

Customization of SumatraPDF

2023년 3월 4일 토요일 오전 6:33

File name and function	before	after
pdf-annot.c pdf_create_annot Make the text red and reduce font size to 9	<pre>case PDF_ANNOT_FREE_TEXT: { fz_rect text_rect = { 12, 12, 12+200, 12+100 }; /* Use undocumented Adobe property to match page rotation. */ int rot = pdf_to_int(ctx, pdf_dict_get_inheritable(ctx, page->obj, PDF_NAME(Rotate))); if (rot != 0) pdf_dict_put_int(ctx, annot->obj, PDF_NAME(Rotate), rot); pdf_set_annot_rect(ctx, annot, text_rect); pdf_set_annot_border(ctx, annot, 0); pdf_set_annot_default_appearance(ctx, annot, "Helv", 12, nelem(black), black); } break;</pre>	<pre>case PDF_ANNOT_FREE_TEXT: { fz_rect text_rect = { 12, 12, 12+200, 12+100 }; /* Use undocumented Adobe property to match page rotation. */ int rot = pdf_to_int(ctx, pdf_dict_get_inheritable(ctx, page->obj, PDF_NAME(Rotate))); if (rot != 0) pdf_dict_put_int(ctx, annot->obj, PDF_NAME(Rotate), rot); pdf_set_annot_rect(ctx, annot, text_rect); pdf_set_annot_border(ctx, annot, 0); pdf_set_annot_default_appearance(ctx, annot, "Helv", 9, nelem(red), red); } break;</pre>
EditAnnotations.cpp Annotation* EngineMupdfCreateAnnotation Remove default text from comments and remove borders	<pre>if (typ == AnnotationType::FreeText) { pdf_set_annot_contents(ctx, annot, "This is a text.."); pdf_set_annot_border(ctx, annot, 1); }</pre>	<pre>if (typ == AnnotationType::FreeText) { pdf_set_annot_contents(ctx, annot, ""); pdf_set_annot_border(ctx, annot, 0); }</pre>
pdf-appearance.c Improved Korean input issues	<pre>static void write_string(fz_context *ctx, fz_buffer *buf, fz_text_language lang, fz_font *font, const char *fontname, float size, const char *text, const char *end) { struct text_walk_state state; int last_enc = 0; init_text_walk(ctx, &state, lang, font, text, end); while (next_text_walk(ctx, &state)) { if (state.enc != last_enc) { if (last_enc) { if (last_enc < ENC_KOREAN) fz_append_byte(ctx, buf, ' '); else fz_append_byte(ctx, buf, '>'); fz_append_string(ctx, buf, " Tj\n"); } switch (state.enc) { case ENC_LATIN: fz_append_printf(ctx, buf, "%s %g Tf\n", fontname, size); break; case ENC_GREEK: fz_append_printf(ctx, buf, "%sGRK %g Tf\n", fontname, size); break; case ENC_CYRILLIC: fz_append_printf(ctx, buf, "%sCYR %g Tf\n", fontname, size); break; case ENC_KOREAN: fz_append_printf(ctx, buf, "/Batang %g Tf\n", size); break; case ENC_JAPANESE: fz_append_printf(ctx, buf, "/Mincho %g Tf\n", size); break; case ENC_HANT: fz_append_printf(ctx, buf, "/Ming %g Tf\n", size); break; case ENC_HANS: fz_append_printf(ctx, buf, "/Song %g Tf\n", size); break; } if (state.enc < ENC_KOREAN) fz_append_byte(ctx, buf, '('); else fz_append_byte(ctx, buf, '<'); last_enc = state.enc; } if (state.enc < ENC_KOREAN) { if (state.c == '(' state.c == ')' state.c == '\\') fz_append_byte(ctx, buf, '\\'); fz_append_byte(ctx, buf, state.c); } else { fz_append_printf(ctx, buf, "%04x", state.c); } } if (last_enc) { if (last_enc < ENC_KOREAN) fz_append_byte(ctx, buf, ' '); else fz_append_byte(ctx, buf, '>'); fz_append_string(ctx, buf, " Tj\n"); } }</pre>	<pre>static void write_string(fz_context *ctx, fz_buffer *buf, fz_text_language lang, fz_font *font, const char *fontname, float size, const char *text, const char *end) { struct text_walk_state state; int last_enc = 0; init_text_walk(ctx, &state, lang, font, text, end); while (next_text_walk(ctx, &state)) { if (state.text[0] == ' ' state.text[0] == '1' state.text[0] == '2' state.text[0] == '3' state.text[0] == '4' state.text[0] == '5' state.text[0] == '6' state.text[0] == '7' state.text[0] == '8' state.text[0] == '9' state.text[0] == '0' state.text[0] == '~' state.text[0] == '"' state.text[0] == '!' state.text[0] == '@' state.text[0] == '#' state.text[0] == '\$' state.text[0] == '%' state.text[0] == '^' state.text[0] == '&' state.text[0] == '*' state.text[0] == '(' state.text[0] == ')' state.text[0] == '.' state.text[0] == '-' state.text[0] == '+' state.text[0] == '=' state.text[0] == '[' state.text[0] == ']' state.text[0] == '{' state.text[0] == '}' state.text[0] == ' ' state.text[0] == ':' state.text[0] == ';' state.text[0] == ',' state.text[0] == '/' state.text[0] == '?' state.text[0] == '<' state.text[0] == '>' state.text[0] == '/' state.text[0] == '?') state.enc = ENC_LATIN; if (state.enc != last_enc) { if (last_enc) { if (last_enc < ENC_KOREAN) fz_append_byte(ctx, buf, ' '); else fz_append_byte(ctx, buf, '>'); fz_append_string(ctx, buf, " Tj\n"); } switch (state.enc) { case ENC_LATIN: fz_append_printf(ctx, buf, "%s %g Tf\n", fontname, size); break; case ENC_GREEK: fz_append_printf(ctx, buf, "%sGRK %g Tf\n", fontname, size); break; case ENC_CYRILLIC: fz_append_printf(ctx, buf, "%sCYR %g Tf\n", fontname, size); break; case ENC_KOREAN: fz_append_printf(ctx, buf, "/Batang %g Tf\n", size); break; case ENC_JAPANESE: fz_append_printf(ctx, buf, "/Mincho %g Tf\n", size); break; case ENC_HANT: fz_append_printf(ctx, buf, "/Ming %g Tf\n", size); break; case ENC_HANS: fz_append_printf(ctx, buf, "/Song %g Tf\n", size); break; } if (state.enc < ENC_KOREAN) fz_append_byte(ctx, buf, '('); else fz_append_byte(ctx, buf, '<'); last_enc = state.enc; } if (state.enc < ENC_KOREAN) { if (state.c == '(' state.c == ')' state.c == '\\') fz_append_byte(ctx, buf, '\\'); fz_append_byte(ctx, buf, state.c); } else { fz_append_printf(ctx, buf, "%04x", state.c); } } if (last_enc) { if (last_enc < ENC_KOREAN) fz_append_byte(ctx, buf, ' '); else fz_append_byte(ctx, buf, '>'); fz_append_string(ctx, buf, " Tj\n"); } }</pre>

pdf-annot.c pdf_create_annot	case PDF_ANNOT_FREE_TEXT: { fz_rect text_rect = { 12, 12, 12+200, 12+100 }; /* Use undocumented Adobe property to match page rotation. */ int rot = pdf_to_int(ctx, pdf_dict_get_inheritable(ctx, page->obj, PDF_NAME(Rotate))); if (rot != 0) pdf_dict_put_int(ctx, annot->obj, PDF_NAME(Rotate), rot); pdf_set_annot_rect(ctx, annot, text_rect); pdf_set_annot_border(ctx, annot, 0); pdf_set_annot_default_appearance(ctx, annot, "Helv", 9, nelelem(red), red); } break;	} case PDF_ANNOT_FREE_TEXT: { fz_rect text_rect = { 12, 12, 12+300, 12+30 }; /* Use undocumented Adobe property to match page rotation. */ int rot = pdf_to_int(ctx, pdf_dict_get_inheritable(ctx, page->obj, PDF_NAME(Rotate))); if (rot != 0) pdf_dict_put_int(ctx, annot->obj, PDF_NAME(Rotate), rot); pdf_set_annot_rect(ctx, annot, text_rect); pdf_set_annot_border(ctx, annot, 0); pdf_set_annot_default_appearance(ctx, annot, "Helv", 9, nelelem(red), red); } break;
pdf-font-add.c pdf_add_cjk_font() By default, the font is 'Dotum'	case FZ_ADOBE_KOREA: basefont = serif ? "Batang" : "Dotum"; encoding = wmode ? "UniKS-UTF16-V" : "UniKS-UTF16-H"; ordering = "Korea1"; supplement = 2; break;	case FZ_ADOBE_KOREA: basefont = serif ? "Dotum" : "Batang"; encoding = wmode ? "UniKS-UTF16-V" : "UniKS-UTF16-H"; ordering = "Korea1"; supplement = 2; break;
EditAnnotations DoContents Force focus to input window when creating a comment	static void DoContents(EditAnnotationsWindow* ew, Annotation* annot) { str::Str s = Contents(annot); // TODO: don't replace if already is "\r\n" Replace(s, "\n", "\r\n"); ew->editContents->SetText(s.Get()); ew->staticContents->SetIsVisible(true); ew->editContents->SetIsVisible(true); }	static void DoContents(EditAnnotationsWindow* ew, Annotation* annot) { str::Str s = Contents(annot); // TODO: don't replace if already is "\r\n" Replace(s, "\n", "\r\n"); ew->editContents->SetText(s.Get()); ew->staticContents->SetIsVisible(true); ew->editContents->SetIsVisible(true); SetFocus(ew->editContents->hwnd); }
pdf-apperance.c → pdf_write_underline_appearance Adjust underline position	a = lerp_point(quad[LL], quad[UL], 1/7.0f); b = lerp_point(quad[LR], quad[UR], 1/7.0f);	a = lerp_point(quad[LL], quad[UL], 1/40.0f); b = lerp_point(quad[LR], quad[UR], 1/40.0f);
pdf-apperance.c → pdf_write_squiggly_appearance Adjust squiggly position	while (x < w) { x += h/7; a = lerp_point(quad[LL], quad[LR], x/w); if (up) { b = lerp_point(quad[UL], quad[UR], x/w); c = lerp_point(a, b, 1/7.0f); fz_append_printf(ctx, buf, "%g %g lWn", c.x, c.y); } else fz_append_printf(ctx, buf, "%g %g lWn", a.x, a.y); up = !up; }	while (x < w) { x += h/7; a = lerp_point(quad[LL], quad[LR], x/w-0.01f); if (up) { b = lerp_point(quad[UL], quad[UR], x/w-0.01f); c = lerp_point(a, b, 1/17.0f); fz_append_printf(ctx, buf, "%g %g lWn", c.x, c.y); } else fz_append_printf(ctx, buf, "%g %g lWn", a.x, a.y); up = !up; }
EditAnnotations.cpp EngineMupdfCreateAnnotation Copy and paste an image file into a PDF page		if (typ == AnnotationType::Caret) { // Open the clipboard, and verify that the image data is there. if (!OpenClipboard(nullptr)) return NULL; if (!IsClipboardFormatAvailable(CF_BITMAP)) { CloseClipboard(); return NULL; } } EngineMupdf* epdf = AsEngineMupdf(engine); fz_context* ctx = epdf->ctx; auto pageInfo = epdf->GetFzPageInfo(pageNo, true); ScopedCritSec cs(epdf->ctxAccess); auto page = pdf_page_from_fz_page(ctx, pageInfo->page); enum pdf_annot_type atyp = (enum pdf_annot_type)typ; auto annot = pdf_create_annot(ctx, page, atyp); pdf_set_annot_modification_date(ctx, annot, time(nullptr)); if (pdf_annot_has_author(ctx, annot)) { char* defAuthor = gGlobalPrefs->annotations.defaultAuthor; // if "(none)" we don't set it if (!str::Eq(defAuthor, "(none)")) { const char* author = getuser(); if (!str::EmptyOrWhiteSpaceOnly(defAuthor)) { author = defAuthor; } pdf_set_annot_author(ctx, annot, author); } } switch (typ) { case AnnotationType::Text: case AnnotationType::FreeText: case AnnotationType::Stamp: case AnnotationType::Caret: case AnnotationType::Square: case AnnotationType::Circle: { fz_rect trect = pdf_annot_rect(ctx, annot); float dx = trect.x1 - trect.x0; trect.x0 = pos.x; trect.x1 = trect.x0 + dx; float dy = trect.y1 - trect.y0; trect.y0 = pos.y; trect.y1 = trect.y0 + dy; }

		<pre> pdf_set_annot_rect(ctx, annot, trect); } break; case AnnotationType::Line: { fz_point a(pos.x, pos.y); fz_point b(pos.x + 100, pos.y + 50); pdf_set_annot_line(ctx, annot, a, b); } break; } if (typ == AnnotationType::FreeText) { pdf_set_annot_contents(ctx, annot, "This is a text.."); pdf_set_annot_border(ctx, annot, 0); } pdf_update_annot(ctx, annot); auto res = MakeAnnotationPdf(epdf, annot, pageNo); if (typ == AnnotationType::Text) { AutoFreeStr iconName = GetAnnotationTextIcon(); if (!strcmp(iconName, "Note")) { SetIconName(res, iconName.Get()); } auto col = GetAnnotationTextIconColor(); SetColor(res, col); } else if (typ == AnnotationType::Underline) { auto col = GetAnnotationUnderlineColor(); SetColor(res, col); } else if (typ == AnnotationType::Highlight) { auto col = GetAnnotationHighlightColor(); SetColor(res, col); } else if (typ == AnnotationType::Squiggly) { auto col = GetAnnotationSquigglyColor(); SetColor(res, col); } else if (typ == AnnotationType::StrikeOut) { auto col = GetAnnotationStrikeOutColor(); SetColor(res, col); } pdf_drop_annot(ctx, annot); if (typ == AnnotationType::Caret) { // Retrieve the bitmap handle from the clipboard. HBITMAP hBitmap = static_cast<HBITMAP>(GetClipboardData(CF_BITMAP)); if (hBitmap == nullptr) { CloseClipboard(); return NULL; } // Extract DIB data from a bitmap handle. BITMAP bm; GetObject(hBitmap, sizeof(BITMAP), &bm); int size = bm.bmWidthBytes * bm.bmHeight; unsigned char* data = new unsigned char[size]; GetBitmapBits(hBitmap, size, data); // Write the extracted DIB data to a file. std::ofstream file("clipboard_image.bmp", std::ios::binary); BITMAPFILEHEADER bmfh = {0}; bmfh.bfType = 0x4d42; // "BM" bmfh.bfOffBits = sizeof(BITMAPFILEHEADER) + sizeof(BITMAPINFOHEADER); bmfh.bfSize = bmfh.bfOffBits + size; file.write(reinterpret_cast<const char*>(&bmfh), sizeof(bmfh)); BITMAPINFOHEADER bmih = {0}; bmih.biSize = sizeof(BITMAPINFOHEADER); bmih.biWidth = bm.bmWidth; bmih.biHeight = bm.bmHeight; // Save top-down method bmih.biPlanes = 1; bmih.biBitCount = bm.bmBitsPixel; bmih.biCompression = BI_RGB; bmih.biSizeImage = size; file.write(reinterpret_cast<const char*>(&bmih), sizeof(bmih)); for (int y = bm.bmHeight - 1; y >= 0; --y) { file.write(reinterpret_cast<const char*>(data + y * bm.bmWidthBytes), bm.bmWidthBytes); } file.close(); // Clean up unused handles and data. delete[] data; CloseClipboard(); // Attaches a clipboard image to the stamp. Stamp functionality implemented in Caret fz_image* img = fz_new_image_from_file(ctx, "clipboard_image.bmp"); pdf_set_annot_stamp_image(ctx, annot, img); fz_drop_image(ctx, img); } return res; </pre>
EditAnnotations.cpp	top position	<pre> #include <iostream> #include <fstream> </pre>
pdf-annot.c pdf_create_annot Increase the size of the Caret (clipboard image)	<pre> case PDF_ANNOT_CARET: { fz_rect caret_rect = { 12, 12, 12+18, 12+15 }; pdf_set_annot_rect(ctx, annot, caret_rect); pdf_set_annot_color(ctx, annot, 3, blue); } break; </pre>	<pre> case PDF_ANNOT_CARET: { fz_rect caret_rect = { 12, 12, 12+200, 12+150 }; pdf_set_annot_rect(ctx, annot, caret_rect); pdf_set_annot_color(ctx, annot, 3, blue); } break; </pre>
pdf-annot.c pdf_dirty_annot Prevent Caret (clipboard images) from being cleared	<pre> void pdf_dirty_annot(fz_context *ctx, pdf_annot *annot) { pdf_annot_request_resynthesis(ctx, annot); } </pre>	<pre> void pdf_dirty_annot(fz_context *ctx, pdf_annot *annot) { enum pdf_annot_type ret = pdf_annot_type(ctx, annot); if (ret != PDF_ANNOT_CARET) pdf_annot_request_resynthesis(ctx, annot); } </pre>
pdf-appearance.c pdf_write_appearance	<pre> case PDF_ANNOT_CARET: pdf_write_caret_appearance(ctx, annot, buf, rect, bbox, res); </pre>	<pre> case PDF_ANNOT_CARET: //pdf_write_caret_appearance(ctx, annot, buf, rect, bbox, res); </pre>

Erases existing caret. Replace with custom stamp image	<pre> *matrix = fz_identity; break; </pre>	<pre> /*matrix = fz_identity; break; </pre>
Menu.cpp Change menu descriptions	<pre> static MenuDef menuDefCreateAnnotUnderCursor[] = { { _TRN("&Text"), CmdCreateAnnotText, }, { _TRN("&Free Text"), CmdCreateAnnotFreeText, }, { _TRN("&Stamp"), CmdCreateAnnotStamp, }, { _TRN("&Caret"), CmdCreateAnnotCaret, }, }, //{ _TRN("Ink"), CmdCreateAnnotInk, }, { _TRN("Square"), CmdCreateAnnotSquare, }, { _TRN("Circle"), CmdCreateAnnotCircle, }, { _TRN("Line"), CmdCreateAnnotLine, }, { _TRN("Polygon"), CmdCreateAnnotPolygon, }, //{ _TRN("Poly Line"), CmdCreateAnnotPolyLine, }, //{ _TRN("File Attachment"), CmdCreateAnnotFileAttachment, }, { nullptr, 0, }, }; </pre>	<pre> static MenuDef menuDefCreateAnnotUnderCursor[] = { { _TRN("&Text"), CmdCreateAnnotText, }, { _TRN("&Free Text"), CmdCreateAnnotFreeText, }, { _TRN("&Stamp"), CmdCreateAnnotStamp, }, { _TRN("&Paste Clipboard"), CmdCreateAnnotCaret, }, }, //{ _TRN("Ink"), CmdCreateAnnotInk, }, { _TRN("Square"), CmdCreateAnnotSquare, }, { _TRN("Circle"), CmdCreateAnnotCircle, }, { _TRN("Line"), CmdCreateAnnotLine, }, { _TRN("Polygon"), CmdCreateAnnotPolygon, }, //{ _TRN("Poly Line"), CmdCreateAnnotPolyLine, }, //{ _TRN("File Attachment"), CmdCreateAnnotFileAttachment, }, { nullptr, 0, }, }; </pre>
pdf-appearance.c pdf_write_free_text_appearance Resize Rect object to fit text size	<pre> pdf_write_free_text_appearance(fz_context* ctx, pdf_annot* annot, fz_buffer* buf, fz_rect* rect, fz_rect* bbox, fz_matrix* matrix, pdf_obj** res) { const char* font; float size, color[4]; const char* text; float w, h, t, b; int q, r, n; int lang; /* /Rotate is an undocumented annotation property supported by Adobe */ text = pdf_annot_contents(ctx, annot); r = pdf_dict_get_int(ctx, annot->obj, PDF_NAME(Rotate)); q = pdf_annot_quadding(ctx, annot); pdf_annot_default_appearance(ctx, annot, &font, &size, &n, color); lang = pdf_annot_language(ctx, annot); w = rect->x1 - rect->x0; h = rect->y1 - rect->y0; if (r == 90 r == 270) t = h, h = w, w = t; *matrix = fz_rotate(r); *bbox = fz_make_rect(0, 0, w, h); pdf_write_opacity(ctx, annot, buf, res); pdf_write_dash_pattern(ctx, annot, buf, res); if (pdf_write_fill_color_appearance(ctx, annot, buf)) fz_append_printf(ctx, buf, "0 0 %g %g re\n", w, h); b = pdf_write_border_appearance(ctx, annot, buf); if (b > 0) { if (n == 4) fz_append_printf(ctx, buf, "%g %g %g %g K\n", color[0], color[1], color[2], color[3]); else if (n == 3) fz_append_printf(ctx, buf, "%g %g %g RG\n", color[0], color[1], color[2]); else if (n == 1) fz_append_printf(ctx, buf, "%g G\n", color[0]); else if (n == 0) fz_append_printf(ctx, buf, "0 G\n"); fz_append_printf(ctx, buf, "%g %g %g re\nS\n", b/2, b/2, w-b, h-b); } fz_append_printf(ctx, buf, "%g %g %g re\nW\n\n", b, b, w-b*2, h-b*2); write_variable_text(ctx, annot, buf, res, lang, text, font, size, n, color, q, w, h, b*2, 0.8f, 1.2f, 1, 0, 0); } </pre>	<pre> static void pdf_write_free_text_appearance(fz_context* ctx, pdf_annot* annot, fz_buffer* buf, fz_rect* rect, fz_rect* bbox, fz_matrix* matrix, pdf_obj** res) { const char* font; float size, color[4]; const char* text; float w, h, t, b; int q, r, n; int lang; /* /Rotate is an undocumented annotation property supported by Adobe */ text = pdf_annot_contents(ctx, annot); r = pdf_dict_get_int(ctx, annot->obj, PDF_NAME(Rotate)); q = pdf_annot_quadding(ctx, annot); pdf_annot_default_appearance(ctx, annot, &font, &size, &n, color); lang = pdf_annot_language(ctx, annot); b = pdf_write_border_appearance(ctx, annot, buf); fz_font* fonta = fz_new_base14_font(ctx, full_font_name(&font)); float var_w = 0; float max_w = 400.0; float fontheight = size; float lineNo = 0; get_var_rect_from_text(ctx, lang, fonta, size, text, max_w, &var_w, &lineNo); if (var_w < max_w) { rect->x1 = rect->x0 + var_w; rect->y1 = rect->y0 + fontheight + lineNo * fontheight; } else { rect->x1 = rect->x0 + max_w; rect->y1 = rect->y0 + fontheight + var_w / max_w * fontheight + lineNo * fontheight; } rect->y1 += 2 * b; rect->x1 += 2 * b; w = rect->x1 - rect->x0; h = rect->y1 - rect->y0; if (r == 90 r == 270) t = h, h = w, w = t; *matrix = fz_rotate(r); *bbox = fz_make_rect(0, 0, w, h); pdf_write_opacity(ctx, annot, buf, res); pdf_write_dash_pattern(ctx, annot, buf, res); if (pdf_write_fill_color_appearance(ctx, annot, buf)) fz_append_printf(ctx, buf, "0 0 %g %g re\n", w, h); if (b > 0) { if (n == 4) fz_append_printf(ctx, buf, "%g %g %g %g K\n", color[0], color[1], color[2], color[3]); else if (n == 3) fz_append_printf(ctx, buf, "%g %g %g RG\n", color[0], color[1], color[2]); else if (n == 1) fz_append_printf(ctx, buf, "%g G\n", color[0]); else if (n == 0) fz_append_printf(ctx, buf, "0 G\n"); fz_append_printf(ctx, buf, "%g %g %g re\nW\n\n", 0, 0, w, h); } fz_append_printf(ctx, buf, "%g %g %g re\nW\n\n", b, b, w-b, h-b); } </pre>

		<pre> write_variable_text(ctx, annot, buf, res, lang, text, font, size, n, color, q, w, h, b, 1.0f, 1.0f, 1, 0, 1); } </pre>
pdf-appearance.c Returns a Rect object size that fits the text size	없었음	<pre> static void get_var_rect_from_text(fz_context* ctx, fz_text_language lang, fz_font* font, float size, const char* text, float maxw, float* rectw, float* lineNo) { struct text_walk_state state; float x = 0; float y = 0; init_text_walk(ctx, &state, lang, font, text, NULL); while (next_text_walk(ctx, &state)) { x += state.w * size; if (state.u == 'Wn' state.u == 'Wr') { y++; y; } } *rectw = x; *lineNo = y; } </pre>
pdf-annot.c pdf_create_annot Change to a transparent border for Caret(Custom stam = Clipboard image)	fz_rect caret_rect = { 12, 12, 12+200, 12+150 }; pdf_set_annot_rect(ctx, annot, caret_rect); pdf_set_annot_color(ctx, annot, 3, blue);	<pre> fz_rect caret_rect = {12, 12, 12 + 200, 12 + 150}; pdf_set_annot_rect(ctx, annot, caret_rect); float transparent[] = {0, 0, 0, 0}; pdf_set_annot_color(ctx, annot, 4, transparent); </pre>
EditAnnotations.cpp EditAnnotationsWindow Declaring clipboard image Trackbar and Track Position Objects		<pre> Static* staticImageSize = nullptr; Trackbar* trackbarImageSize = nullptr; </pre>
EditAnnotations.cpp HidePerAnnotControls Make clipboard image trackbar and track position objects visible		<pre> ew->staticImageSize->SetIsVisible(false); ew->trackbarImageSize->SetIsVisible(false); </pre>
EditAnnotations.cpp HidePerAnnotControls Initialize cliboard image Trackbar command		<pre> DolImageSize(ew, ew->annot); </pre>
EditAnnotations.cpp DolImageSize Trackbar initialization actual code		<pre> static void DolImageSize(EditAnnotationsWindow* ew, Annotation* annot) { if (Type(annot) != AnnotationType::Caret) { return; } // get rect information RectF rect = GetBounds(annot); AutoFreeStr s = str::Format(_TRA("Image Width: %.1f"), rect.dx); ew->staticImageSize->SetText(s.Get()); // set position of trackbar to the clipboard image width ew->trackbarImageSize->SetValue(int(rect.dx)); ew->staticImageSize->SetIsVisible(true); ew->trackbarImageSize->SetIsVisible(true); } </pre>
EditAnnotations.cpp ClipboardSizeChanging Trackbar scrolling changes		<pre> static void ClipboardSizeChanging(EditAnnotationsWindow* ew, TrackbarPosChangingEvent* ew) { EngineMupdf* e = ew->annot->engine; auto ctx = e->ctx; // get current width of clipboard image RectF rect = GetBounds(ew->annot); fz_rect fzrect = {0, 0, 10, 10}; // get position of trackbar scroll int ipos = ew->trackbarImageSize->GetValue(); if (ipos == 0) // do nothing return; // change the image width fzrect.x0 = rect.x; fzrect.x1 = rect.x + float(ipos); fzrect.y0 = rect.y; fzrect.y1 = rect.y + float(ipos) * rect.dy / rect.dx; // new rect for the changed image width pdf_set_annot_rect(ctx, ew->annot->pdfannot, fzrect); // display new image width in the static text AutoFreeStr s = str::Format(_TRA("Image Width: %.1f"), fzrect.x1-fzrect.x0); ew->staticImageSize->SetText(s.Get()); // apply changed image EnableSavelfAnnotationsChanged(ew); MainWindowRender(ew->tab->win); } </pre>
EditAnnotations.cpp CreateMainLayout Trackbar, add to trackbar position annotation		<pre> { auto w = CreateStatic(parent, _TRA("Image Width:")); w->SetInsetsPt(8, 0, 0, 0); ew->staticImageSize = w; vbox->AddChild(w); } { TrackbarCreateArgs args; args.parent = parent; args.rangeMin = 20; args.rangeMax = 400; auto w = new Trackbar(); w->SetInsetsPt(4, 0, 0, 0); w->Create(args); } </pre>

		<pre> w->onPosChanging = [ew](auto&& PH1) { return ClipboardSizeChanging(ew, std::forward<decltype(PH1)>(PH1)); }; ew->trackbarImageSize = w; vbox->AddChild(w); } </pre>
EditAnnotations.cpp Remove fill color option of the image clipboard (Caret) in the annotation window		<pre> static void DoColor(EditAnnotationsWindow* ew, Annotation* annot) { if (Type(annot) == AnnotationType::Caret) return; size_t n = dimof(gAnnotsWithColor); bool isVisible = IsAnnotationTypeInArray(gAnnotsWithColor, n, Type(annot)); if (!isVisible) { return; } PdfColor col = GetColor(annot); DropDownFillColors(ew->dropDownColor, col, ew->currCustomColor); n = dimof(gAnnotsIsColorBackground); bool isBgCol = IsAnnotationTypeInArray(gAnnotsIsColorBackground, n, Type(annot)); if (isBgCol) { ew->staticColor->SetText(_TR("Background Color:")); } else { ew->staticColor->SetText(_TR("Color:")); } ew->staticColor->SetIsVisible(true); ew->dropDownColor->SetIsVisible(true); } </pre>
EditAnnotations.cpp If you want to change the background color of the free text, insert the code in the area you marked with the highlighter.	<pre> static void DoColor(EditAnnotationsWindow* ew, Annotation* annot) { if (Type(annot) == AnnotationType::Caret) return; size_t n = dimof(gAnnotsWithColor); bool isVisible = IsAnnotationTypeInArray(gAnnotsWithColor, n, Type(annot)); if (!isVisible) { return; } PdfColor col = GetColor(annot); if (Type(annot) == AnnotationType::FreeText) { col = 0xffffffff; SetColor(ew->annot, col); } DropDownFillColors(ew->dropDownColor, col, ew->currCustomColor); n = dimof(gAnnotsIsColorBackground); bool isBgCol = IsAnnotationTypeInArray(gAnnotsIsColorBackground, n, Type(annot)); if (isBgCol) { ew->staticColor->SetText(_TR("Background Color:")); } else { ew->staticColor->SetText(_TR("Color:")); } ew->staticColor->SetIsVisible(true); ew->dropDownColor->SetIsVisible(true); } </pre>	<pre> static void DoColor(EditAnnotationsWindow* ew, Annotation* annot) { if (Type(annot) == AnnotationType::Caret) return; size_t n = dimof(gAnnotsWithColor); bool isVisible = IsAnnotationTypeInArray(gAnnotsWithColor, n, Type(annot)); if (!isVisible) { return; } PdfColor col = GetColor(annot); if (Type(annot) == AnnotationType::FreeText) { col = 0xffffffff; SetColor(ew->annot, col); } DropDownFillColors(ew->dropDownColor, col, ew->currCustomColor); n = dimof(gAnnotsIsColorBackground); bool isBgCol = IsAnnotationTypeInArray(gAnnotsIsColorBackground, n, Type(annot)); if (isBgCol) { ew->staticColor->SetText(_TR("Background Color:")); } else { ew->staticColor->SetText(_TR("Color:")); } ew->staticColor->SetIsVisible(true); ew->dropDownColor->SetIsVisible(true); } </pre>
2023.05.16 declare object.h definition pdf-object.c 엔터를 치면 두 줄씩 생기는 문제 수정	<pre> const char *pdf_to_string(fz_context *ctx, pdf_obj *obj, size_t *sizep); ----- const char *pdf_to_text_string(fz_context *ctx, pdf_obj *obj) { RESOLVE(obj); if (OBJ_IS_STRING(obj)) { if (!ISSTRING(obj)->text) STRING(obj)->text = pdf_new_utf8_from_pdf_string(ctx, STRING(obj)->buf, STRING(obj)->len); return STRING(obj)->text; } return ""; } </pre>	<pre> void replace_crlf(char* str); const char *pdf_to_text_string(fz_context *ctx, pdf_obj *obj); ----- void replace_crlf(char* str) { char* p = str; while (*p) { if (*p == '\r' && *(p + 1) == '\n') { *p++ = '\n'; memmove(p, p + 1, strlen(p + 1) + 1); } else { p++; } } } const char *pdf_to_text_string(fz_context *ctx, pdf_obj *obj) { RESOLVE(obj); if (OBJ_IS_STRING(obj)) { if (!ISSTRING(obj)->text) STRING(obj)->text = pdf_new_utf8_from_pdf_string(ctx, STRING(obj)->buf, STRING(obj)->len); char *res = STRING(obj)->text; replace_crlf(res); return res; } return ""; } </pre>