:60:function xMidiInput:__init(...)
xMidiInput.lua:153:function xMidiInput:input(msg,port_name)
xMidiInput.lua:526:function xMidiInput:_create_fingerprint(msg_type,midi_msgs)
xMidiInput.lua:551:function xMidiInput:add_multibyte_exempt(msg_type,msgs)
xMidiInput.lua:562:function xMidiInput:on_idle()
xMidiIO.lua:26:function xMidiIO:__init(...)
xMidiIO.lua:80:function xMidiIO:open_midi_input(port_name)
xMidiIO.lua:125:function xMidiIO:input_midi(midi_msg,port_name)
xMidiIO.lua:140:function xMidiIO:input_sysex(sysex_msg,port_name)
xMidiIO.lua:157:function xMidiIO:close_midi_input(port_name)
xMidiIO.lua:176:function xMidiIO:open_midi_output(port_name)
xMidiIO.lua:193:function xMidiIO:close_midi_output(port_name)
xMidiIO.lua:212:function xMidiIO:initialize_midi_devices()
xMidiIO.lua:239:function xMidiIO:get_midi_inputs()
xMidiIO.lua:243:function xMidiIO:set_midi_inputs(val)
xMidiIO.lua:249:function xMidiIO:get_midi_outputs()
xMidiIO.lua:253:function xMidiIO:set_midi_outputs(val)
xMidiMessage.lua:95:function xMidiMessage:__init(...)
xMidiMessage.lua:148:function xMidiMessage:get_definition()
xMidiMessage.lua:164:function xMidiMessage:get_message_type()
xMidiMessage.lua:168:function xMidiMessage:set_message_type(val)
xMidiMessage.lua:176:function xMidiMessage:get_channel()
xMidiMessage.lua:180:function xMidiMessage:set_channel(val)
xMidiMessage.lua:190:function xMidiMessage:get_bit_depth()
xMidiMessage.lua:194:function xMidiMessage:set_bit_depth(val)
xMidiMessage.lua:205:function xMidiMessage:create_raw_message()
xMidiMessage.lua:430:function xMidiMessage:__tostring()
xMidiMessage.lua:449:function xMidiMessage.split_mb(val)
xMidiMessage.lua:460:function xMidiMessage.merge_mb(msb,lsb)
xNoteCapture.lua:22:function xNoteCapture.nearest(compare_fn,notepos)
xNoteCapture.lua:48:function xNoteCapture.previous(compare_fn,notepos,end_seq_idx)
xNoteCapture.lua:87:function xNoteCapture.next(compare_fn,notepos,end_seq_idx)
xNoteCapture.lua:123:function xNoteCapture.search_track(notepos,compare_fn,reverse)
xNoteCapture.lua:176:function xNoteCapture.compare_line(lines,count,line_idx,notepos,compare_fn)
xNoteColumn.lua:77:function xNoteColumn:__init(args)
xNoteColumn.lua:172:function xNoteColumn:get_note_value()
xNoteColumn.lua:176:function xNoteColumn:set_note_value(val)
xNoteColumn.lua:181:function xNoteColumn:get_note_string()
xNoteColumn.lua:185:function xNoteColumn:set_note_string(str)
xNoteColumn.lua:192:function xNoteColumn:get_instrument_value()
xNoteColumn.lua:196:function xNoteColumn:set_instrument_value(val)
xNoteColumn.lua:201:function xNoteColumn:get_instrument_string()
xNoteColumn.lua:205:function xNoteColumn:set_instrument_string(str)
xNoteColumn.lua:212:function xNoteColumn:get_volume_value()
xNoteColumn.lua:216:function xNoteColumn:set_volume_value(val)
xNoteColumn.lua:221:function xNoteColumn:get_volume_string()
xNoteColumn.lua:225:function xNoteColumn:set_volume_string(str)
xNoteColumn.lua:232:function xNoteColumn:get_panning_value()
xNoteColumn.lua:236:function xNoteColumn:set_panning_value(val)
xNoteColumn.lua:241:function xNoteColumn:get_panning_string()
xNoteColumn.lua:245:function xNoteColumn:set_panning_string(str)
xNoteColumn.lua:252:function xNoteColumn:get_delay_value()
xNoteColumn.lua:256:function xNoteColumn:set_delay_value(val)
```

```
xNoteColumn.lua:261:function xNoteColumn:get_delay_string()
xNoteColumn.lua:265:function xNoteColumn:set_delay_string(str)
xNoteColumn.lua:272:function xNoteColumn:get_effect_number_value()
xNoteColumn.lua:276:function xNoteColumn:set_effect_number_value(val)
xNoteColumn.lua:281:function xNoteColumn:get_effect_number_string()
xNoteColumn.lua:285:function xNoteColumn:set_effect_number_string(str)
xNoteColumn.lua:292:function xNoteColumn:get_effect_amount_value()
xNoteColumn.lua:296:function xNoteColumn:set_effect_amount_value(val)
xNoteColumn.lua:301:function xNoteColumn:get_effect_amount_string()
xNoteColumn.lua:305:function xNoteColumn:set_effect_amount_string(str)
xNoteColumn.lua:319:function xNoteColumn.note_string_to_value(str_val)
xNoteColumn.lua:356:function xNoteColumn.note_value_to_string(val)
xNoteColumn.lua:382:function xNoteColumn.instr_string_to_value(str)
xNoteColumn.lua:387:function xNoteColumn.instr_value_to_string(val)
xNoteColumn.lua:396:function xNoteColumn.delay_string_to_value(str)
xNoteColumn.lua:404:function xNoteColumn.delay_value_to_string(val)
xNoteColumn.lua:415:function xNoteColumn.column_string_to_value(str_val)
xNoteColumn.lua:436:function xNoteColumn.column_value_to_string(val)
xNoteColumn.lua:457:function xNoteColumn.convert_fx_to_value(str_val)
xNoteColumn.lua:475:function xNoteColumn.convert_fx_to_string(val)
xNoteColumn.lua:491:function xNoteColumn.do_read(note_col,tokens)
xNoteColumn.lua:513:function xNoteColumn.do_write(note_col,tokens,clear_undefined)
xNoteColumn.lua:535:function xNoteColumn.do_write_note_value(note_col,clear_undefined)
xNoteColumn.lua:542:function xNoteColumn.do_write_note_string(note_col,clear_undefined)
xNoteColumn.lua:552:function xNoteColumn.do_write_instrument_value(note_col,clear_undefined)
)
xNoteColumn.lua:559:function xNoteColumn.do_write_instrument_string(note_col,clear_undefined)
)
xNoteColumn.lua:569:function xNoteColumn.do_write_volume_value(note_col,clear_undefined)
xNoteColumn.lua:576:function xNoteColumn.do_write_volume_string(note_col,clear_undefined)
xNoteColumn.lua:586:function xNoteColumn.do_write_panning_value(note_col,clear_undefined)
xNoteColumn.lua:593:function xNoteColumn.do_write_panning_string(note_col,clear_undefined)
xNoteColumn.lua:603:function xNoteColumn.do_write_delay_value(note_col,clear_undefined)
xNoteColumn.lua:610:function xNoteColumn.do_write_delay_string(note_col,clear_undefined)
xNoteColumn.lua:620:function xNoteColumn.do_write_effect_number_value(note_col,clear_undefined)
)
xNoteColumn.lua:627:function xNoteColumn.do_write_effect_number_string(note_col,clear_undefined)
)
xNoteColumn.lua:637:function xNoteColumn.do_write_effect_amount_value(note_col,clear_undefined)
)
xNoteColumn.lua:645:function xNoteColumn.do_write_effect_amount_string(note_col,clear_undefined)
)
xNoteColumn.lua:655:function xNoteColumn.__tostring()
xOscClient.lua:27:function xOscClient.__init(...)
xOscClient.lua:70:function xOscClient.create(osc_host,osc_port)
xOscClient.lua:104:function xOscClient.trigger_instrument(note_on,instr,track,note,velocity)
)
xOscClient.lua:139:function xOscClient.trigger_midi(t)
xOscClient.lua:168:function xOscClient.trigger_auto(xmsg)
xOscClient.lua:200:function xOscClient.trigger_raw(xmsg)
xOscClient.lua:221:function xOscClient.get_osc_host()
xOscClient.lua:225:function xOscClient.set_osc_host(val)
xOscClient.lua:238:function xOscClient.get_osc_port()
xOscClient.lua:242:function xOscClient.set_osc_port(val)
xOscClient.lua:263:function xOscClient._detect_server()
xOscClient.lua:289:function xOscClient._test_idle_notifier()
xOscDevice.lua:57:function xOscDevice.__init(...)
xOscDevice.lua:134:function xOscDevice.get_active()
xOscDevice.lua:138:function xOscDevice.set_active(val)
xOscDevice.lua:155:function xOscDevice.get_name()
xOscDevice.lua:159:function xOscDevice.set_name(val)
xOscDevice.lua:170:function xOscDevice.get_prefix()
xOscDevice.lua:174:function xOscDevice.set_prefix(val)
xOscDevice.lua:186:function xOscDevice.get_address()
xOscDevice.lua:190:function xOscDevice.set_address(val)
xOscDevice.lua:204:function xOscDevice.get_port_in()
xOscDevice.lua:208:function xOscDevice.set_port_in(val)
xOscDevice.lua:227:function xOscDevice.get_port_out()
xOscDevice.lua:231:function xOscDevice.set_port_out(val)
```

```
xOscDevice.lua:251:function xOscDevice:get_callback()
xOscDevice.lua:255:function xOscDevice:set_callback(val)
xOscDevice.lua:263:function xOscDevice:get_bundling_enabled()
xOscDevice.lua:267:function xOscDevice:set_bundling_enabled(val)
xOscDevice.lua:274:function xOscDevice:get_bundle_limit()
xOscDevice.lua:278:function xOscDevice:set_bundle_limit(val)
xOscDevice.lua:287:function xOscDevice:open()
xOscDevice.lua:334:function xOscDevice:close()
xOscDevice.lua:358:function xOscDevice:_unpack_messages(message_or_bundle, messages)
xOscDevice.lua:380:function xOscDevice:socket_error(error_message)
xOscDevice.lua:391:function xOscDevice:socket_message(socket, binary_data)
xOscDevice.lua:440:function xOscDevice:send(xmsg)
xOscDevice.lua:473:function xOscDevice:send_bundle()
xOscDevice.lua:488:function xOscDevice:on_idle()
xOscDevice.lua:508:function xOscDevice:__tostring()
xOscMessage.lua:26:function xOscMessage:__init(...)
xOscMessage.lua:63:function xOscMessage:get_device_name()
xOscMessage.lua:67:function xOscMessage:set_device_name(val)
xOscMessage.lua:78:function xOscMessage:create_raw_message()
xOscMessage.lua:96:function xOscMessage:get_definition()
xOscMessage.lua:108:function xOscMessage:__tostring()
xOscPattern.lua:51:function xOscPattern:__init(...)
xOscPattern.lua:126:function xOscPattern:get_pattern_in()
xOscPattern.lua:130:function xOscPattern:set_pattern_in(val)
xOscPattern.lua:144:function xOscPattern:get_pattern_out()
xOscPattern.lua:148:function xOscPattern:set_pattern_out(val)
xOscPattern.lua:163:function xOscPattern:get_arg_names()
xOscPattern.lua:172:function xOscPattern:set_arg_names(val)
xOscPattern.lua:182:function xOscPattern:get_complete()
xOscPattern.lua:199:function xOscPattern:match(msg)
xOscPattern.lua:258:function xOscPattern:parse_input_pattern()
xOscPattern.lua:317:function xOscPattern:parse_output_pattern()
xOscPattern.lua:348:function xOscPattern:purely_literal()
xOscPattern.lua:370:function xOscPattern:generate(args)
xOscPattern.lua:405:function xOscPattern:interpret_literal(str, force_strict)
xOscPattern.lua:426:function xOscPattern:__tostring()
xOscPattern.lua:445:function xOscPattern.test_pattern(str_pattern)
xOscPattern.lua:482:function xOscPattern.types_are_matching(this,that)
xOscRouter.lua:22:function xOscRouter:__init(...)
xOscRouter.lua:39:function xOscRouter:get_patterns()
xOscRouter.lua:43:function xOscRouter:set_patterns(val)
xOscRouter.lua:55:function xOscRouter:input(osc_msg)
xOscRouter.lua:97:function xOscRouter:add_pattern(patt)
xOscRouter.lua:114:function xOscRouter:replace_pattern(patt,idx)
xOscRouter.lua:121:function xOscRouter:remove_pattern(idx)
xOscRouter.lua:129:function xOscRouter:remove_from_cache(idx)
xOscValue.lua:48:function xOscValue:__init(...)
xOscValue.lua:61:function xOscValue:get_tag()
xOscValue.lua:65:function xOscValue:set_tag(val)
xOscValue.lua:72:function xOscValue:__tostring()
xParameterAutomation.lua:41:function xParameterAutomation.cut(param,seq_range,track_idx,device_idx,yield_at)
xParameterAutomation.lua:62:function xParameterAutomation.copy(param,seq_range,track_idx,device_idx,yield_at)
xParameterAutomation.lua:126:function xParameterAutomation.clear(param,seq_range,track_idx)
xParameterAutomation.lua:163:function xParameterAutomation.paste(envelope,apply_mode,param,seq_range,track_idx,yield_at)
xParameterAutomation.lua:247:function xParameterAutomation._clear_impl(trk_auto,seq_range,seq_idx,patt_num_lines)
xParameter.lua:27:function xParameter.set_value(param,val,mode,val_min,val_max,msg_type)
xParameter.lua:154:function xParameter.increment_value(param,val)
xParameter.lua:168:function xParameter.decrement_value(param,val)
xPatternPos.lua:29:function xPatternPos.restrict_line_index(line_idx)
xPatternPos.lua:40:function xPatternPos.jump_to_line(line_idx)
xPatternPos.lua:49:function xPatternPos.jump_to_previous_line()
xPatternPos.lua:59:function xPatternPos.jump_to_next_line()
xPatternPos.lua:69:function xPatternPos.jump_to_last_line()
xPatternPos.lua:78:function xPatternPos.jump_to_next_page()
xPatternPos.lua:88:function xPatternPos.jump_to_previous_page()
```



```
xPatternPos.lua:98:function xPatternPos.jump_to_first_quarter_row()
xPatternPos.lua:107:function xPatternPos.jump_to_second_quarter_row()
xPatternPos.lua:116:function xPatternPos.jump_to_third_quarter_row()
xPatternPos.lua:125:function xPatternPos.jump_to_fourth_quarter_row()
xPatternPos.lua:135:function xPatternPos.get_previous_line()
xPatternPos.lua:172:function xPatternPos.get_next_line()
xPatternSelection.lua:34:function xPatternSelection.get_pattern_track(seq_idx,trk_idx)
xPatternSelection.lua:63:function xPatternSelection.get_pattern_column(seq_idx,trk_idx,col_idx)
xPatternSelection.lua:79:function xPatternSelection.get_pattern_if_single_track()
xPatternSelection.lua:105:function xPatternSelection.get_column_in_track(seq_idx,trk_idx,col_idx)
xPatternSelection.lua:127:function xPatternSelection.get_group_in_pattern(seq_idx,trk_idx)
xPatternSelection.lua:139:function xPatternSelection.is_single_column(patt_sel)
xPatternSelection.lua:152:function xPatternSelection.is_single_track(patt_sel)
xPatternSelection.lua:164:function xPatternSelection.includes_note_columns(patt_sel)
xPatternSelection.lua:179:function xPatternSelection.spans_entire_line(patt_sel,number_of_columns)
xPatternSequencer.lua:20:function xPatternSequencer.within_bounds(seq_idx)
xPatternSequencer.lua:38:function xPatternSequencer.switch_to_sequence(pos)
xPatternSequencer.lua:116:function xPatternSequencer.loop_current_section()
xPatternSequencer.lua:126:function xPatternSequencer.loop_section_by_index(section_index)
xPatternSequencer.lua:187:function xPatternSequencer.gather_section_positions()
xPatternSequencer.lua:201:function xPatternSequencer.get_section_index_by_seq_pos(seq_pos)
xPatternSequencer.lua:220:function xPatternSequencer.set_scheduled_section(section_index)
xPatternSequencer.lua:231:function xPatternSequencer.get_playing_pattern()
xPatternSequencer.lua:243:function xPatternSequencer.get_number_of_lines(seq_idx)
xPatternSequencer.lua:260:function xPatternSequencer.get_pattern_at_index(seq_idx)
xPatternSequencer.lua:274:function xPatternSequencer.goto_previous()
xPatternSequencer.lua:285:function xPatternSequencer.goto_next()
xPersistentSettings.lua:20:function xPersistentSettings.store(arr,token_start,token_end,instr)
xPersistentSettings.lua:72:function xPersistentSettings.retrieve(token_start,token_end,instr)
xPersistentSettings.lua:115:function xPersistentSettings.test(token_start,token_end,instr)
xPersistentSettings.lua:146:function xPersistentSettings.clear(token_start,token_end,instr)
xPersistentSettings.lua:193:function xPersistentSettings._obtain_source(instr)
xPersistentSettings.lua:202:function xPersistentSettings._update_source(t,instr)
xPhrase.lua:184:function xPhrase.replace_sample_index(phrase,idx_from,idx_to)
xPhrase.lua:218:function xPhrase.get_line_from_cursor(phrase,trigger_pos,cursor_pos,line_of_fset,notecol)
xPhrase.lua:296:function xPhrase.note_is_keymapped(note,instr)
xPhrase.lua:312:function xPhrase.clear_foreign_commands(phrase)
xPhrase.lua:351:function xPhrase.stringify(phrase)
xPhrase.lua:371:function xPhrase.apply_to_track(options)
xPhrase.lua:661:function xPhrase.export_preset(folder,instr_idx,phrase_idx,overwrite,prefix)
xPhrase.lua:698:function xPhrase.get_preset_filepath(folder,phrase,phrase_idx)
xPhrase.lua:718:function xPhrase.get_raw_preset_name(str)
xPhrase.lua:732:function xPhrase.set_property(phrase,key,val)
xPhraseManager.lua:41:function xPhraseManager.get_available_slot(instr_idx,keymap_range,keymap_offset)
xPhraseManager.lua:138:function xPhraseManager.get_empty_slot(instr_idx,keymap_offset)
xPhraseManager.lua:196:function xPhraseManager.auto_insert_phrase(instr_idx,insert_at_idx,takeover,keymap_args)
xPhraseManager.lua:283:function xPhraseManager.select_previous_phrase()
xPhraseManager.lua:301:function xPhraseManager.can_select_previous_phrase()
xPhraseManager.lua:317:function xPhraseManager.set_selected_phrase_by_mapping_index(idx)
xPhraseManager.lua:339:function xPhraseManager.select_next_phrase()
xPhraseManager.lua:359:function xPhraseManager.can_select_next_phrase()
xPhraseManager.lua:376:function xPhraseManager.select_next_phrase_mapping()
xPhraseManager.lua:411:function xPhraseManager.select_previous_phrase_mapping()
xPhraseManager.lua:447:function xPhraseManager.set_selected_phrase(idx)
xPhraseManager.lua:461:function xPhraseManager.select_first_phrase()
xPhraseManager.lua:478:function xPhraseManager.select_last_phrase()
xPhraseManager.lua:494:function xPhraseManager.get_phrase_index_by_mapping_index(instr_idx,mapping_idx)
xPhraseManager.lua:518:function xPhraseManager.get_mapping_index_by_phrase_index(instr_idx,phrase_idx)
```

```
xPhraseManager.lua:546:function xPhraseManager.set_universal_property(instr_idx,phrase_idx,prop_name,prop_value)
xPhraseManager.lua:583:function xPhraseManager.delete_selected_phrase()
xPhraseManager.lua:598:function xPhraseManager.delete_selected_phrase_mapping()
xPhraseManager.lua:612:function xPhraseManager.get_selected_mapping()
xPhraseManager.lua:626:function xPhraseManager.get_selected_mapping_index()
xPhraseManager.lua:649:function xPhraseManager.set_playback_mode(mode,toggle)
xPhraseManager.lua:675:function xPhraseManager.cycle_playback_mode()
xPhraseManager.lua:704:function xPhraseManager.find_duplicates(instr)
xPhraseManager.lua:734:function xPhraseManager.export_presets(folder,instr_idx,indices,overwrite,prefix)
xPhraseManager.lua:762:function xPhraseManager.import_presets(files,instr_idx,insert_at_idx,takeover,keymap_args,remove_prefix)
xPhraseSelection.lua:31:function xPhraseSelection.get_phrase()
xPlayPos.lua:43:function xPlayPos:__init()
xPlayPos.lua:79:function xPlayPos:get_line()
xPlayPos.lua:85:function xPlayPos:get_sequence()
xPlayPos.lua:94:function xPlayPos:update()
xPlayPos.lua:101:function xPlayPos:set(pos)
xPlayPos.lua:117:function xPlayPos:__call()
xPlayPos.lua:127:function xPlayPos.get(pos,beats)
xPlayPos.lua:150:function xPlayPos.has_changed(pos)
xPlayPos.lua:158:function xPlayPos.maintain_position(pos)
xPlayPos.lua:187:function xPlayPos.__tostring()
xRule.lua:274:function xRule:__init(def)
xRule.lua:625:function xRule.get_name()
xRule.lua:629:function xRule.set_name(val)
xRule.lua:641:function xRule.get_midi_enabled()
xRule.lua:645:function xRule.set_midi_enabled(val)
xRule.lua:656:function xRule.get_values()
xRule.lua:665:function xRule.get_match_any()
xRule.lua:669:function xRule.set_match_any(val)
xRule.lua:690:function xRule.serialize()
xRule.lua:714:function xRule.match(xmsg,xrules,ruleset_idx)
xRule.lua:749:function xRule.fix_conditions()
xRule.lua:805:function xRule.compile()
xRule.lua:1013:function xRule.get_value_index(str)
xRuleset.lua:39:function xRuleset:__init(xrules,ruleset_def)
xRuleset.lua:104:function xRuleset.get_name()
xRuleset.lua:108:function xRuleset.set_name(val)
xRuleset.lua:118:function xRuleset.get_description()
xRuleset.lua:123:function xRuleset.set_description(val)
xRuleset.lua:134:function xRuleset.get_osc_enabled()
xRuleset.lua:138:function xRuleset.set_osc_enabled(val)
xRuleset.lua:148:function xRuleset.get_manage_voices()
xRuleset.lua:152:function xRuleset.set_manage_voices(val)
xRuleset.lua:163:function xRuleset.get_modified()
xRuleset.lua:167:function xRuleset.set_modified(val)
xRuleset.lua:173:function xRuleset.get_active()
xRuleset.lua:177:function xRuleset.set_active(val)
xRuleset.lua:183:function xRuleset.get_selected_rule_index()
xRuleset.lua:187:function xRuleset.set_selected_rule_index(val)
xRuleset.lua:194:function xRuleset.get_file_path()
xRuleset.lua:198:function xRuleset.set_file_path(val)
xRuleset.lua:206:function xRuleset.add_rule(rule_def,idx)
xRuleset.lua:231:function xRuleset.rename(new_name)
xRuleset.lua:259:function xRuleset.remove_rule(idx)
xRuleset.lua:279:function xRuleset.get_rule_name(rule_idx)
xRuleset.lua:296:function xRuleset.get_rule_by_name(str_name)
xRuleset.lua:318:function xRuleset.match_message(xmsg,ruleset_idx,rule_idx,force_midi)
xRuleset.lua:349:function xRuleset.compile()
xRuleset.lua:366:function xRuleset.parse_definition(ruleset_def)
xRuleset.lua:392:function xRuleset.load_definition(file_path)
xRuleset.lua:434:function xRuleset.serialize()
xRuleset.lua:469:function xRuleset.save_definition(file_path)
xRuleset.lua:487:function xRuleset.attach_to_rule(rule_idx)
xRuleset.lua:498:function xRuleset.__tostring()
xRuleset.lua:518:function xRuleset.looks_like_definition(str_def)
xRuleset.lua:534:function xRuleset.get_suggested_name(str_name)
```

```
xRuleset.lua:550:function xRuleset.get_normalized_file_path(str_name)
xRules.lua:48:function xRules:__init(...)
xRules.lua:141:function xRules:get_active()
xRules.lua:145:function xRules:set_active(val)
xRules.lua:151:function xRules:get_selected_ruleset_index()
xRules.lua:156:function xRules:set_selected_ruleset_index(val)
xRules.lua:163:function xRules:get_selected_ruleset()
xRules.lua:169:function xRules:get_selected_rule()
xRules.lua:179:function xRules:get_selected_rule_index()
xRules.lua:189:function xRules:set_selected_rule_index(val)
xRules.lua:204:function xRules:input_midi(midi_msg,port_name)
xRules.lua:219:function xRules:input_sysex(sysex_msg,port_name)
xRules.lua:238:function xRules:input_osc(osc_msg,device)
xRules.lua:284:function xRules:match_message(xmsg,ruleset_idx,rule_idx,force_midi)
xRules.lua:318:function xRules:transmit(out,xmsg_in,ruleset_idx,rule_idx)
xRules.lua:382:function xRules:remove_osc_patterns(ruleset_idx,rule_idx)
xRules.lua:415:function xRules:maintain_osc_pattern_map(args,route_idx)
xRules.lua:440:function xRules:add_osc_patterns(ruleset_idx)
xRules.lua:455:function xRules:register_with_osc_router(osc_pattern,ruleset_idx,rule_idx)
xRules.lua:472:function xRules:load_ruleset(file_path,idx)
xRules.lua:510:function xRules:toggle_ruleset(ruleset_idx)
xRules.lua:526:function xRules:add_ruleset(ruleset_def,ruleset_idx)
xRules.lua:583:function xRules:remove_ruleset(idx)
xRules.lua:607:function xRules:replace_ruleset(file_path,idx)
xRules.lua:624:function xRules:save_ruleset()
xRules.lua:642:function xRules:revert_ruleset()
xRules.lua:658:function xRules:open_midi_input(port_name)
xRules.lua:700:function xRules:close_midi_input(port_name)
xRules.lua:715:function xRules:open_midi_output(port_name)
xRules.lua:731:function xRules:close_midi_output(port_name)
xRules.lua:749:function xRules:add_osc_device(device)
xRules.lua:785:function xRules:remove_osc_device(device_idx)
xRules.lua:797:function xRules:set_osc_device_property(device_name,key,value)
xRules.lua:810:function xRules:get_unique_osc_device_name(str_name,count)
xRules.lua:835:function xRules:get_ruleset_by_name(str_name)
xSampleBuffer.lua:98:function xSampleBuffer:__init(...)
xSampleBuffer.lua:112:function xSampleBuffer:get_default_properties()
xSampleBuffer.lua:128:function xSampleBuffer.select_all(buffer)
xSampleBuffer.lua:137:function xSampleBuffer.get_selection_range(buffer)
xSampleBuffer.lua:146:function xSampleBuffer.right_is_selected(buffer)
xSampleBuffer.lua:155:function xSampleBuffer.left_is_selected(buffer)
xSampleBuffer.lua:163:function xSampleBuffer.selection_toggle_right(buffer)
xSampleBuffer.lua:174:function xSampleBuffer.selection_toggle_left(buffer)
xSampleBuffer.lua:189:function xSampleBuffer.mod_fn_shaped(fn)
xSampleBuffer.lua:212:function xSampleBuffer.copy_fn_fn(buffer,rough,sel_start,sel_end)
xSampleBuffer.lua:245:function xSampleBuffer.wave2tbl(...)
xSampleBuffer.lua:280:function xSampleBuffer.get_bit_depth(buffer)
xSampleBuffer.lua:340:function xSampleBuffer.bits_to_xbits(num_bits)
xSampleBuffer.lua:359:function xSampleBuffer.get_channel_info(buffer)
xSampleBuffer.lua:425:function xSampleBuffer.detect_leading_trailing_silence(buffer,channels,threshold)
xSampleBuffer.lua:483:function xSampleBuffer.is_silent(buffer,channels)
xSampleBuffer.lua:523:function xSampleBuffer.set_buffer_selection(buffer,sel_start,sel_end)
xSampleBuffer.lua:545:function xSampleBuffer.get_offset_indices(num_frames)
xSampleBuffer.lua:570:function xSampleBuffer.get_nearest_offset(num_frames,offset,reverse)
xSampleBuffer.lua:583:function xSampleBuffer.get_next_offset(num_frames,offset)
xSampleBuffer.lua:597:function xSampleBuffer.get_previous_offset(num_frames,offset)
xSampleBuffer.lua:612:function xSampleBuffer.get_offset_by_frame(buffer,frame)
xSampleBuffer.lua:643:function xSampleBuffer.get_frame_by_offset(buffer,offset)
xSampleBuffer.lua:678:function xSampleBuffer.get_frame_by_line(buffer,line,lpb,bpm)
xSampleBuffer.lua:701:function xSampleBuffer.get_frame_by_beat(buffer,beat,lpb,bpm)
xSampleBuffer.lua:719:function xSampleBuffer.get_beat_by_frame(buffer,frame,bpm)
xSampleBuffer.lua:739:function xSampleBuffer.get_line_by_frame(buffer,frame,lpb,bpm)
xSampleBuffer.lua:754:function xSampleBuffer.parse_processing_args(...)
xSampleBuffer.lua:786:function xSampleBuffer.create_wave_fn(...)
xSampleBuffer.lua:820:function xSampleBuffer.extend(...)
xSampleBuffer.lua:856:function xSampleBuffer.sweep_ins(...)
xSampleBuffer.lua:871:function xSampleBuffer.ins_in_all_ch(...)
xSampleBuffer.lua:898:function xSampleBuffer.ins_in_one_ch(...)
```

```
xSampleBuffer.lua:945:function xSampleBuffer.get_frame_generator_fn(
xSampleBuffer.lua:965:function xSampleBuffer.empty_smple(...)
xSampleBuffer.lua:985:function xSampleBuffer.trim(...)
xSampleBuffer.lua:1010:function xSampleBuffer.sync_del(...)
xSampleBuffer.lua:1027:function xSampleBuffer.del_in_all_ch(...)
xSampleBuffer.lua:1057:function xSampleBuffer.del_in_one_ch(...)
xSampleBuffer.lua:1104:function xSampleBuffer.phase_shift(...)
xSampleBuffer.lua:1175:function xSampleBuffer.set_fade(...)
xSampleBufferOperation.lua:69:function xSampleBufferOperation.run(args)
xSampleBufferOperation.lua:99:function xSampleBufferOperation._prepare(args)
xSampleBufferOperation.lua:166:function xSampleBufferOperation._finalize(args,temp)
xSample.lua:40:function xSample.get_display_name(sample,sample_idx)
xSample.lua:55:function xSample.set_loop_all(sample,loop_mode)
xSample.lua:69:function xSample.is_fully_looped(sample)
xSample.lua:84:function xSample.set_loop_pos(sample,start_pos,end_pos)
xSample.lua:119:function xSample.set_loop_to_selection(sample,loop_mode)
xSample.lua:133:function xSample.clear_loop(sample)
xSample.lua:147:function xSample.get_sample_buffer(sample)
xSample.lua:166:function xSample.convert_sample(instr_idx,sample_idx,args,callback)
xSample.lua:266:function xSample.get_name_tokens(str)
xSample.lua:355:function xSample.get_buffer_frame_by_notepos(sample,trigger_pos,end_pos,ignore_sxx)
xSample.lua:406:function xSample.get_t_transposed_frame(note_value,frame,sample)
xSample.lua:425:function xSample.get_t_transposed_note(played_note,sample)
xSample.lua:437:function xSample.get_beatsynced_note(bpm,sample)
xSampleMapping.lua:33:function xSampleMapping.__init(...)
xSampleMapping.lua:54:function xSampleMapping.__tostring()
xSampleMapping.lua:73:function xSampleMapping.within_note_range(note,mapping)
xSampleMapping.lua:81:function xSampleMapping.has_full_note_range(mapping)
xScale.lua:95:function xScale.restrict_to_scale(note_value,scale_idx_or_name,scale_key)
xScale.lua:139:function xScale.get_shifted_keys(scale,key)
xScale.lua:166:function xScale.get_scale_by_name(name)
xScale.lua:182:function xScale.get_scale_index_by_name(name)
xScale.lua:198:function xScale.get_scales_with_count(count)
xScale.lua:215:function xScale.get_selected_scale()
xScale.lua:229:function xScale.get_selected_key()
xSequencerSelection.lua:42:function xSequencerSelection.get_selected_range()
xSequencerSelection.lua:64:function xSequencerSelection.get_selected_range_length()
xSequencerSelection.lua:75:function xSequencerSelection.get_entire_range()
xSequencerSelection.lua:92:function xSequencerSelection.get_selected_index()
xSequencerSelection.lua:109:function xSequencerSelection.get_pattern_selection()
xSequencerSelection.lua:132:function xSequencerSelection.within_range(seq_range,songpos)
xSequencerSelection.lua:164:function xSequencerSelection.pluck_from_range(seq_range,seq_idx,patt_num_lines)
xSequencerSelection.lua:194:function xSequencerSelection.get_number_of_lines(seq_range)
xSequencerSelection.lua:219:function xSequencerSelection.shift_by_indices(seq_range,offset)
xSequencerSelection.lua:241:function xSequencerSelection.shift_forward(seq_range)
xSequencerSelection.lua:266:function xSequencerSelection.shift_backward(seq_range)
xSequencerSelection.lua:291:function xSequencerSelection.apply_to_pattern(seq_range)
xSongPos.lua:70:function xSongPos.create(pos)
xSongPos.lua:81:function xSongPos.get_defaults()
xSongPos.lua:93:function xSongPos.set_defaults(val)
xSongPos.lua:107:function xSongPos.normalize(pos,bounds_mode,loop_boundary,block_boundary)
xSongPos.lua:136:function xSongPos.increase_by_lines(num_lines,pos,bounds_mode,loop_boundary,block_boundary)
xSongPos.lua:230:function xSongPos.decrease_by_lines(num_lines,pos,bounds_mode,loop_boundary,block_boundary)
xSongPos.lua:324:function xSongPos.next_beat(pos,bounds_mode,loop_boundary,block_boundary)
xSongPos.lua:346:function xSongPos.next_bar(pos,bounds_mode,loop_boundary,block_boundary)
xSongPos.lua:369:function xSongPos.next_block(pos,bounds_mode,loop_boundary,block_boundary)
xSongPos.lua:391:function xSongPos.next_pattern(pos,bounds_mode,loop_boundary,block_boundary)
xSongPos.lua:417:function xSongPos.enforce_boundary(direction,pos,bounds_mode,loop_boundary,block_boundary)
xSongPos.lua:511:function xSongPos.enforce_block_boundary(direction,pos,line_delta,boundary)
xSongPos.lua:565:function xSongPos.get_line_diff(pos1,pos2)
xSongPos.lua:601:function xSongPos.less_than(pos1,pos2)
xSongPos.lua:611:function xSongPos.equal(pos1,pos2)
```

```
xSongPos.lua:621:function xSongPos.less_than_or_equal(pos1,pos2)
xStreamBuffer.lua:70:function xStreamBuffer:__init(xpos)
xStreamBuffer.lua:140:function xStreamBuffer:get_automation_playmode()
xStreamBuffer.lua:144:function xStreamBuffer:set_automation_playmode(val)
xStreamBuffer.lua:150:function xStreamBuffer:get_track_index()
xStreamBuffer.lua:154:function xStreamBuffer:set_track_index(val)
xStreamBuffer.lua:160:function xStreamBuffer:get_include_hidden()
xStreamBuffer.lua:164:function xStreamBuffer:set_include_hidden(val)
xStreamBuffer.lua:170:function xStreamBuffer:get_clear_undefined()
xStreamBuffer.lua:174:function xStreamBuffer:set_clear_undefined(val)
xStreamBuffer.lua:180:function xStreamBuffer:get_expand_columns()
xStreamBuffer.lua:184:function xStreamBuffer:set_expand_columns(val)
xStreamBuffer.lua:190:function xStreamBuffer:get_mute_mode()
xStreamBuffer.lua:194:function xStreamBuffer:set_mute_mode(val)
xStreamBuffer.lua:202:function xStreamBuffer:update_read_buffer()
xStreamBuffer.lua:226:function xStreamBuffer:_wipe_past()
xStreamBuffer.lua:241:function xStreamBuffer:wipe_futures()
xStreamBuffer.lua:254:function xStreamBuffer:clear()
xStreamBuffer.lua:278:function xStreamBuffer:_get_songpos(xinc)
xStreamBuffer.lua:291:function xStreamBuffer:schedule_line(xline,xinc)
xStreamBuffer.lua:301:function xStreamBuffer:schedule_note_column(xnotecol,col_idx,xinc)
xStreamBuffer.lua:316:function xStreamBuffer:schedule_effect_column(xeffectcol,col_idx,xinc)
)
xStreamBuffer.lua:334:function xStreamBuffer:_get_xinc()
xStreamBuffer.lua:345:function xStreamBuffer:mute()
xStreamBuffer.lua:385:function xStreamBuffer:unmute()
xStreamBuffer.lua:399:function xStreamBuffer:_create_content(num_lines,xinc)
xStreamBuffer.lua:466:function xStreamBuffer:get_output(xinc)
xStreamBuffer.lua:494:function xStreamBuffer:set_buffer(xinc,xline)
xStreamBuffer.lua:510:function xStreamBuffer:read_from_pattern(xinc,pos)
xStreamBuffer.lua:545:function xStreamBuffer:immediate_output()
xStreamBuffer.lua:566:function xStreamBuffer:write_output(pos,xinc,num_lines,live_mode)
xStreamBuffer.lua:644:function xStreamBuffer:write_line(xline,pos,phrase,patt_num_lines)
xStreamBuffer.lua:699:function xStreamBuffer:resolve_automation(seq_idx)
xStreamPos.lua:44:function xStreamPos:__init()
xStreamPos.lua:95:function xStreamPos:start(playmode)
xStreamPos.lua:112:function xStreamPos:reset()
xStreamPos.lua:127:function xStreamPos:_increase_by(lines)
xStreamPos.lua:136:function xStreamPos:_decrease_by(lines)
xStreamPos.lua:149:function xStreamPos:_set_pos(pos)
xStreamPos.lua:288:function xStreamPos:update()
xStreamPos.lua:313:function xStreamPos:get_scheduled_pos(schedule)
xStreamPos.lua:351:function xStreamPos:attach_to_song()
xStreamPos.lua:375:function xStreamPos.determine_writeahead()
xStreamPos.lua:386:function xStreamPos:__tostring()
xTrack.lua:21:function xTrack.get_master_track_index()
xTrack.lua:35:function xTrack.get_master_track()
xTrack.lua:50:function xTrack.get_send_track(send_index)
xTrack.lua:65:function xTrack:any_track_is_soloed()
xTrack.lua:83:function xTrack.get_tracks_by_type(track_type)
xTrack.lua:102:function xTrack.get_group_track_index(track_idx,match_self)
xTrack.lua:125:function xTrack.get_first_sequencer_track_in_group(track_idx)
xTrack.lua:146:function xTrack.determine_track_type(track_idx)
xTrack.lua:167:function xTrack.jump_to_next_sequencer_track(track_idx,wrap_pattern)
xTrack.lua:177:function xTrack.get_next_sequencer_track(track_idx,wrap_pattern)
xTrack.lua:209:function xTrack.jump_to_previous_sequencer_track(track_idx,wrap_pattern)
xTrack.lua:219:function xTrack.get_previous_sequencer_track(track_idx,wrap_pattern)
xTrack.lua:250:function xTrack.jump_to_next_track(track_idx,wrap_pattern)
xTrack.lua:260:function xTrack.get_next_track(track_idx,wrap_pattern)
xTrack.lua:284:function xTrack.jump_to_previous_track(track_idx,wrap_pattern)
xTrack.lua:294:function xTrack.get_previous_track(track_idx,wrap_pattern)
xTrack.lua:320:function xTrack:get_pattern_track(seq_idx,trk_idx)
xTrack.lua:341:function xTrack.get_selected_column_index()
xTrack.lua:359:function xTrack.set_selected_column_index(track,col_idx)
xTrack.lua:379:function xTrack.set_column_mute(col_idx)
xTrack.lua:400:function xTrack.get_device_index(track,device)
xTransport.lua:24:function xTransport.forward()
xTransport.lua:46:function xTransport.rewind()
xTransport.lua:66:function xTransport.pause()
```

```
xTransport.lua:75:function xTransport.resume()
xTransport.lua:85:function xTransport.restart()
xTransport.lua:95:function xTransport.toggle_loop()
xTransport.lua:104:function xTransport.toggle_record()
xTransport.lua:114:function xTransport.pattern_is_looped()
xValue.lua:21:function xValue:__init(...)
xValue.lua:45:function xValue:get_value()
xValue.lua:48:function xValue:set_value(val)
xValue.lua:54:function xValue:get_max()
xValue.lua:57:function xValue:set_max(val)
xValue.lua:63:function xValue:get_min()
xValue.lua:66:function xValue:set_min(val)
xValue.lua:72:function xValue:get_name()
xValue.lua:75:function xValue:set_name(val)
xValue.lua:81:function xValue:__tostring()
xVoiceManager.lua:113:function xVoiceManager:__init(...)
xVoiceManager.lua:177:function xVoiceManager:get_voice_limit()
xVoiceManager.lua:181:function xVoiceManager:set_voice_limit(val)
xVoiceManager.lua:196:function xVoiceManager:get_duration()
xVoiceManager.lua:200:function xVoiceManager:set_duration(val)
xVoiceManager.lua:206:function xVoiceManager:get_column_allocation()
xVoiceManager.lua:210:function xVoiceManager:set_column_allocation(val)
xVoiceManager.lua:216:function xVoiceManager:get_follow_track()
xVoiceManager.lua:220:function xVoiceManager:set_follow_track(val)
xVoiceManager.lua:226:function xVoiceManager:get_follow_instrument()
xVoiceManager.lua:230:function xVoiceManager:set_follow_instrument(val)
xVoiceManager.lua:236:function xVoiceManager:get_follow_octave()
xVoiceManager.lua:240:function xVoiceManager:set_follow_octave(val)
xVoiceManager.lua:251:function xVoiceManager:input_message(xmsg)
xVoiceManager.lua:306:function xVoiceManager:input_note_column(xnotecol,col_idx,line_idx)
xVoiceManager.lua:337:function xVoiceManager:release_all()
xVoiceManager.lua:349:function xVoiceManager:release_all_instrument(instr_idx)
xVoiceManager.lua:362:function xVoiceManager:release_all_track(track_idx)
xVoiceManager.lua:375:function xVoiceManager:release(voice_idx)
xVoiceManager.lua:394:function xVoiceManager:get_voice_index(xmsg)
xVoiceManager.lua:463:function xVoiceManager:get_available_columns(track_idx)
xVoiceManager.lua:478:function xVoiceManager:_steal_voice()
xVoiceManager.lua:496:function xVoiceManager:_attach_to_song()
xVoiceManager.lua:533:function xVoiceManager:get_by_pitch(pitch)
xVoiceManager.lua:550:function xVoiceManager:get_higher(idx)
xVoiceManager.lua:576:function xVoiceManager:get_highest()
xVoiceManager.lua:595:function xVoiceManager:get_lower(idx)
xVoiceManager.lua:620:function xVoiceManager:get_lowest()
xVoiceManager.lua:640:function xVoiceManager:_register(xmsg)
xVoiceManager.lua:696:function xVoiceManager:_check_expired()
xVoiceRunner.lua:54:function xVoiceRunner:__init(...)
xVoiceRunner.lua:161:function xVoiceRunner:reset()
xVoiceRunner.lua:173:function xVoiceRunner:purge_voices()
xVoiceRunner.lua:188:function xVoiceRunner:collect(ptrack_or_phrase,collect_mode,selection,
trk_idx,seq_idx)
xVoiceRunner.lua:539:function xVoiceRunner:collect_at_cursor()
xVoiceRunner.lua:565:function xVoiceRunner:collect_above_cursor()
xVoiceRunner.lua:605:function xVoiceRunner:collect_below_cursor()
xVoiceRunner.lua:650:function xVoiceRunner:detect_run_condition(notecol,col_idx,vol_visible
,pan_visible,from_pattern)
xVoiceRunner.lua:744:function xVoiceRunner:detect_run_length(ptrack_or_phrase,col_idx,start
_line,end_line,vol_visible,pan_visible)
xVoiceRunner.lua:796:function xVoiceRunner:resolve_notecol(col_idx,line_idx)
xVoiceRunner.lua:815:function xVoiceRunner:merge_columns(ptrack_or_phrase,selection,trk_idx
,seq_idx)
xVoiceRunner.lua:877:function xVoiceRunner.shorten_run(voice_run,num_lines)
xVoiceRunner.lua:899:function xVoiceRunner.write(ptrack_or_phrase,selection,trk_idx)
xVoiceRunner.lua:1016:function xVoiceRunner.get_voice_run_selection(vrun,trk_idx,col_idx)
xVoiceRunner.lua:1047:function xVoiceRunner.has_room(voice_runs,line_start,col_idx,num_line
s)
xVoiceRunner.lua:1079:function xVoiceRunner.in_range(voice_runs,line_start,line_end,args)
xVoiceRunner.lua:1155:function xVoiceRunner.get_runs_on_line(voice_runs,line_idx)
xVoiceRunner.lua:1181:function xVoiceRunner.create_voice(voice_run,col_idx,run_idx,line_idx
)
```

```
xVoiceRunner.lua:1205:function xVoiceRunner.get_initial_notecol(voice_run)
xVoiceRunner.lua:1221:function xVoiceRunner.get_open_run(run_col,line_start)
xVoiceRunner.lua:1243:function xVoiceRunner.get_higher_notes_in_column(run_col,note_val)
xVoiceRunner.lua:1269:function xVoiceRunner.get_most_recent_run_index(run_col,line_idx)
xVoiceRunner.lua:1305:function xVoiceRunner.get_high_low_note_values(run_col,line_start,lin
e_end)
xVoiceRunner.lua:1345:function xVoiceRunner.get_column_start_end_line(run_col)
xVoiceRunner.lua:1369:function xVoiceRunner.get_final_notecol_info(voice_run,respect_visibi
lity,vol_visible,pan_visible)
xVoiceRunner.lua:1384:function xVoiceRunner.get_notecol_info(notecol,respect_visibility,vol
_visible,pan_visible)
xVoiceRunner.lua:1434:function xVoiceRunner.terminate_note(notecol,reveal_subcolumns,vol_vi
sible,pan_visible,dly_visible,track_or_phrase)
xVoiceSorter.lua:53:function xVoiceSorter:__init(...)
xVoiceSorter.lua:109:function xVoiceSorter:reset()
xVoiceSorter.lua:126:function xVoiceSorter:sort(ptrack_or_phrase,selection,trk_idx,seq_idx)
xVoiceSorter.lua:305:function xVoiceSorter:sort_line_runs(t,line_idx)
xVoiceSorter.lua:337:function xVoiceSorter:sort_by_note(line_runs,line_idx)
xVoiceSorter.lua:395:function xVoiceSorter:find_note_column(note_value,line_idx,num_lines)
xVoiceSorter.lua:577:function xVoiceSorter:shift_runs(note_value,source_col_idx,target_col_
idx,line_idx)
xVoiceSorter.lua:640:function xVoiceSorter:clear_temp_run(col_idx,run_idx)
xVoiceSorter.lua:659:function xVoiceSorter:remove_temp_column(col_idx)
xVoiceSorter.lua:670:function xVoiceSorter:insert_temp_column(col_idx,voice_run)
xVoiceSorter.lua:692:function xVoiceSorter:set_high_low_column(col_idx,high_note,low_note,f
orce,line_idx)
xVoiceSorter.lua:745:function xVoiceSorter:insert_note_run(col_idx,voice_run,line_idx)
xVoiceSorter.lua:778:function xVoiceSorter:sort_unique(line_runs,line_idx)
xVoiceSorter.lua:815:function xVoiceSorter:find_unique_column(notecol,line_idx,num_lines)
xVoiceSorter.lua:862:function xVoiceSorter:matches_unique_column(notecol,col_idx)
xVoiceSorter.lua:895:function xVoiceSorter:sort_compact(line_runs,line_idx)
xVoiceSorter.lua:919:function xVoiceSorter:find_compact_column(line_idx,num_lines)
xVoiceSorter.lua:941:function xVoiceSorter:__tostring()
```