

转档参数设置帮助

一、背景

'KdanAuto'作为用于(半)自动化转档测试工具，用于降低重复的、需要占用大量QA人力的工作量的工具，其App自身的开发时间投入，也是需要纳入重点考虑。

基于未来转档、DocumentAI SDK 将会长期投入开发，相关控制参数定会持续增加，用于同步测试的 KdanAuto 必然需要能够同步支持所新增的参数；同时 QA 用于测试的用例也必然是随着需求增加而不断增长，相应测试项需要有更灵活的设置方式。

因此，设计了该套【SDK新增参数 -> 更新控制规则 -> App 启动加载自动配置】控制规则，如下图：

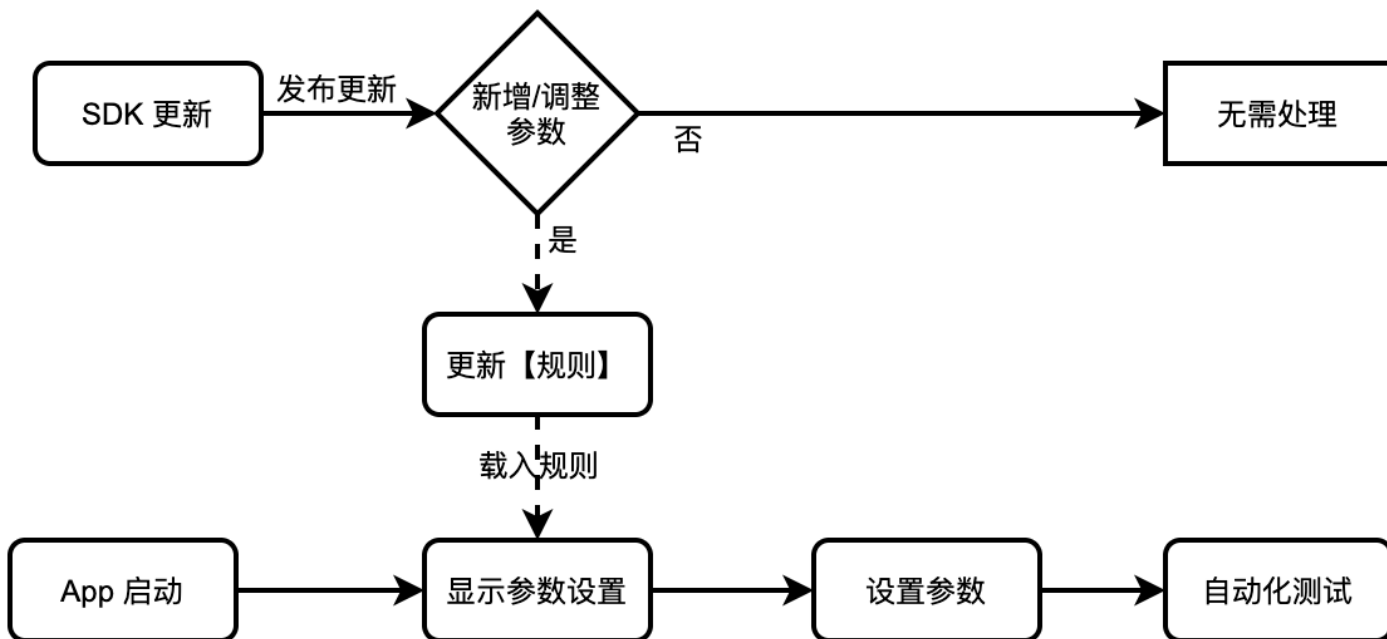


图 1.1.1 KdanAuto 参数规则控制流程

二、参数控制规则文档效果及样式

注：该文档以转档 SDK1.7.0版本参数参考拟定

1、JPEG/PNG 格式

- SDK JPEG 格式参数信息

```
CPDFConvertImgOptions.h 使用 Xcode 打开

//
// CPDFConvertImgOptions.h
// ComPDFKit_Conversion
//
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//

#import <ComPDFKit_Conversion/CPDFConvertOptions.h>

typedef NS_ENUM(NSUInteger, CPDFConvertImgType) {
    CPDFConvertImgTypeJPEG = 0,
    CPDFConvertImgTypePNG = 1
};

/**
 * PDF to Image conversion parameter object (derived class of CPDFConvertOptions).
 */
@interface CPDFConvertImgOptions : CPDFConvertOptions

/**
 * Sets the image type.
 *
 * @see CPDFConvertImgType
 */
@property (nonatomic,assign) CPDFConvertImgType type;

/**
 * Whether to contain annotations when converting.
 */
@property (nonatomic,assign) BOOL isContainAnnotations;

/**
 * Sets the image Dpi.
 */
@property (nonatomic,assign) int imageDpi;

@end
```

图 2.1.1 SDK JPEG 格式参数信息

- 参数控制 UI 效果

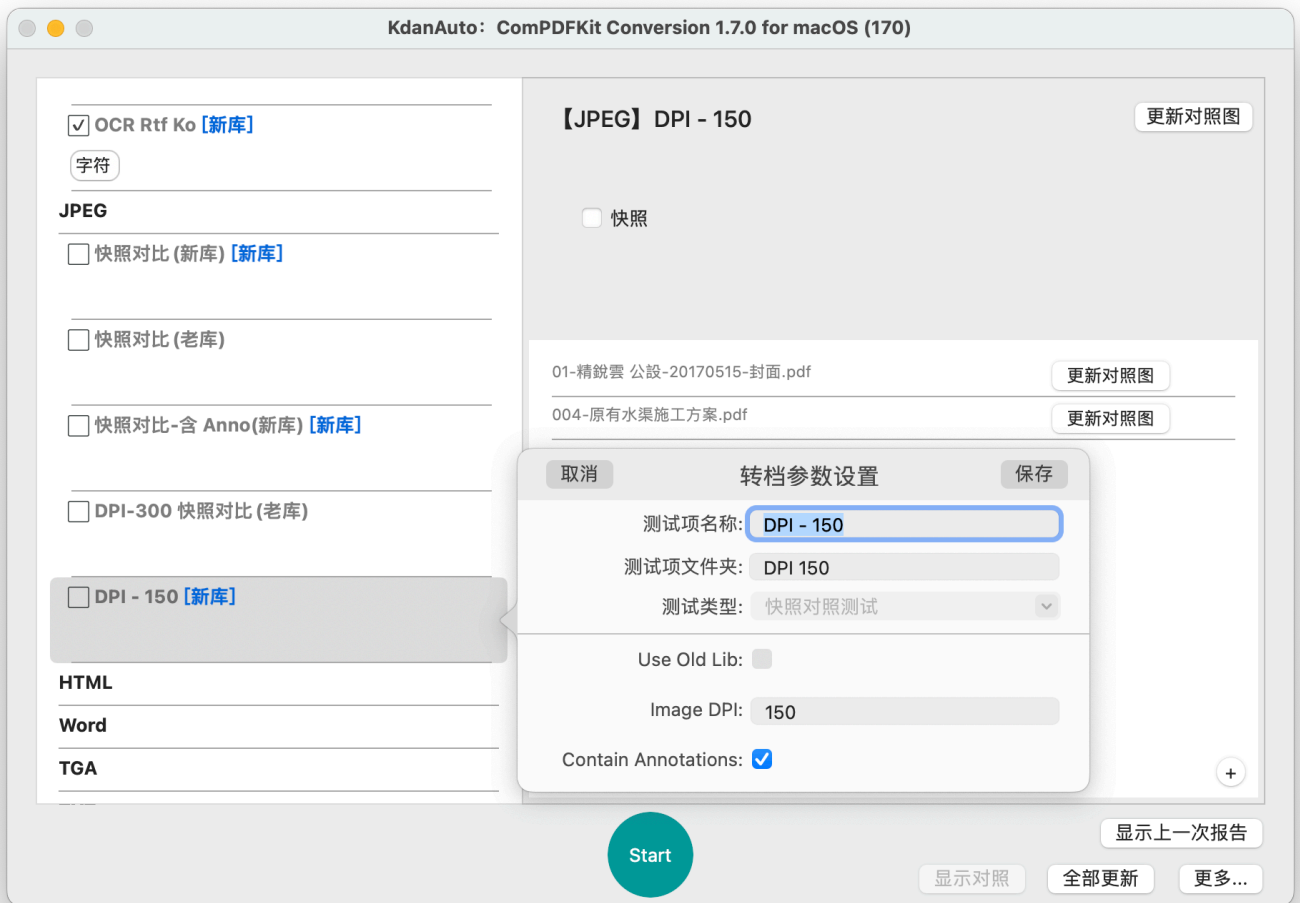


图 2.1.2 参数控制 UI 效果

• 参数规则属性配置

√ JPEG		Dictionary	(3 items)
√ Classs	+ -	Array	(1 item)
√ Item 0		Dictionary	(2 items)
Name		String	快照对照测试
Class		String	AutoTest
Extention		String	jpg
√ Params		Array	(2 items)
√ Item 0		Dictionary	(4 items)
ValueType		String	int
Property		String	imageDpi
Name		String	Image DPI
DefaultValue		Number	216
√ Item 1		Dictionary	(4 items)
ValueType		String	BOOL
Property		String	isContainAnnotations
Name		String	Contain Annotations
DefaultValue		Boolean	NO

图 2.1.3 参数规则属性配置

- 参数规则配置详情

```
<key>JPEG</key>
<dict>
  <key>Classes</key>
  <array>
    <dict>
      <key>Name</key>
      <string>快照对照测试</string>
      <key>Class</key>
      <string>AutoTest</string>
    </dict>
  </array>
  <key>Extention</key>
  <string>jpg</string>
  <key>Params</key>
  <array>
    <dict>
      <key>ValueType</key>
      <string>int</string>
      <key>Property</key>
      <string>imageDpi</string>
      <key>Name</key>
      <string>Image DPI</string>
      <key>DefaultValue</key>
      <integer>216</integer>
    </dict>
    <dict>
      <key>ValueType</key>
      <string>BOOL</string>
      <key>Property</key>
      <string>isContainAnnotations</string>
      <key>Name</key>
      <string>Contain Annotations</string>
      <key>DefaultValue</key>
      <false/>
    </dict>
  </array>
</dict>
```

2、CSV 格式

- SDK CSV 格式参数信息

```
CPDFConvertCsvOptions.h 使用 Xcode 打开

//
// CPDFConvertCsvOptions.h
// ComPDFKit_Conversion
//
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//

#import <ComPDFKit_Conversion/CPDFConvertOptions.h>

/**
 * PDF to CSV conversion parameter object (derived class of CPDFConvertOptions).
 */
@interface CPDFConvertCsvOptions : CPDFConvertOptions

/**
 * Whether to merge CSV when converting.
 */
@property (nonatomic,assign) BOOL isMergeCSV;

@end
```

图 2.2.1 SDK CSV 格式参数信息

- 参数控制 UI 效果

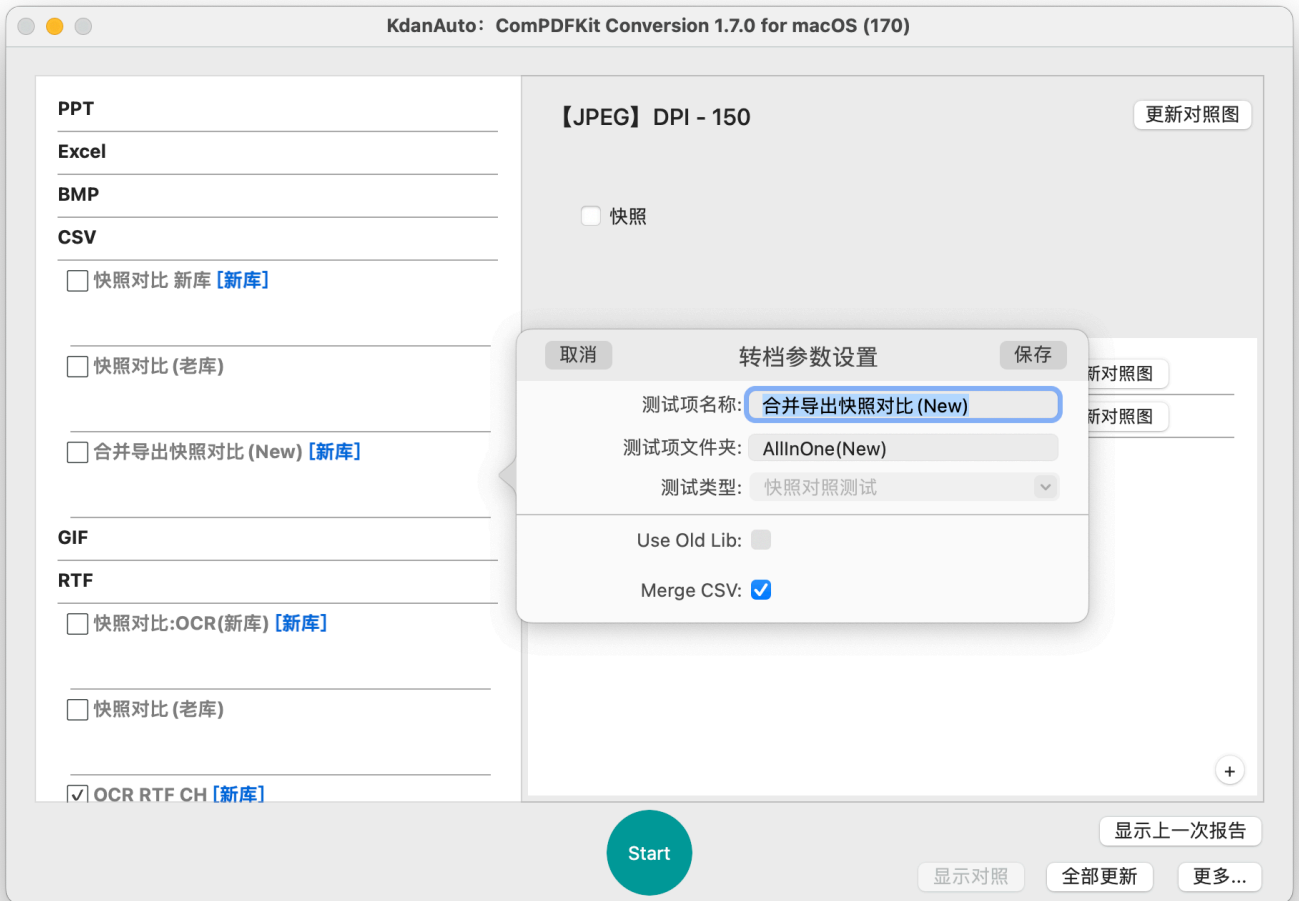


图 2.2.2 参数控制 UI 效果

- 参数规则属性配置

√ Root	Dictionary	(10 items)
> PDF	Dictionary	(3 items)
> RTF	Dictionary	(3 items)
> Word	Dictionary	(3 items)
> PPT	Dictionary	(3 items)
> Excel	Dictionary	(3 items)
√ CSV	Dictionary	(3 items)
√ Classs	Array	(1 item)
√ Item 0	Dictionary	(2 items)
Name	String	快照对照测试
Class	String	AutoTest
Extention	String	csv
√ Params	Array	(1 item)
√ Item 0	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isMergeCSV
Name	String	Merge CSV
DefaultValue	Boolean	NO

图 2.2.3 参数规则属性配置

- 参数规则配置详情

```

<key>CSV</key>
<dict>
  <key>Classs</key>
  <array>
    <dict>
      <key>Name</key>
      <string>快照对照测试</string>
      <key>Class</key>
      <string>AutoTest</string>
    </dict>
  </array>
  <key>Extention</key>
  <string>csv</string>
  <key>Params</key>
  <array>
    <dict>
      <key>ValueType</key>
      <string>BOOL</string>
      <key>Property</key>
      <string>isMergeCSV</string>
      <key>Name</key>
      <string>Merge CSV</string>
      <key>DefaultValue</key>
      <false/>
    </dict>
  </array>
</dict>

```

3、TXT 格式

- SDK TXT 格式参数信息

```
CPDFConvertTxtOptions.h 使用 Xcode 打开

//
// CPDFConvertTxtOptions.h
// ComPDFKit_Conversion
//
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//

#import <ComPDFKit_Conversion/CPDFConvertOptions.h>

/**
 * PDF to TXT conversion parameter object (derived class of CPDFConvertOptions).
 */
@interface CPDFConvertTxtOptions : CPDFConvertOptions
/**
 * Whether to use OCR.
 */
@property (nonatomic,assign) BOOL isAllowOCR;

/**
 * Set the OCR language,this takes effect only when IsAllowOCR is true.
 */
@property (nonatomic,assign) COCRLanguage language;

@end
```

图 2.3.1 SDK TXT 格式参数信息

- 参数控制 UI 效果

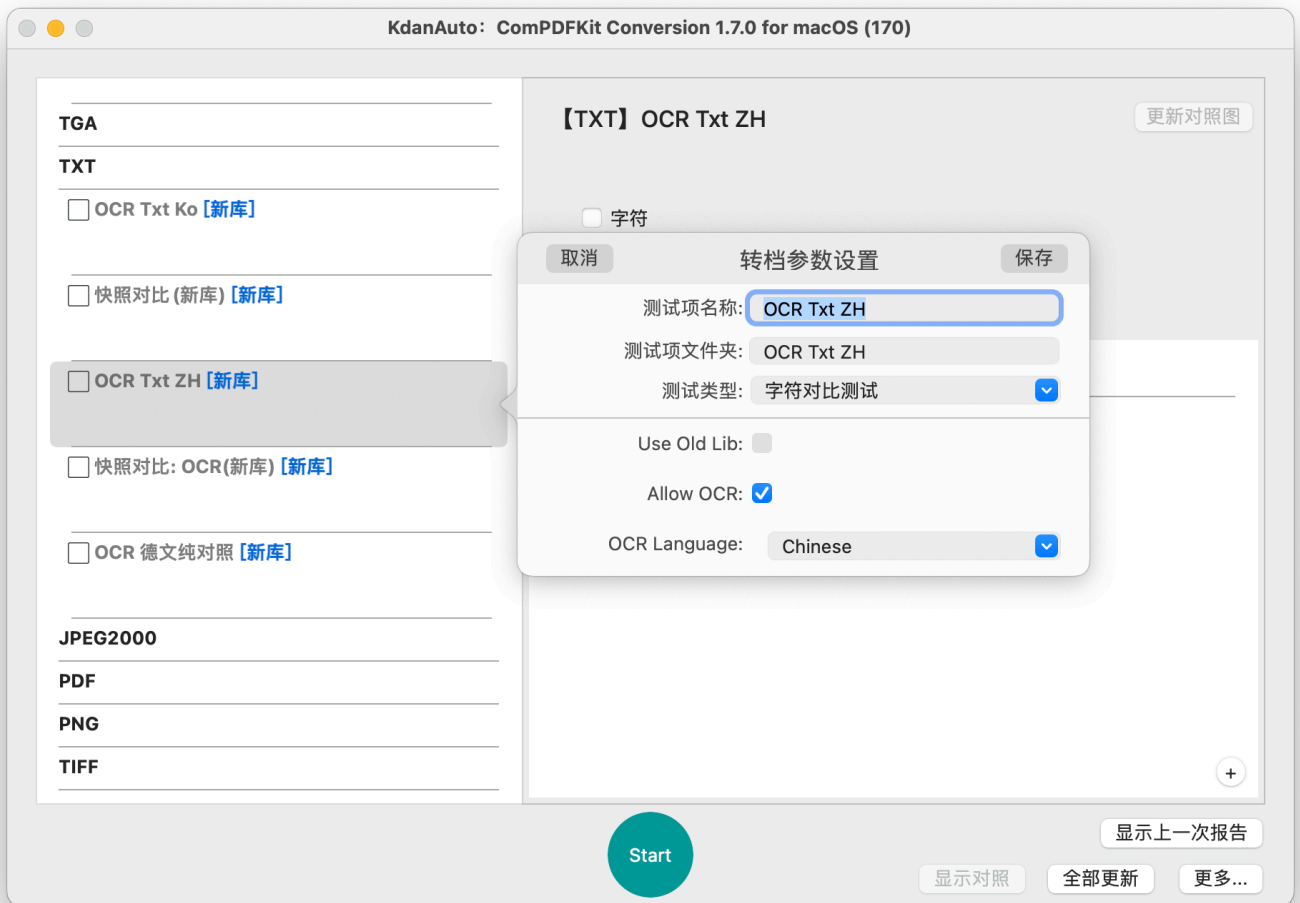


图 2.3.2 参数控制 UI 效果

- 参数规则属性配置

▼ TXT	Dictionary	(3 items)
▼ Classs	Array	(3 items)
▼ Item 0	Dictionary	(2 items)
Name	String	快照对照测试
Class	String	AutoTest
▼ Item 1	Dictionary	(2 items)
Name	String	字符对比测试
Class	String	StringAutoTest
▼ Item 2	Dictionary	(2 items)
Name	String	跨平台字符对比测试
Class	String	StringAutoCompare
Extention	String	txt
▼ Params	Array	(2 items)
▼ Item 0	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isAllowOCR
Name	String	Allow OCR
DefaultValue	Boolean	NO
▼ Item 1	Dictionary	(5 items)
ValueType	String	NSInteger
Property	String	language
Name	String	OCR Language
DefaultValue	Number	0
▼ Values	Array	(55 items)
▼ Item 0	Dictionary	(2 items)
Value	Number	0
Name	String	Chinese
▼ Item 1	Dictionary	(2 items)
Value	Number	1
Name	String	Chinese Traditional
▼ Item 2	Dictionary	(2 items)
Value	Number	2
Name	String	English
▼ Item 3	Dictionary	(2 items)
Value	Number	3
Name	String	Japanese
▼ Item 4	Dictionary	(2 items)
Value	Number	4
Name	String	Korean
> Item 5	Dictionary	(2 items)
> Item 6	Dictionary	(2 items)
> Item 7	Dictionary	(2 items)
> Item 8	Dictionary	(2 items)
> Item 9	Dictionary	(2 items)
> Item 10	Dictionary	(2 items)
> Item 11	Dictionary	(2 items)
> Item 12	Dictionary	(2 items)

图 2.3.3 参数规则属性配置

4、HTML 格式

- SDK HTML 格式参数信息

```
CPDFConvertHtmlOptions.h 使用 Xcode 打开

//
// CPDFConvertHtmlOptions.h
// ComPDFKit_Conversion
//
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//

#import <ComPDFKit_Conversion/CPDFConvertOptions.h>

/**
 * Options to set pages and navigation panes.
 */
typedef NS_ENUM(NSUInteger, CPDFConvertHtmlPageAndNavigationPaneOptions) {
    CPDFConvertHtmlSinglePage = 0, // Single page with no navigation.
    CPDFConvertHtmlSinglePageNavigationByBookmarks = 1, // Navigate single page using bookmarks from PDF.
    CPDFConvertHtmlMultiplePages = 2, // Multiple pages with no split.
    CPDFConvertHtmlMultiplePagesSplitByBookmarks = 3 // Split multiple pages using bookmarks from PDF.
};

/**
 * PDF to HTML conversion parameter object (derived class of CPDFConvertOptions).
 */
@interface CPDFConvertHtmlOptions : CPDFConvertOptions

/**
 * Sets options to convert PDF to HTML.
 *
 * @see CPDFConvertHtmlPageAndNavigationPaneOptions
 */
@property (nonatomic,assign) CPDFConvertHtmlPageAndNavigationPaneOptions paneOptions;

/**
 * Whether to use OCR.
 */
@property (nonatomic,assign) BOOL isAllowOCR;

/**
 * Set the OCR language,this takes effect only when IsAllowOCR is true.
 */
@property (nonatomic,assign) COCRLanguage language;

/**
 * Whether to contain annotations when converting.
 */
@property (nonatomic,assign) BOOL isContainAnnotations;

/**
 * Whether to contain images when converting.
 */
@property (nonatomic,assign) BOOL isContainImages;

@end
```

图 2.4.1 SDK HTML 格式参数信息

- 参数控制 UI 效果

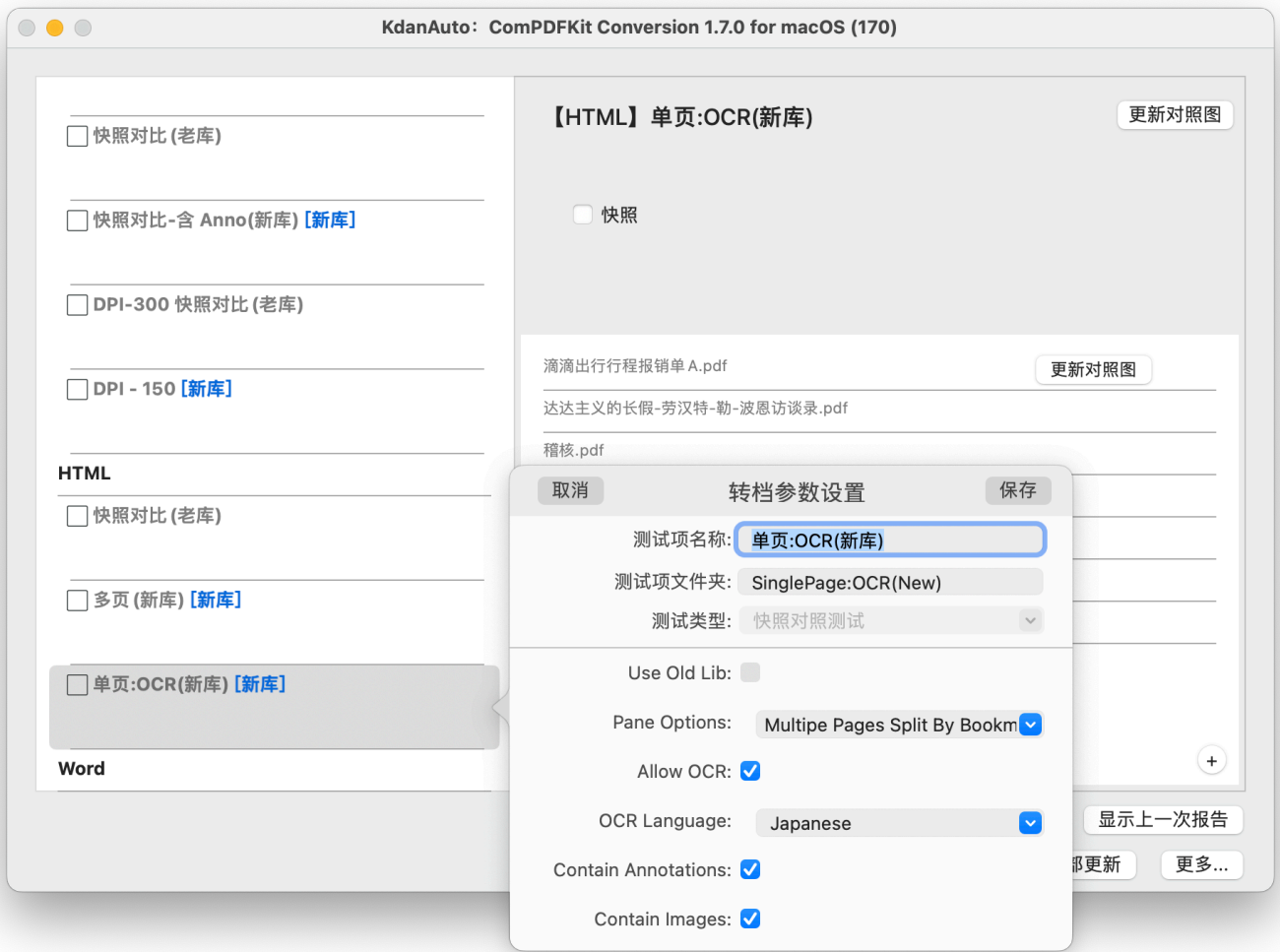


图 2.4.2 参数控制 UI 效果

- 参数规则属性配置

HTML	Dictionary	(3 items)
Class	Array	(1 item)
Item 0	Dictionary	(2 items)
Name	String	快照对照测试
Class	String	AutoTest
Extention	String	html
Params	Array	(5 items)
Item 0	Dictionary	(5 items)
ValueType	String	NSInteger
Property	String	paneOptions
Name	String	Pane Options
DefaultValue	Number	0
Values	Array	(4 items)
Item 0	Dictionary	(2 items)
Value	Number	0
Name	String	SinglePage
Item 1	Dictionary	(2 items)
Value	Number	1
Name	String	Page Navigation By Bookmarks
Item 2	Dictionary	(2 items)
Value	Number	2
Name	String	Multiple Pages
Item 3	Dictionary	(2 items)
Value	Number	2
Name	String	Multiple Pages Split By Bookmarks
Item 1	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isAllowOCR
Name	String	Allow OCR
DefaultValue	Boolean	NO
Item 2	Dictionary	(5 items)
ValueType	String	NSInteger
Property	String	language
Name	String	OCR Language
DefaultValue	Number	0
> Values	Array	(55 items)
Item 3	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isContainAnnotations
Name	String	Contain Annotations
DefaultValue	Boolean	NO
Item 4	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isContainImages
Name	String	Contain Images
DefaultValue	Boolean	NO

图 2.4.3 参数规则属性配置

5、Excel 格式

- SDK Excel 格式参数信息

```
CPDFConvertExcelOptions.h
//
// CPDFConvertExcelOptions.h
// ComPDFKit_Conversion
//
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//

#import <ComPDFKit_Conversion/CPDFConvertOptions.h>

typedef NS_ENUM(NSUInteger, CPDFConvertExcelContentOptions) {
    CPDFConvertExcelContentOnlyText = 0, // Only extract text in PDF and write it to XLSX without extracting the table.
    CPDFConvertExcelContentOnlyTable = 1, // Only extract table in PDF and write it to XLSX.
    CPDFConvertExcelContentAllContent = 2 // Extract all content in PDF and write it to XLSX, including table and non-table content.
};

typedef NS_ENUM(NSUInteger, CPDFConvertExcelWorksheetOptions) {
    CPDFConvertExcelWorksheetForEachTable = 0, // Each table in the PDF is converted to one separate Worksheet.
    CPDFConvertExcelWorksheetForEachPage = 1, // All tables on one page in the PDF are converted to one separate Worksheet.
    CPDFConvertExcelWorksheetForTheDocument = 2 // All tables in the entire PDF are converted to one separate Worksheet.
};

/**
 * PDF to Excel conversion parameter object(derived class of CPDFConvertOptions).
 */
@interface CPDFConvertExcelOptions : CPDFConvertOptions

/**
 * Options to extract content.
 */
@property (nonatomic,assign) CPDFConvertExcelContentOptions contentOptions;

/**
 * Options to create Worksheet.
 */
@property (nonatomic,assign) CPDFConvertExcelWorksheetOptions worksheetOptions;

/**
 * Whether to use OCR.
 */
@property (nonatomic,assign) BOOL isAllowOCR;

/**
 * Whether the OCR background image is contained,this takes effect only when IsAllowOCR is true.
 */
@property (nonatomic,assign) BOOL isContainOCRBgImage;

/**
 * Set the OCR language,this takes effect only when IsAllowOCR is true.
 */
@property (nonatomic,assign) COCRLanguage language;

/**
 * Whether to contain annotations when converting.
 */
@property (nonatomic,assign) BOOL isContainAnnotations;

/**
 * Whether to contain images when converting.
 */
@property (nonatomic,assign) BOOL isContainImages;

@end
```

图 2.5.1 SDK Excel 格式参数信息

- 参数控制 UI 效果

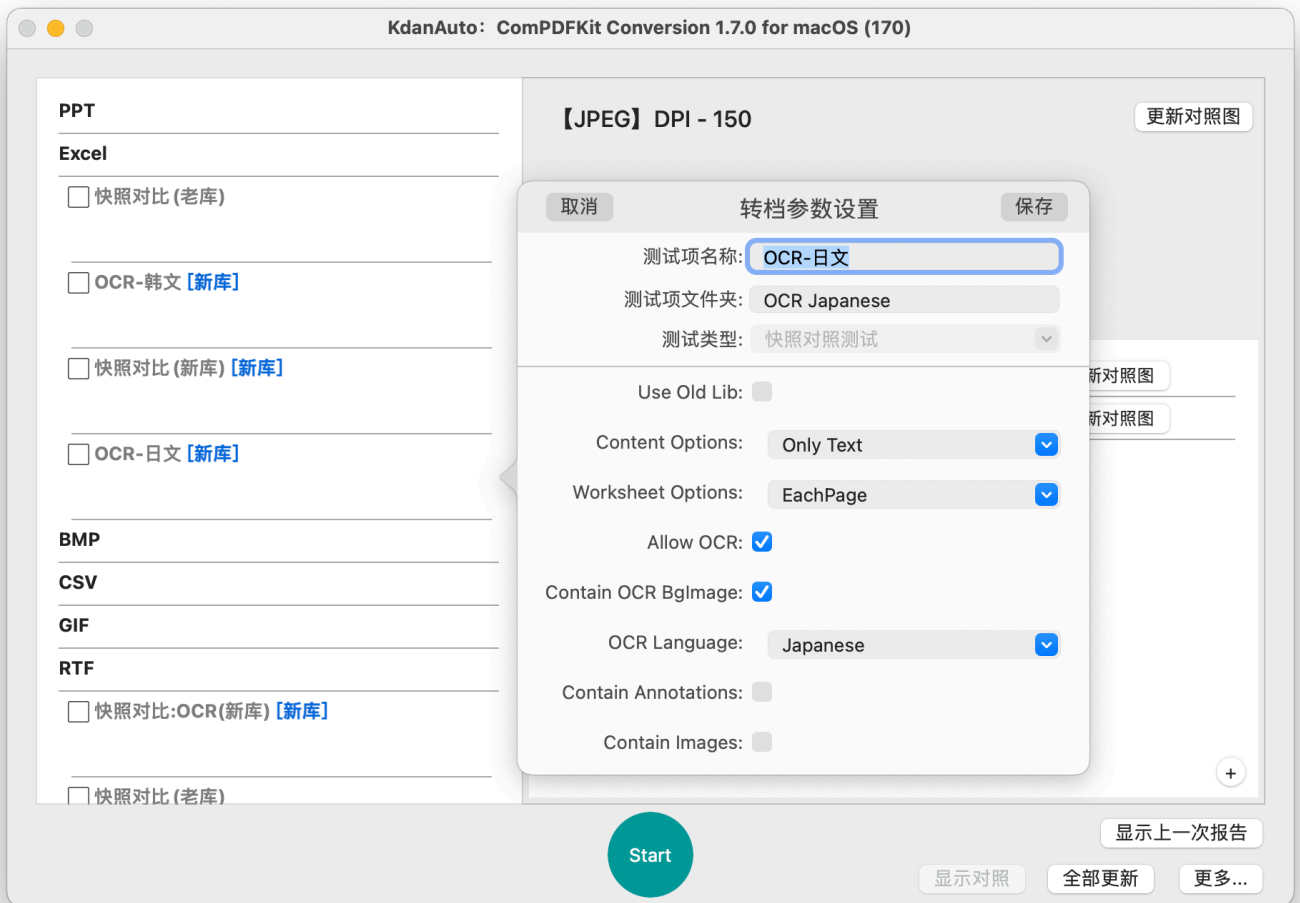


图 2.5.2 参数控制 UI 效果

• 参数规则属性配置

Key	Type	Value
√ Excel	Dictionary	(3 items)
Extention	String	xlsx
√ Class	Array	(1 item)
√ Item 0	Dictionary	(2 items)
Name	String	快照对照测试
Class	String	AutoTest
√ Params	Array	(7 items)
√ Item 0	Dictionary	(5 items)
ValueType	String	NSInteger
Property	String	contentOptions
Name	String	Content Options
DefaultValue	Number	2
√ Values	Array	(3 items)
> Item 0	Dictionary	(2 items)
> Item 1	Dictionary	(2 items)
> Item 2	Dictionary	(2 items)
√ Item 1	Dictionary	(5 items)
ValueType	String	NSInteger


Property	String	worksheetOptions
Name	String	Worksheet Options
DefaultValue	Number	0
> Values	Array	(3 items)
v Item 2	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isAllowOCR
Name	String	Allow OCR
DefaultValue	Boolean	NO
v Item 3	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isContainOCRBglImage
Name	String	Contain OCR BglImage
DefaultValue	Boolean	NO
v Item 4	Dictionary	(5 items)
ValueType	String	NSInteger
Property	String	language
Name	String	OCR Language
DefaultValue	Number	0
> Values	Array	(55 items)
v Item 5	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isContainAnnotations
Name	String	Contain Annotations
DefaultValue	Boolean	NO
v Item 6	Dictionary	(4 items)
ValueType	 String	BOOL
Property	String	isContainImages
Name	String	Contain Images
DefaultValue	Boolean	NO

图 2.5.3 参数规则属性配置

6、PPT 格式

- SDK PPT格式参数信息


```
CPDFConvertPPTOptions.h 使用 Xcode 打开
//
// CPDFConvertPPTOptions.h
// ComPDFKit_Conversion
//
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//

#import <ComPDFKit_Conversion/CPDFConvertOptions.h>

/**
 * PDF to PPT conversion parameter object(derived class of CPDFConvertOptions).
 */
@interface CPDFConvertPPTOptions : CPDFConvertOptions
/**
 * Whether to use OCR.
 */
@property (nonatomic,assign) BOOL isAllowOCR;

/**
 * Whether the OCR background image is contained,this takes effect only when IsAllowOCR is true.
 */
@property (nonatomic,assign) BOOL isContainOCRBgImage;

/**
 * Set the OCR language,this takes effect only when IsAllowOCR is true.
 */
@property (nonatomic,assign) COCRLanguage language;

/**
 * Whether to contain annotations when converting.
 */
@property (nonatomic,assign) BOOL isContainAnnotations;

/**
 * Whether to contain images when converting.
 */
@property (nonatomic,assign) BOOL isContainImages;

@end
```

图 2.6.1 SDK PPT 格式参数信息

- 参数控制 UI 效果

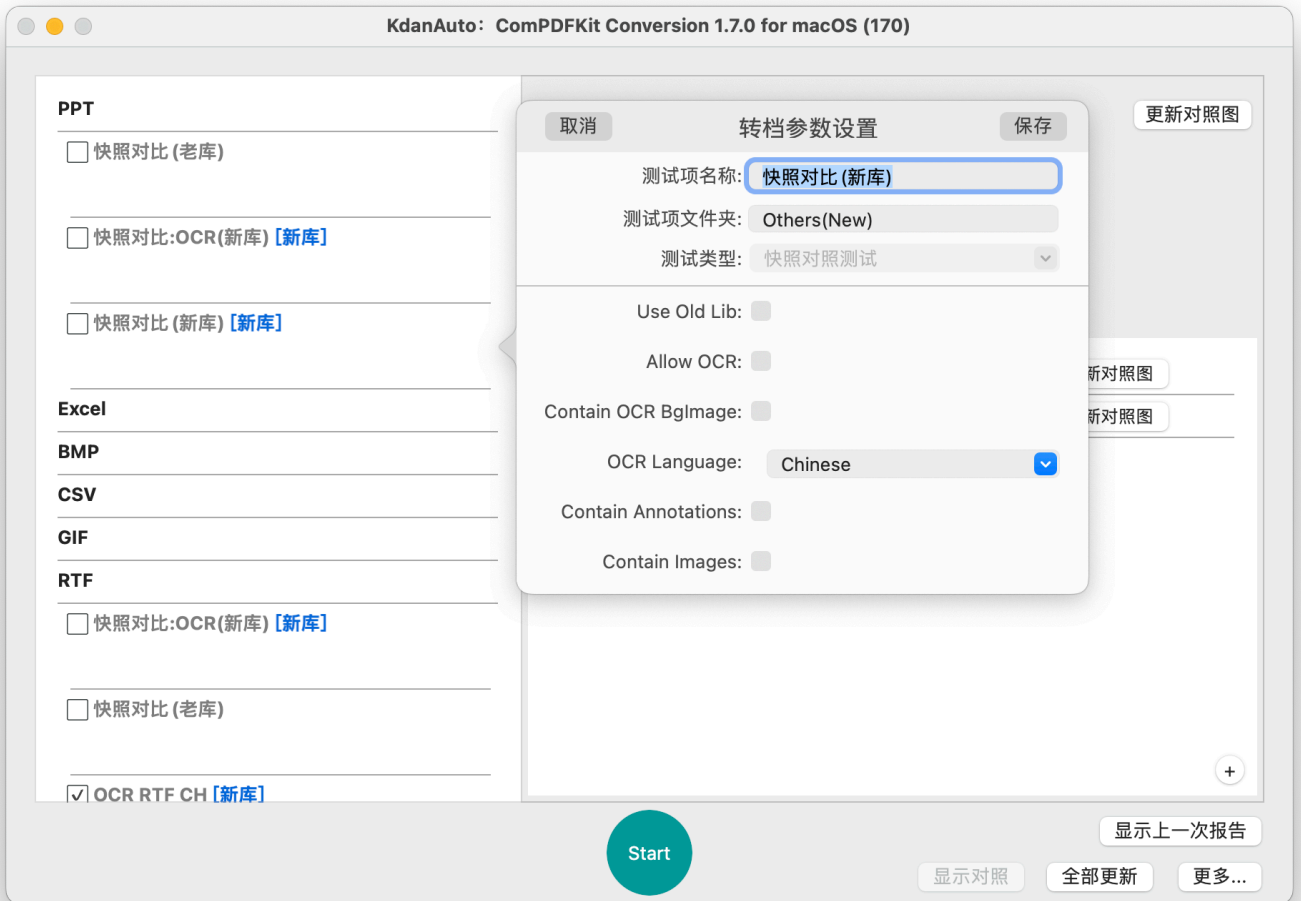


图 2.6.2 参数控制 UI 效果

- 参数规则属性配置

√ Root	Dictionary	(10 items)
> PDF	Dictionary	(3 items)
> RTF	Dictionary	(3 items)
> Word	Dictionary	(3 items)
√ PPT	Dictionary	(3 items)
Extention	String	pptx
√ Classs	Array	(1 item)
√ Item 0	Dictionary	(2 items)
Name	String	快照对照测试
Class	String	AutoTest
√ Params	Array	(5 items)
√ Item 0	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isAllowOCR
Name	String	Allow OCR
DefaultValue	Boolean	NO
√ Item 1	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isContainOCRBgImage
Name	String	Contain OCR BgImage
DefaultValue	Boolean	NO
√ Item 2	Dictionary	(5 items)
ValueType	String	NSInteger
Property	String	language
Name	String	OCR Language
DefaultValue	Number	0
> Values	Array	(55 items)
√ Item 3	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isContainAnnotations
Name	String	Contain Annotations
DefaultValue	Boolean	NO
√ Item 4	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isContainImages
Name	String	Contain Images
DefaultValue	Boolean	NO

图 2.6.3 参数规则属性配置

7、Word 格式

- SDK Word格式参数信息

```
CPDFConvertWordOptions.h 使用 Xcode 打开

//
// CPDFConvertWordOptions.h
// ComPDFKit_Conversion
//
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//

#import <ComPDFKit_Conversion/CPDFConvertOptions.h>

typedef NS_ENUM(NSUInteger, LayoutOptions) {
    RetainFlowingText,
    RetainPageLayout
};

/**
 * PDF to Word conversion parameter object(derived class of CPDFConvertOptions).
 */
@interface CPDFConvertWordOptions : CPDFConvertOptions
/**
 * Whether to use OCR.
 */
@property (nonatomic,assign) BOOL isAllowOCR;

/**
 * Whether the OCR background image is contained,this takes effect only when IsAllowOCR is true.
 */
@property (nonatomic,assign) BOOL isContainOCRBgImage;

/**
 * Set the OCR language,this takes effect only when IsAllowOCR is true.
 */
@property (nonatomic,assign) COCRLanguage language;

/**
 * Whether to contain annotations when converting.
 */
@property (nonatomic,assign) BOOL isContainAnnotations;

/**
 * Whether to contain images when converting.
 */
@property (nonatomic,assign) BOOL isContainImages;

@property (nonatomic,assign) LayoutOptions layoutOptions;

@end
```

图 2.7.1 SDK Word 格式参数信息

- 参数控制 UI 效果

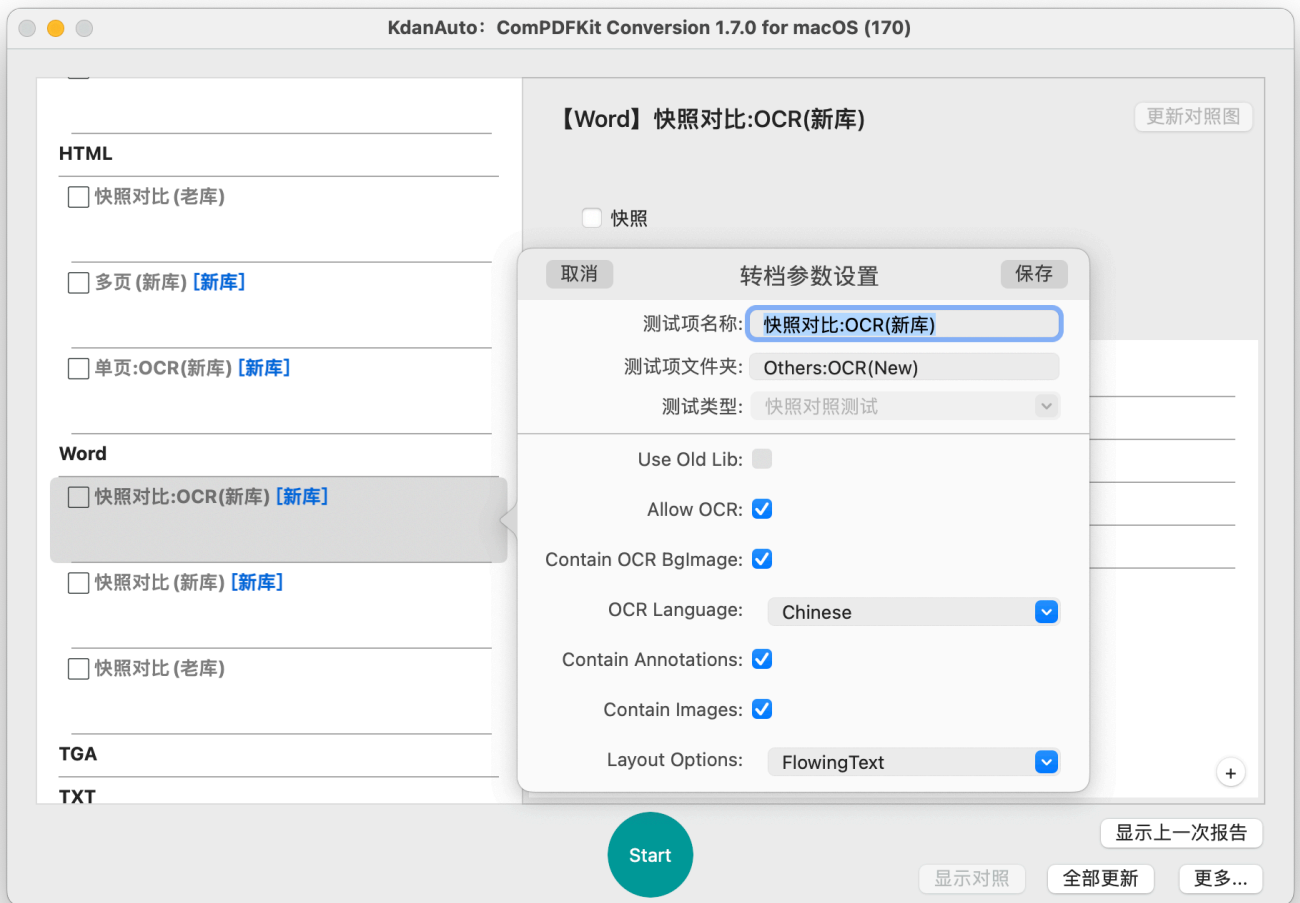


图 2.7.2 参数控制 UI 效果

- 参数规则属性配置

√ Root	Dictionary	(10 items)
> PDF	Dictionary	(3 items)
> RTF	Dictionary	(3 items)
√ Word	Dictionary	(3 items)
Extention	String	docx
√ Classs	Array	(1 item)
> Item 0	Dictionary	(2 items)
√ Params	Array	(6 items)
√ Item 0	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isAllowOCR
Name	String	Allow OCR
DefaultValue	Boolean	NO
√ Item 1	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isContainOCRBgImage
Name	String	Contain OCR BgImage
DefaultValue	Boolean	NO
√ Item 2	Dictionary	(5 items)
ValueType	String	NSInteger
Property	String	language
Name	String	OCR Language
DefaultValue	Number	0
> Values	Array	(55 items)
√ Item 3	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isContainAnnotations
Name	String	Contain Annotations
DefaultValue	Boolean	NO
√ Item 4	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isContainImages
Name	String	Contain Images
DefaultValue	Boolean	NO
√ Item 5	Dictionary	(5 items)
ValueType	String	NSInteger
Property	String	layoutOptions
Name	String	Layout Options
DefaultValue	Number	0
√ Values	Array	(2 items)
√ Item 0	Dictionary	(2 items)
Value	Number	0
Name	String	FlowingText
√ Item 1	Dictionary	(2 items)
Value	Number	1
Name	String	PageLayout

图 2.7.3 参数规则属性配置

8、RTF 格式

- SDK RTF格式参数信息

```
CPDFConvertRtfOptions.h
//
// CPDFConvertRtfOptions.h
// ComPDFKit_Conversion
//
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//
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//

#import <ComPDFKit_Conversion/CPDFConvertOptions.h>

/**
 * PDF to RTF conversion parameter object (derived class of CPDFConvertOptions).
 */
@interface CPDFConvertRtfOptions : CPDFConvertOptions
/**
 * Whether to use OCR.
 */
@property (nonatomic,assign) BOOL isAllowOCR;

/**
 * Set the OCR language,this takes effect only when IsAllowOCR is true.
 */
@property (nonatomic,assign) COCRLanguage language;
/**
 * Whether to contain annotations when converting.
 */
@property (nonatomic,assign) BOOL isContainAnnotations;

/**
 * Whether to contain images when converting.
 */
@property (nonatomic,assign) BOOL isContainImages;

@end
```

图 2.8.1 SDK RTF 格式参数信息

- 参数控制 UI 效果



图 2.8.2 参数控制 UI 效果

- 参数规则属性配置

√ Root	Dictionary	(10 items)
> PDF	Dictionary	(3 items)
√ RTF	Dictionary	(3 items)
Extention	String	rtf
√ Classes	Array	(3 items)
√ Item 0	Dictionary	(2 items)
Name	String	快照对照测试
Class	String	AutoTest
√ Item 1	Dictionary	(2 items)
Name	String	字符对照测试
Class	String	StringAutoTest
√ Item 2	Dictionary	(2 items)
Name	String	跨平台字符对比测试
Class	String	StringAutoCompare
√ Params	Array	(4 items)
√ Item 0	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isAllowOCR
Name	String	Allow OCR
DefaultValue	Boolean	NO
√ Item 1	Dictionary	(5 items)
ValueType	String	NSInteger
Property	String	language
Name	String	OCR Language
DefaultValue	Number	0
> Values	Array	(55 items)
√ Item 2	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isContainAnnotations
Name	String	Contain Annotations
DefaultValue	Boolean	NO
√ Item 3	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isContainImages
Name	String	Contain Images
DefaultValue	Boolean	NO

图 2.8.3 参数规则属性配置

9、PDF 格式

注：PDF -> PDF : PDF 文档对照测试，实际内部用到的转档为 PDF 转 JPEG格式，然后进行的 JPEG 图片对照

- SDK JPEG格式参数信息

```
CPDFConvertImgOptions.h
//
// CPDFConvertImgOptions.h
// ComPDFKit_Conversion
//
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//
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// UNAUTHORIZED REPRODUCTION OR DISTRIBUTION IS SUBJECT TO CIVIL AND CRIMINAL PENALTIES.
// This notice may not be removed from this file.
//
#import <ComPDFKit_Conversion/CPDFConvertOptions.h>

typedef NS_ENUM(NSUInteger, CPDFConvertImgType) {
    CPDFConvertImgTypeJPEG = 0,
    CPDFConvertImgTypePNG = 1
};

/**
 * PDF to Image conversion parameter object (derived class of CPDFConvertOptions).
 */
@interface CPDFConvertImgOptions : CPDFConvertOptions

/**
 * Sets the image type.
 *
 * @see CPDFConvertImgType
 */
@property (nonatomic,assign) CPDFConvertImgType type;

/**
 * Whether to contain annotations when converting.
 */
@property (nonatomic,assign) BOOL isContainAnnotations;

/**
 * Sets the image Dpi.
 */
@property (nonatomic,assign) int imageDpi;

@end
```

图 2.9.1 SDK JPEG 格式参数信息

- 参数控制 UI 效果

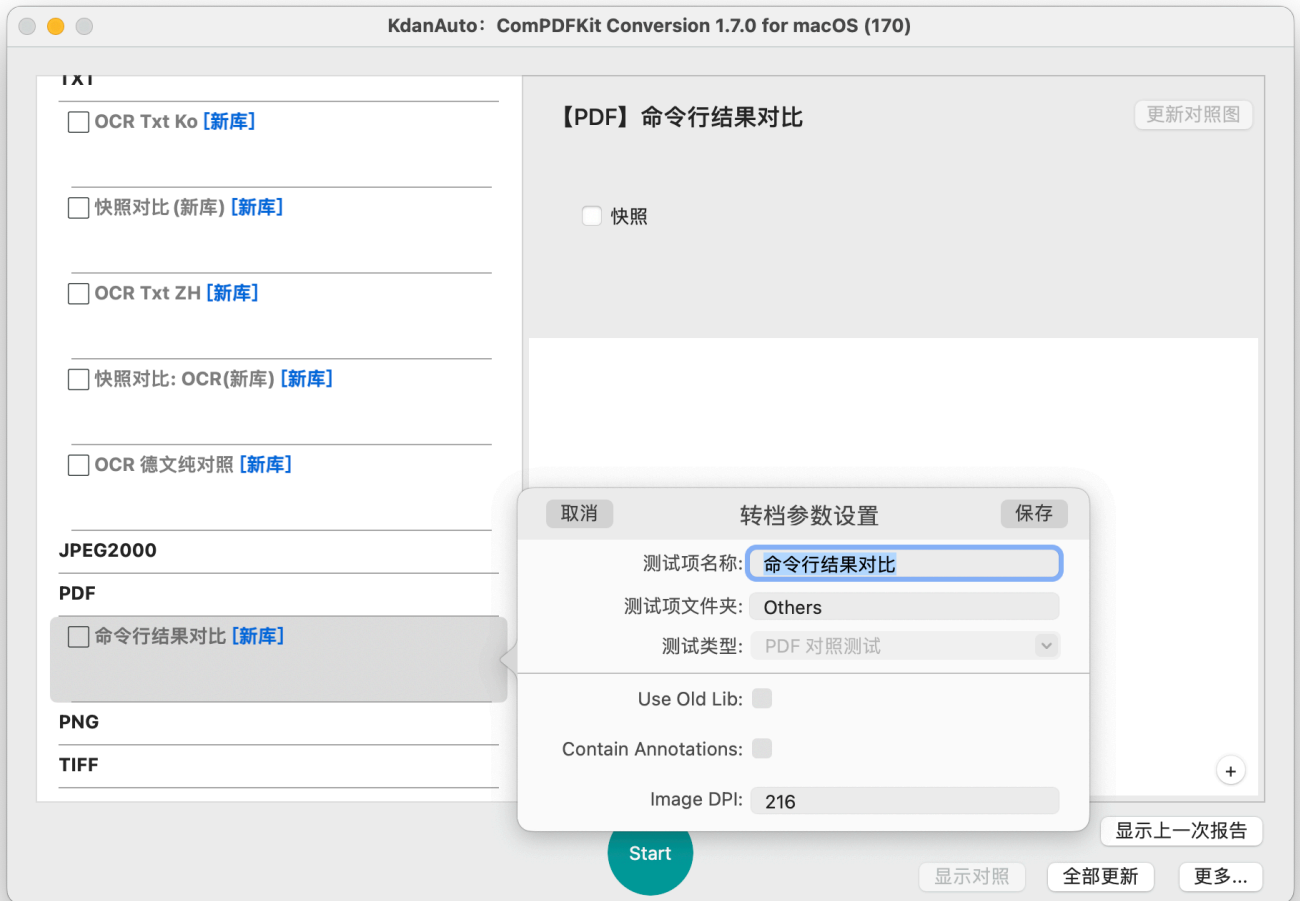


图 2.9.2 参数控制 UI 效果

• 参数规则属性配置

√ Root	Dictionary	(10 items)
√ PDF	Dictionary	(3 items)
Extention	String	pdf
√ Class	Array	(1 item)
√ Item 0	Dictionary	(2 items)
Name	String	PDF 对照测试
Class	String	PDFCompareTest
√ Params	Array	(2 items)
√ Item 0	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isContainAnnotations
Name	String	Contain Annotations
DefaultValue	Boolean	NO
√ Item 1	Dictionary	(4 items)
ValueType	String	int
Property	String	imageDpi
Name	String	Image DPI
DefaultValue	Number	216

图 2.9.3 参数规则属性配置

三、参数设置规则

参数设置文件，在 Xcode 工程AdvanceSettingPropertyRules.plist 文件中，亦可直接修改位于 App 的如下配置文件中的配置：

```
xxx//KdanAuto.app/Contents/Resources/AdvanceSettingPropertyRules.plist
```

Classs - 测试类型设置

作用于具体文档的具体测试类型，目前有支持的测试类型有：AutoTest（全类型文档，自动转档及快照对照测试）、PDFCompareTest（PDF 文档，逐页快照对比测试）、StringAutoTest（TXT/RTF 文档，自动转档及字符对比测试）、StringAutoCompare（TXT/RTF 文档，字符对比测试）

Class 类型

- 【AutoTest】

- 用途：用于自动化转档到各种类型文档，再进行快照（JPEG 格式），然后将（新旧）快照（JPEG 格式）进行逐个相素对比
- 支持格式：支持全类型格式，PDF、RTF、WORD、PPT、Excel、CSV、HTML、TXT、JPEG、PNG、GIF、TIFF、TGA、BMP、JPEG2000

- 【PDFCompareTest】

- 用途：用于对 PDF 文档，进行逐页快照对比测试；例如，在 Windows 端用命令行工具批量执行出来的结果文档，用该工具进行对照确认
- 支持格式：PDF

- 【StringAutoTest】

- 用途：用于自动化转档到字符化文档（如 TXT、RTF），再将结果文档与初始字符文档进行字符对照测试
- 支持格式：RTF、TXT

- 【StringAutoCompare】

- 用途：用于自动化对比字符化文档（如 TXT、RTF）的结果文档和对照文档，例如在 Windows 端做 OCR 识别，然后在 Mac 端进行结果对比
- 支持格式：RTF、TXT

Class 参数设置

- 示例一

```
//例如 Word 文档进行设置，支持做 【快照对照】  
  
<key>Classs</key>  
<array>  
  <dict>  
    <key>Name</key>  
    <string>快照对照测试</string>  
    <key>Class</key>  
    <string>AutoTest</string>  
  </dict>  
</array>
```

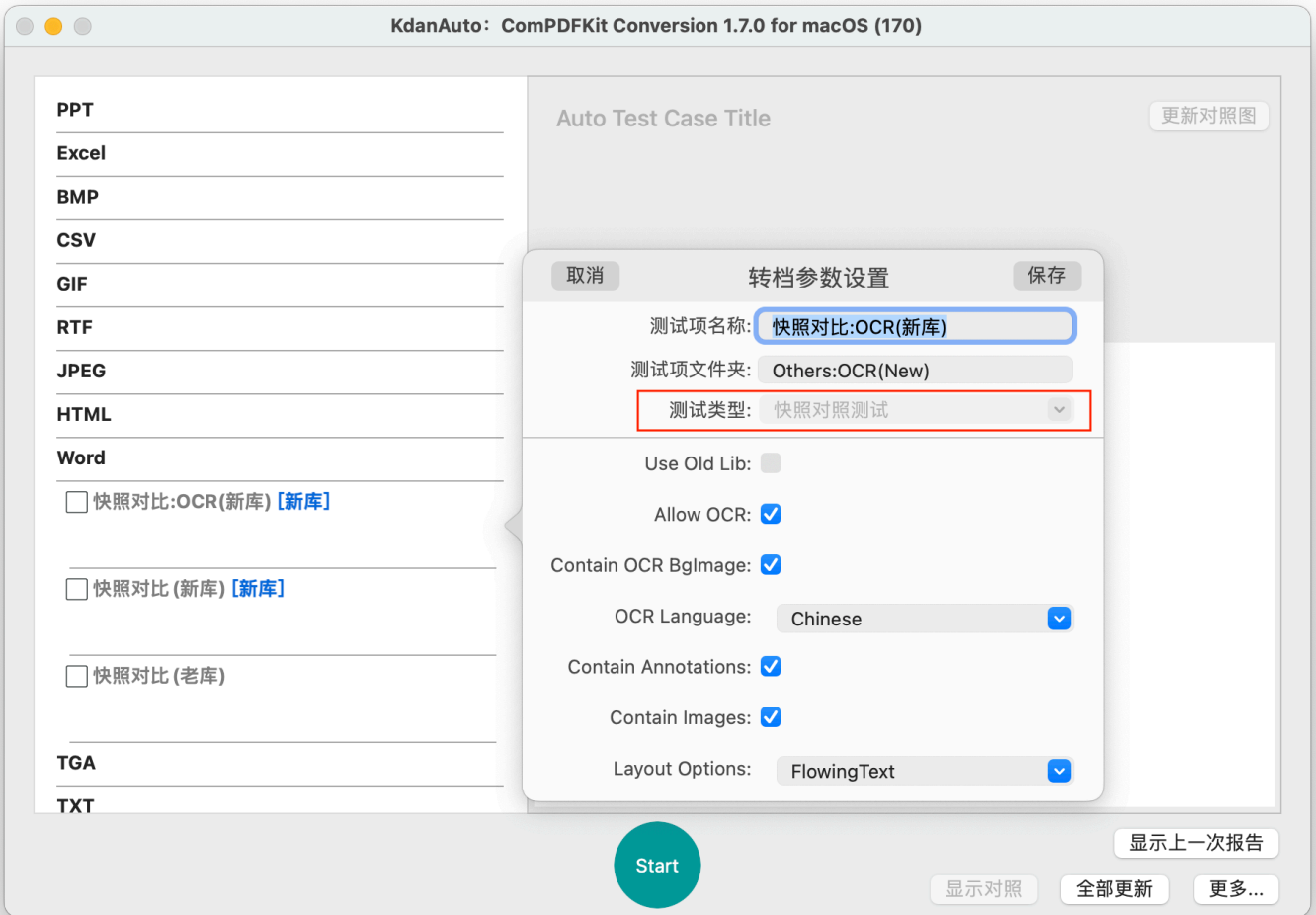


图 3.1.1 Word 格式 Classs 参数设置效果示意图

- 示例二

```
//RTF 文档支持【转档快照对照】、【转档对比测试】、【字符对比操作】
<key>Classs</key>
<array>
  <dict>
    <key>Name</key>
    <string>快照对照测试</string>
    <key>Class</key>
    <string>AutoTest</string>
  </dict>
  <dict>
    <key>Name</key>
    <string>字符对照测试</string>
    <key>Class</key>
    <string>StringAutoTest</string>
  </dict>
  <dict>
    <key>Name</key>
    <string>跨平台字符对比测试</string>
    <key>Class</key>
    <string>StringAutoCompare</string>
  </dict>
</array>
```

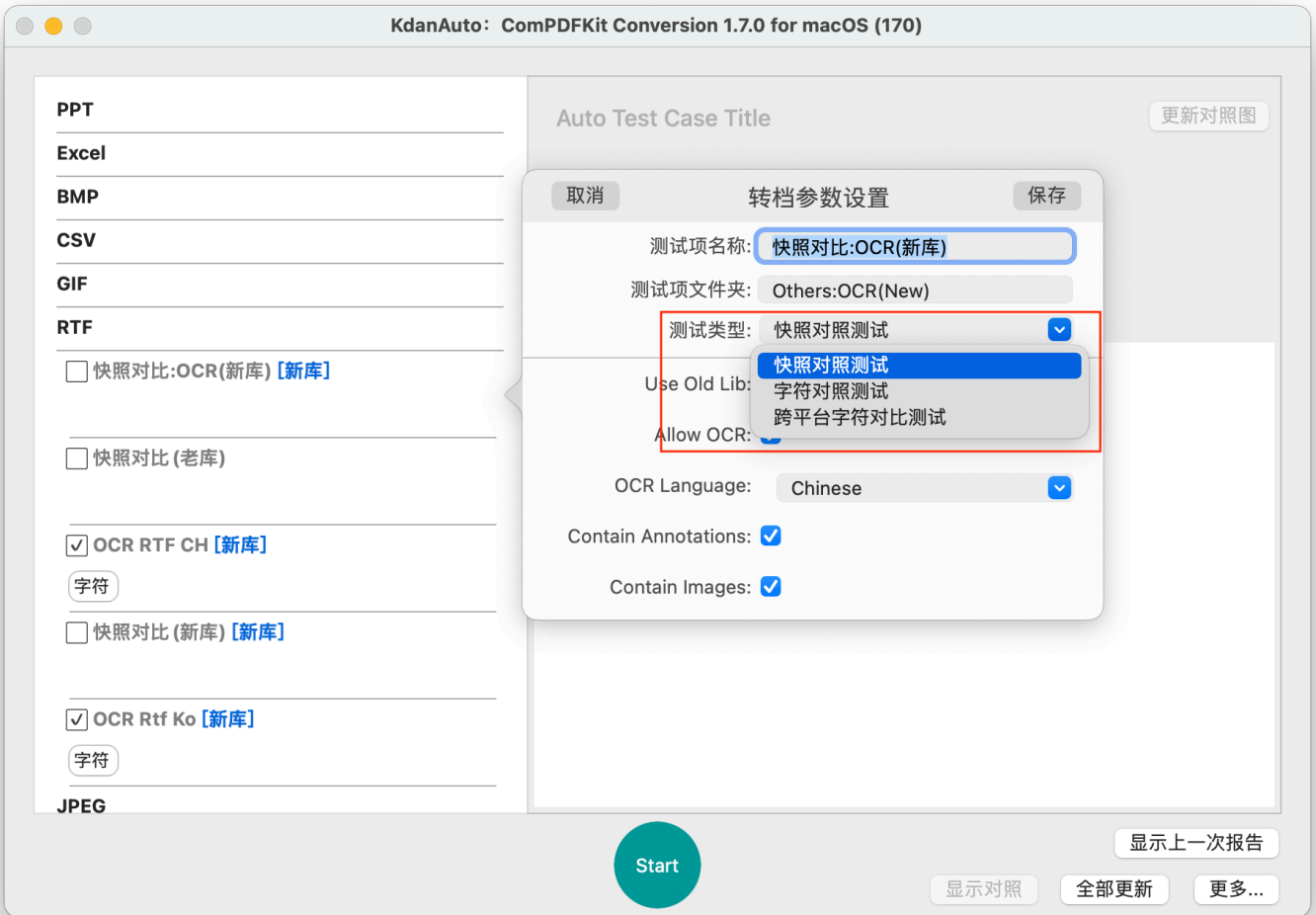


图 3.1.2 RTF 格式 Classs 参数设置效果示意图

Extention - 结果文档格式后缀设置

对应文档类型（转档后）对照(/对比)测试的文档后缀名称，每种格式对应指定一种后缀格式名称，字符串属性值

- PDF: 对应后缀 pdf
- RTF: 对应后缀 rtf
- Word: 对应后缀 docx
- PPT: 对应后缀 pptx
- Excel: 对应后缀 xlsx
- CSV: 对应后缀 csv
- HTML: 对应后缀 html
- TXT: 对应后缀 txt
- JPEG: 对应后缀 jpg
- PNG: 对应后缀 png
- GIF: 对应后缀 gif, 新库暂不支持
- TIFF: 对应后缀 tiff, 新库暂不支持
- TGA: 对应后缀 tga, 新库暂不支持
- BMP: 对应后缀 bmp, 新库暂不支持
- JPEG2000: 对应后缀jp2, 新库暂不支持

Key	Type	Value
√ Root	Dictionary	(10 items)
√ PDF	Dictionary	(3 items)
Extention	String	pdf
> Classs	Array	(1 item)
> Params	Array	(2 items)
√ RTF	Dictionary	(3 items)
Extention	String	rtf
> Classs	Array	(3 items)
> Params	Array	(4 items)
√ Word	Dictionary	(3 items)
Extention	String	docx
> Classs	Array	(1 item)
> Params	Array	(6 items)
√ PPT	Dictionary	(3 items)
Extention	String	pptx
> Classs	Array	(1 item)
> Params	Array	(5 items)
√ Excel	Dictionary	(3 items)
Extention	String	xlsx
> Classs	Array	(1 item)
> Params	Array	(7 items)
√ CSV	Dictionary	(3 items)
> Classs	Array	(1 item)
Extention	String	csv
> Params	Array	(1 item)
√ HTML	Dictionary	(3 items)
> Classs	Array	(1 item)
Extention	String	html
> Params	Array	(5 items)
√ TXT	Dictionary	(3 items)
> Classs	Array	(3 items)
Extention	String	txt
> Params	Array	(2 items)
√ JPEG	Dictionary	(3 items)
> Classs	Array	(1 item)
Extention	String	jpg
> Params	Array	(2 items)
√ PNG	Dictionary	(3 items)
> Classs	Array	(1 item)
Extention	String	png
> Params	Array	(2 items)

图 3.2.1 Extention参数设置示意

Params - 转档控制参数设置

用于控制转档成各种文档过程中的转档控制参数，支持参数种类有

BOOL、*Bool*、*bool*、*size_t*、*int*、*uint8_t*、*int8_t*、*int16_t*、*uint16_t*、*int32_t*、*uint32_t*、*int64_t*、*uint64_t*、*NSInteger*、*NSUInteger*、*float*、*double*、*CGRect*、*NSRect*、*CGSize*、*NS*以及枚举值

【参数设置示例】BOOL

SDK 接口头文件公开的，支持外部设置的BOOI 类型属性

```

如csv 格式转档，控制 csv 表格是否合并的参数 isMergeCSV (如下图)
- 参数类型(ValueType):BOOL
- 属性(Property): isMergeCSV
- 属性别名(Name): Merge CSV (可自定义)
- 默认值(DefaultValue):NO(待定)

```

```
//
// CPDFConvertCsvOptions.h
// ComPDFKit_Conversion
//
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//

#import <ComPDFKit_Conversion/CPDFConvertOptions.h>

/**
 * PDF to CSV conversion parameter object (derived class of CPDFConvertOptions).
 */
@interface CPDFConvertCsvOptions : CPDFConvertOptions

/**
 * Whether to merge CSV when converting.
 */
@property (nonatomic,assign) BOOL isMergeCSV;

@end
```

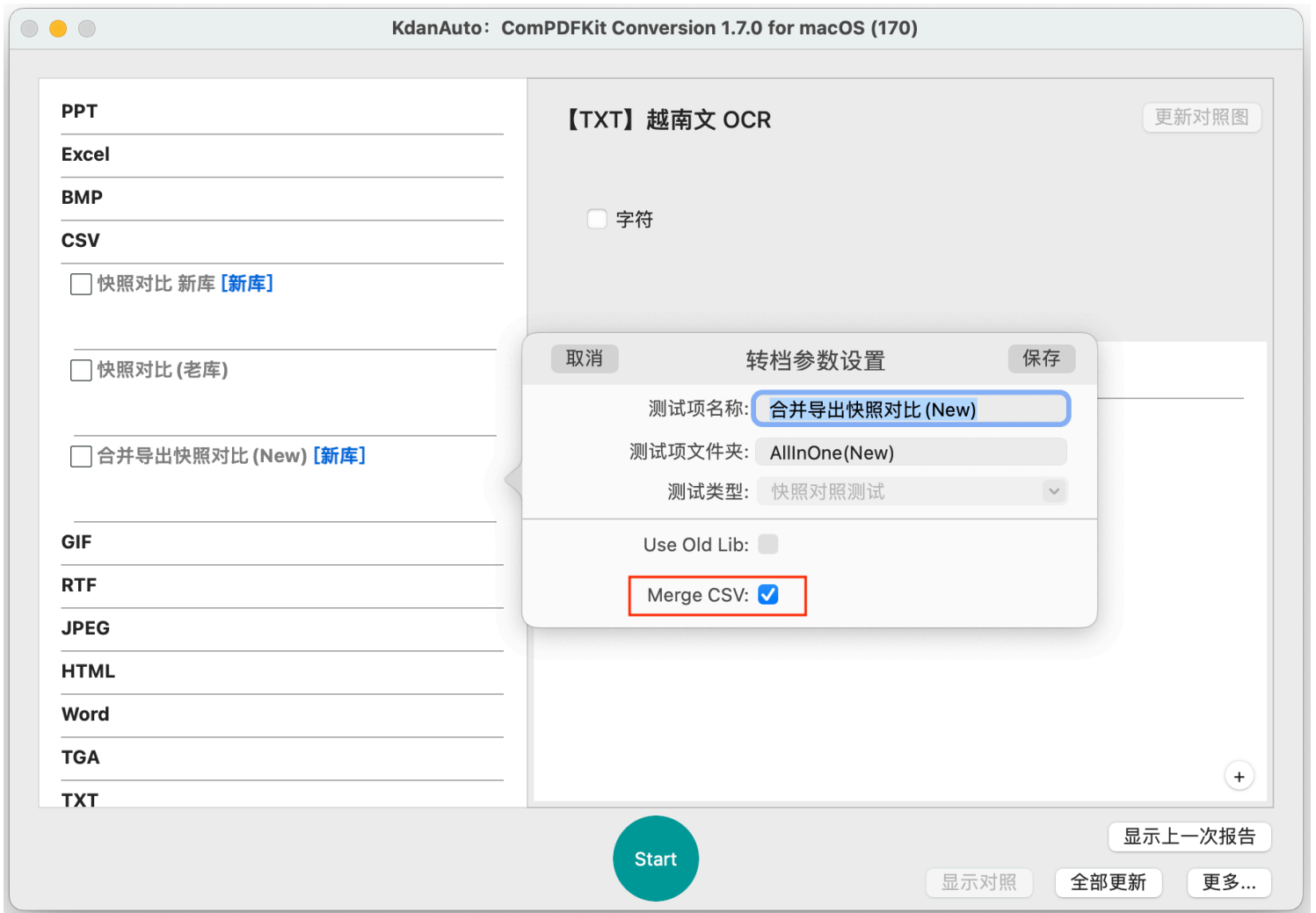
//plist 中对应的设置, 效果如下图

```
<dict>
  <key>ValueType</key>
  <string>BOOL</string>
  <key>Property</key>
  <string>isMergeCSV</string>
  <key>Name</key>
  <string>Merge CSV</string>
  <key>DefaultValue</key>
  <false/>
</dict>
```

KdanAuto > KdanAuto > Class > AdvanceSettingViewController > AdvanceSettingPropertyRules > No Selection

Key	Type	Value
√ Root	Dictionary	(10 items)
> PDF	Dictionary	(3 items)
> RTF	Dictionary	(3 items)
> Word	Dictionary	(3 items)
> PPT	Dictionary	(3 items)
> Excel	Dictionary	(3 items)
√ CSV	Dictionary	(3 items)
> Classs	Array	(1 item)
Extention	String	csv
√ Params	Array	(1 item)
√ Item 0	Dictionary	(4 items)
ValueType	String	BOOL
Property	String	isMergeCSV
Name	String	Merge CSV
DefaultValue	Boolean	NO
> HTML	Dictionary	(3 items)
> TXT	Dictionary	(3 items)
> JPEG	Dictionary	(3 items)
> PNG	Dictionary	(3 items)

在 KdanAuto 参数设置界面呈现的效果



【参数设置示例】NSInteger(枚举)

SDK 接口头文件公开的，支持外部设置的NSInteger（枚举类型）属性

如Excel 格式转档, 控制 Excel 转档的参数 'contentOptions' 和 'worksheetOptions' (如下图)

属性contentOptions相关信息:

- 参数类型(ValueType):CPDFConvertExcelContentOptions, 实际是NSInteger类型
- 属性(Property): contentOptions
- 属性别名(Name): Content Options (可自定)
- 默认值(DefaultValue): 2(对应 CPDFConvertExcelContentAllContent, 待定)
- 枚举值可选项(Values):
 - 选项一:
 - 名称(Name): Only Text(可自定)
 - 参数值(Value): 0
 - 选项二:
 - 名称(Name): Only Table(可自定)
 - 参数值(Value): 1
 - 选项三:
 - 名称(Name): All Content(可自定)
 - 参数值(Value): 2

属性worksheetOptions相关信息:

- 参数类型(ValueType):CPDFConvertExcelWorksheetOptions, 实际是NSInteger类型
- 属性(Property): worksheetOptions
- 属性别名(Name): Worksheet Options (可自定)
- 默认值(DefaultValue): 0(对应 CPDFConvertExcelWorksheetForEachTable, 待定)
- 枚举值可选项(Values):
 - 选项一:
 - 名称(Name): EachTable(可自定)
 - 参数值(Value): 0
 - 选项二:
 - 名称(Name): EachPage(可自定)
 - 参数值(Value): 1
 - 选项三:
 - 名称(Name): For The Document(可自定)
 - 参数值(Value): 2

```
//
// CPDFConvertExcelOptions.h
// ComPDFKit_Conversion
//
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//
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//

#import <ComPDFKit_Conversion/CPDFConvertOptions.h>

typedef NS_ENUM(NSUInteger, CPDFConvertExcelContentOptions) {
    CPDFConvertExcelContentOnlyText = 0, // Only extract text in PDF and write it to XLSX without extracting the
    table.
    CPDFConvertExcelContentOnlyTable = 1, // Only extract table in PDF and write it to XLSX.
    CPDFConvertExcelContentAllContent = 2 // Extract all content in PDF and write it to XLSX, including table and non-
    table content.
};

typedef NS_ENUM(NSUInteger, CPDFConvertExcelWorksheetOptions) {
    CPDFConvertExcelWorksheetForEachTable = 0, // Each table in the PDF is converted to one separate Worksheet.
    CPDFConvertExcelWorksheetForEachPage = 1, // All tables on one page in the PDF are converted to one separate
    Worksheet.
    CPDFConvertExcelWorksheetForTheDocument = 2 // All tables in the entire PDF are converted to one separate
    Worksheet.
};

/**
 * PDF to Excel conversion parameter object(derived class of CPDFConvertOptions).
 */
@interface CPDFConvertExcelOptions : CPDFConvertOptions

/**
 * Options to extract content.
 */
@property (nonatomic,assign) CPDFConvertExcelContentOptions contentOptions;

/**
 * Options to create Worksheet.
 */
@property (nonatomic,assign) CPDFConvertExcelWorksheetOptions worksheetOptions;

/**
 * Whether to use OCR.
 */
@property (nonatomic,assign) BOOL isAllowOCR;

/**
 * Whether the OCR background image is contained,this takes effect only when IsAllowOCR is true.
 */
@property (nonatomic,assign) BOOL isContainOCRBgImage;

/**
 * Set the OCR language,this takes effect only when IsAllowOCR is true.
 */
@property (nonatomic,assign) COCRLanguage language;

/**
 * Whether to contain annotations when converting.
 */
@property (nonatomic,assign) BOOL isContainAnnotations;

/**
 * Whether to contain images when converting.
 */
@property (nonatomic,assign) BOOL isContainImages;

@end
```

//plist 中contentOptions属性对应的设置, 效果如下图

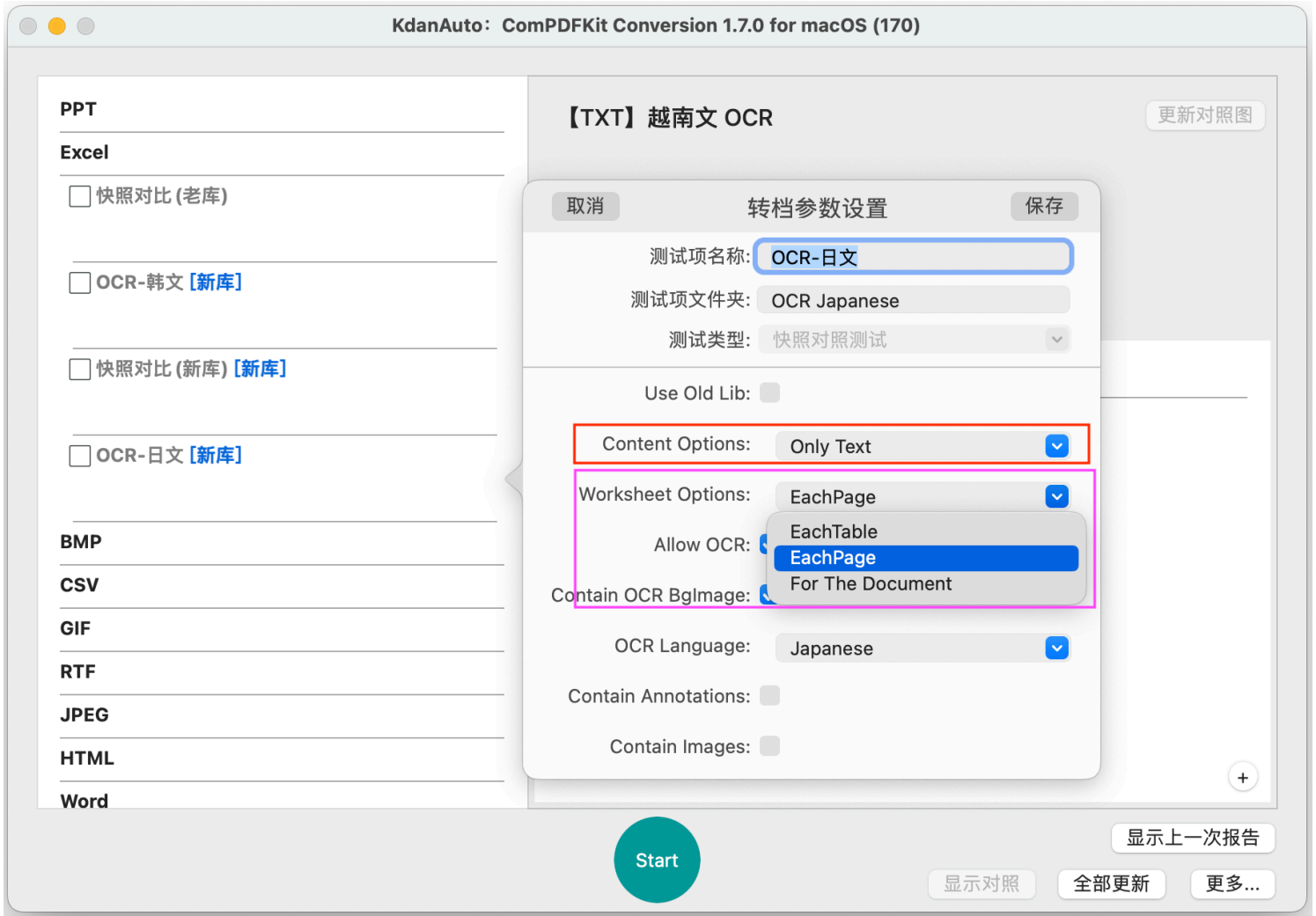
```
<dict>
  <key>ValueType</key>
  <string>NSInteger</string>
  <key>Property</key>
  <string>contentOptions</string>
  <key>Name</key>
  <string>Content Options</string>
  <key>DefaultValue</key>
  <integer>2</integer>
  <key>Values</key>
  <array>
    <dict>
      <key>Value</key>
      <integer>0</integer>
      <key>Name</key>
      <string>Only Text</string>
    </dict>
    <dict>
      <key>Value</key>
      <integer>1</integer>
      <key>Name</key>
      <string>Only Table</string>
    </dict>
    <dict>
      <key>Value</key>
      <integer>2</integer>
      <key>Name</key>
      <string>All Content</string>
    </dict>
  </array>
</dict>
```

//plist 中worksheetOptions属性对应的设置, 效果如下图

```
<dict>
  <key>ValueType</key>
  <string>NSInteger</string>
  <key>Property</key>
  <string>worksheetOptions</string>
  <key>Name</key>
  <string>Worksheet Options</string>
  <key>DefaultValue</key>
  <real>0</real>
  <key>Values</key>
  <array>
    <dict>
      <key>Value</key>
      <integer>0</integer>
      <key>Name</key>
      <string>EachTable</string>
    </dict>
    <dict>
      <key>Value</key>
      <integer>1</integer>
      <key>Name</key>
      <string>EachPage</string>
    </dict>
    <dict>
      <key>Value</key>
      <integer>2</integer>
      <key>Name</key>
      <string>For The Document</string>
    </dict>
  </array>
</dict>
```

Key	Type	Value
√ Root	Dictionary	(10 items)
> PDF	Dictionary	(3 items)
> RTF	Dictionary	(3 items)
> Word	Dictionary	(3 items)
> PPT	Dictionary	(3 items)
√ Excel	Dictionary	(3 items)
Extention	String	xlsx
> Classs	Array	(1 item)
√ Params	Array	⌵ (7 items)
√ Item 0	Dictionary	(5 items)
ValueType	String	NSInteger
Property	String	contentOptions
Name	String	Content Options
DefaultValue	Number	2
√ Values	Array	(3 items)
√ Item 0	Dictionary	(2 items)
Value	Number	0
Name	String	Only Text
√ Item 1	Dictionary	(2 items)
Value	Number	1
Name	String	Only Table
√ Item 2	Dictionary	(2 items)
Value	Number	2
Name	String	All Content
√ Item 1	Dictionary	(5 items)
ValueType	String	NSInteger
Property	String	worksheetOptions
Name	String	Worksheet Options
DefaultValue	Number	0
√ Values	Array	(3 items)
√ Item 0	Dictionary	(2 items)
Value	Number	0
Name	String	EachTable
√ Item 1	Dictionary	(2 items)
Value	Number	1
Name	String	EachPage
√ Item 2	Dictionary	(2 items)
Value	Number	2
Name	String	For The Document
> Item 2	Dictionary	(4 items)
> Item 3	Dictionary	(4 items)
> Item 4	Dictionary	(5 items)
> Item 5	Dictionary	(4 items)
> Item 6	Dictionary	(4 items)
> CSV	Dictionary	(3 items)

在 KdanAuto 参数设置界面呈现的效果



【参数设置示例】int

SDK 接口头文件公开的，支持外部设置的int 类型属性

- 如Img 格式转档，控制 图片清晰度的 DPI 参数 'imageDpi' (如下图)
- 参数类型(ValueType):int
 - 属性(Property): imageDpi
 - 属性别名(Name): Image DPI (可自定)
 - 默认值(DefaultValue):216(待定)

```
//
// CPDFConvertImgOptions.h
// ComPDFKit_Conversion
//
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//
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//

#import <ComPDFKit_Conversion/CPDFConvertOptions.h>

typedef NS_ENUM(NSUInteger, CPDFConvertImgType) {
    CPDFConvertImgTypeJPEG = 0,
    CPDFConvertImgTypePNG = 1
};

/**
 * PDF to Image conversion parameter object (derived class of CPDFConvertOptions).
 */
@interface CPDFConvertImgOptions : CPDFConvertOptions

/**
 * Sets the image type.
 *
 * @see CPDFConvertImgType
 */
@property (nonatomic,assign) CPDFConvertImgType type;

/**
 * Whether to contain annotations when converting.
 */
@property (nonatomic,assign) BOOL isContainAnnotations;

/**
 * Sets the image Dpi.
 */
@property (nonatomic,assign) int imageDpi;

@end
```

//plist 中对应的设置，效果如下图

```
<dict>
    <key>ValueType</key>
    <string>int</string>
    <key>Property</key>
    <string>imageDpi</string>
    <key>Name</key>
    <string>Image DPI</string>
    <key>DefaultValue</key>
    <integer>216</integer>
</dict>
```

Key	Type	Value
√ Root	Dictionary	(10 items)
> PDF	Dictionary	(3 items)
> RTF	Dictionary	(3 items)
> Word	Dictionary	(3 items)
> PPT	Dictionary	(3 items)
> Excel	Dictionary	(3 items)
> CSV	Dictionary	(3 items)
> HTML	Dictionary	(3 items)
> TXT	Dictionary	(3 items)
√ JPEG	Dictionary	(3 items)
> Classes	Array	(1 item)
Extention	String	jpg
√ Params	Array	(2 items)
√ Item 0	Dictionary	(4 items)
ValueType	String	int
Property	String	imageDpi
Name	String	Image DPI
DefaultValue	Number	216
> Item 1	Dictionary	(4 items)
> PNG	Dictionary	(3 items)

在 KdanAuto 参数设置界面呈现的效果

