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**In 1949** RCA engineers worked on the first primitive computer-type OCR to help blind people for the US Veterans Administration, but instead of converting the printed characters to machine language, their device converted it to machine language and then spoke the letters. It proved far too expensive and was not pursued after testing.<sup>[1]</sup>

**In 1950**, David H. Shepard, a cryptanalyst at the Armed Forces Security Agency in the United States, addressed the problem of converting printed messages into machine language for computer processing and built a machine to do this, reported in the Washington Daily News on 27 April 1951 and in the New York Times on 26 December 1953 after his U.S. Patent 2,663,758 was issued. Shepard then founded Intelligent Machines Research Corporation (IMR), which went on to deliver the world's first several OCR systems used in commercial operation.

**In 1955**, the first commercial system was installed at the Reader's Digest. The second system was sold to the Standard Oil Company for reading credit card imprints for billing purposes. Other systems sold by IMR during the late 1950s included a bill stub reader to the Ohio Bell Telephone Company and a page scanner to the United States Air Force for reading and transmitting by teletype typewritten messages. IBM and others were later licensed on Shepard's OCR patents.

**In about 1965**, Reader's Digest and RCA collaborated to build an OCR Document reader designed to digitise the serial numbers on Reader's Digest coupons returned from advertisements. The fonts used on the documents were printed by an RCA Drum printer using the OCR-A font. The reader was connected directly to an RCA 301 computer (one of the first solid state computers). This reader was followed by a specialised document reader installed at TWA where the reader processed Airline Ticket stock. The readers processed documents at a rate of 1,500 documents per minute, and checked each document, rejecting those it was not able to process correctly. The product became part of the RCA product line as a reader designed to process "Turn around Documents" such as those utility and insurance bills returned with payments.

The United States Postal Service has been using OCR machines to sort mail since 1965 based on technology devised primarily by the prolific inventor Jacob Rabinow. The first use of OCR in Europe was by the British General Post Office (GPO). In 1965 it began planning an entire banking system, the National Giro, using OCR technology, a process that revolutionized bill payment systems in the UK. Canada Post has been using OCR systems since 1971<sup>[citation needed]</sup>. OCR systems read the name and address of the addressee at the first mechanised sorting center, and print a routing bar code on the envelope based on the postal code. To avoid confusion with the human-readable address field which can be located anywhere on the letter, special ink (orange in visible light) is used that is clearly visible under ultraviolet light. Envelopes may then be processed with equipment based on simple barcode readers.

**In 1974** Ray Kurzweil started the company Kurzweil Computer Products, Inc. and led development of the first omni-font optical character recognition system — a computer program capable of recognizing text printed in any normal font. He decided that the best application of this technology would be to create a reading machine for the blind, which would allow blind people to have a computer read text to them out loud. This device required the invention of two enabling technologies — the CCD flatbed scanner and the text-to-speech synthesizer. On January 13, 1976 the successful finished product was unveiled during a widely-reported news

# Green County Animal Shelter

## ADOPTION/MEDICAL CONTRACT

(Non-Transferable)

Contract No. ABC-157890

License No. DXY-23-FP

Receipt No. 1234

Animal ID No. 56780

Green County Animal Shelter  
1234 Green Drive  
Qweencity, QC 123456  
(123) 456-7890

This contract is made between Yan Yanovich Address Green Drive 145, Qweencity QC 1245678  
Phone No. 145-678-908 and Green County Animal Shelter on, (date) 12/03/07. The fee for adoption is \$25.00 which  
is refundable only when said terms of this contract are met and conditions specified apply.

- I. The Wilson County Animal Shelter agrees to the following:
- A. To give the adopter a receipt when he/she assumes possession and control of the animal described herein:  
Breed cat Color brown Sex male
- B. To exchange or make refund on any animal that requires major medical treatment as certified by a veterinarian or dies from natural causes within 7 calendar days from the date of adoption; either must be requested by adopter only.
- C. To exchange or make refund on any animal that exhibits unusual or unpredictable behavioral tendencies within 7 calendar days from the date of adoption; either must be requested by the adopter only.
- D. The terms of this contract expires at 5:00 p.m. on (date) 12/03/07.
- II. Participating veterinary hospitals agree to provide the services stated herein for animals adopted from the Wilson County Animal Shelter at no charge to the adopter and these services must be performed to validate the terms of this contract except  
as pertains to death from natural causes. A free examination will be given to include a visual and physical examination including a check of temperature, pulse, respiration, eyes, gum coloring, ears, and palpating the abdomen. The examination  
**DOES NOT** include any lab fees, vaccinations, or medications. These services included will be provided on a one time basis only.
- III. In return, as adopter, I Yan Yanovich, agree to the following:
- A. To take the animal to a participating veterinary hospital within stated period of time, which is 7 calendar days, to receive initial free examination. **Form A must be completed by attending licensed veterinarian.**
- B. The animal will not be allowed to breed indiscriminately. As the adopter, I agree to provide adequate food, water, shelter, and exercise and agree to obey all applicable laws governing control and custody of the animal, to include, but not limited to, the proper confinement laws and wearing of tags as applicable.
- C. To provide with proper veterinary care as related to the specific type of animal. This is meant to include any yearly or other vaccinations, any needed medications or other special care as needed.
- D. **To exchange an animal, I understand that I must follow these specific criteria:**
1. I must have complied with Article A of this section.
  2. The animal must be in such poor health that major medical treatment is necessary, unless #3 in this section applies. Minor parasitical treatment is not considered a major medical problem.
  3. If the above free examination has been performed and the animal's behavior is unacceptable (this is not to cover housetraining or any other trainable characteristic) to your household or living conditions, a refund may be made with the proper completion of Form B.
  4. The animal along with the veterinarians completion of Form A shall be brought to the Animal Shelter, or in the event of the animal's death, the carcass and/or other satisfactory evidence of the death and date of death must be presented. Terms of this contract will recognize death by natural causes only.
  5. The request for a refund or exchange must be made by the date and time specified in Section I, Article D of this contract.
  6. No refund or substitution shall be given for the animal that has been lost, stolen, or killed.

I understand the adoption contract requirements and further agree that failure to comply with this contract will result in the animal



## D. Brawn Manufacture

Invoice no. DVT-AX-345678

Payment date: 03/12/2006

Reference	Designation	Qty	Unit price	Total CHF	Sales
<b>Work</b>					
SERVICE D	COMPLETE OVERHAUL	1	5500.00	5500.00	220
SERVICE D	REFRESHING COMPLETE CASE AND RHODIUM BATH	1	380.00	380.00	220
<b>Exterior parts:</b>					
JO.297.065.FP	FLAT GASKET	1	3.00	3.00	220
JO.197.075.FP	FLAT GASKET	1	4.00	4.00	220
JO.199.059.OS	FLAT ROUND GASKET	1	6.00	6.00	220
VI.261.036.BC	W.G.FIXATION SCREWS	10	4.00	40.00	220
AI.465.055.BC	WHITE GOLD "FOIL" PAIR OF HAND LENGTH: 10/13.50MM CALIBRE 2868	1	70.00	70.00	220
<b>SPECIAL DISCOUNT</b>			<b>-3003.00</b>	<b>-3003.00</b>	
<b>Discount</b>			<b>-900.00</b>	<b>-900.00</b>	
<b>Total CHF</b>				<b>2100.00</b>	

RETURN AFTER REPAIR  
NO COMMERCIAL VALUE

Payment:

Mr. John Doe  
Green Street 15, Office 4  
1234 Vermut  
New Caledonia

Credit Card: Visa  
Card No: 112345678

18 October 2006

Greg White, Secretary  
321 Green Ave. GX, Room 123  
Foxcity, FX 12345

Dear Mr. White:

This is a request for an investigation of companies that conduct so-called "free marketing," which is a technique by which corporations seek to influence buying decisions, often by stealth. There is evidence that some of these companies are perpetrating large-scale deception upon consumers by deploying free marketers who fail to disclose that they have been enlisted to promote products.

This failure to disclose is fundamentally fraudulent and misleading; and it might violate prohibitions against unfair or deceptive acts and practices affecting commerce. An investigation by the Commission could lead to actions against individual free marketers, and/or to new guidelines requiring disclosure by any and all persons who are paid to engage in free marketing operations.

Fraud is fraud, and a harmless-sounding name such as "free marketing" doesn't change that.

Sincerely,

Fred Vert,  
Executive Director



## THE POETIC SOCIETY

John Grey  
Chief Editor  
"New World, New Light"  
Green Road 15, Office 23  
Greencity  
New Zealand  
FT24 8UC

4 September 2006

Dear John,

In 2000, with an invitation from Tree Press Editor Brian Dorn, *The Poetic Society* agreed to sponsor the New Light Prize in Poetry for a First Book. As chairman of the Poetic Society, I consented with pleasure to serve as final judge for the contest – an annual award to recognize and publish a poet's first collection. The plans for the press were ambitious: *The Book Review* would sponsor a book prize to be given to any poet, previously published or not; *Blue Sky* would sponsor a criticism prize; and *Tree Press* would publish other books of drama, fiction, and poetry.

I am proud of the books selected for the New Light Prize—books by Greg Best, Lilly Black, Rose Red, and most recently Fred White. The books have been handsome, widely reviewed, and well received.

Or three of them have been. Lilly Black was awarded the 2004 prize, but her book has yet to appear. I wrote an introduction to *Joyful Day* – her brilliant, darkly adventurous book of lyrics –

## Differences between FineReader versions

	supplied with your scanner	for beginners	for home	for office
	Sprint 4.0	StartUp 5.0	Pro 5.0	Office 5.0
<b>Recognition</b>				
Recognition quality		Recognition quality better by 1,5-2 times	Recognition quality better by 1,5-2 times	Recognition quality better by 1,5-2 times
Recognition of superscript, subscript and dropped capitals			+	+
Barcode recognition				+
<b>Language support</b>				
Recognition languages	53 languages	12 languages <sup>1</sup>	176 languages	176 languages
Multilingual document recognition			+	+
Built-in spelling check			30 languages	30 languages
Pattern training for new symbols			+	+
Creation of new languages				+
<b>Saving</b>				
Saving in MS Word, MS Excel, Word Pro, WordPerfect, StarWriter	+	+	+	+
Saving in HTML, PDF, RTF, DOC, XLS, DBF, CSV, and TXT formats	Only RTF, TXT	All save PDF, HTML	+	+
Export via ODMA				+
<b>Interface</b>				
OCR Wizard		+	+	+
Built-in editor			+	+
<b>Network</b>				
Network installation				+
Distributed document processing over a network				+
Control of licences run simultaneously				+
<b>Professional features</b>				
Background recognition			+	+
Batch work			+	+
Multiprocessing support				+
FormFiller				+
Correspondence between version of 4.0 series and 5.0 series	Sprint	StartUp	Standard	Professional

<sup>1</sup> - English, Dutch (Standard, Belgium), Spanish, Italian, German (Standard, New Spelling), Portuguese (Standard, Brazilian), Russian, Turkish, French.

		Demographic data and estimates					Area, Density, Capital City			
		Population Mid-2002 (millions)	Projected Population (millions) 2025	Percent of Population of Age		Life Expectancy at Birth (years)	Area of Countries (square miles)	Pop. per Square Mile	Capital City	
				<15	65+					
<b>WORLD</b>		<b>6,215</b>	<b>7,859</b>	<b>30</b>	<b>7</b>	<b>67</b>	<b>51,789,601</b>	<b>120</b>		
<b>MORE DEVELOPED</b>		<b>1,197</b>	<b>1,249</b>	<b>18</b>	<b>15</b>	<b>76</b>	<b>19,814,584</b>	<b>60</b>		
<b>LESS DEVELOPED</b>		<b>5,018</b>	<b>6,61</b>	<b>33</b>	<b>5</b>	<b>65</b>	<b>31,975,017</b>	<b>157</b>		
<b>AFRICA</b>	 Egypt	71.2	96.1	36	4	66	386,66	184	Cairo	
	 Nigeria	129.9	204.5	44	3	52	356,668	364	Abuja	
	 Ethiopia	67.7	117.6	44	3	52	426,371	159	Addis Ababa	
	 Tanzania	37.2	59.8	45	3	52	364,9	102	Dodoma	
	 Congo, Dem. Rep. of	55.2	106.0	48	3	49	905,351	61	Kinshasa	
	 South Africa	43.6	35.1	34	5	51	471,444	93	Pretoria	
<b>AMERICA</b>	 Canada	31.3	36.0	19	13	79	3,849,670	8	Ottawa	
	 United States	287.4	346.0	21	13	77	3,717,796	77	Washington, DC	
	 Mexico	101.7	131.7	33	5	75	756,062	135	Mexico City	
	 Argentina	36.5	47.2	28	10	74	1,073,514	34	Buenos Aires	
	 Brazil	173.8	219.0	30	6	69	3,300,154	53	Brasilia	
	 Colombia	43.8	59.7	33	5	71	439,734	100	Bogota	
<b>ASIA</b>	Australia & Oceania	32	40	25	10	75	3,306,741	10		
	 Bangladesh	133.6	177.8	40	3	59	55,598	2,403	Dhaka	
	 India	1,049.5	1,363.0	36	4	63	1,269,340	827	New Delhi	
	 Pakistan	143.5	242.1	42	4	63	307,375	467	Islamabad	
	 Indonesia	217.0	281.9	31	5	68	735,355	295	Jakarta	
	 Philippines	80.0	115.5	37	4	68	115,83	691	Manila	
	 Vietnam	79.7	104.1	31	6	68	128,066	622	Hanoi	
	 China	1,280.7	1,454.7	23	7	71	3,696,100	347	Beijing	
	 Japan	127.4	121.1	14	18	81	145,869	873	Tokyo	
	 United Kingdom	60.2	64.8	19	16	78	94,548	637	London	
<b>EUROPA</b>	 France	59.5	64.2	19	16	79	212,934	279	Paris	
	 Germany	82.4	78.1	16	16	78	137,83	598	Berlin	
	 Russia	143.5	129.1	18	13	65	6,592,819	22	Moscow	
	 Italy	58.1	57.5	14	19	80	116,32	499	Rome	

## Hot Keys

To:	Press:
<b>The File menu</b>	
Open image from file	CTRL+O
Scan image	CTRL+K
Scan multiple images	CTRL+SHIFT+K
Stop scanning	CTRL+T
Create new batch	CTRL+N
Open a batch	CTRL+P
Save text to file	F2
Save image to file	F12
<b>The Edit menu</b>	
Undo the last action	CTRL+Z
Redo the last undone action	CTRL+Y
Cut the selection and put it to the clipboard	CTRL+X
Copy the selection to the clipboard	CTRL+INS or CTRL+C
Paste the clipboard contents	CTRL+V or SHIFT+INS
Delete the active block, the selection, the selected pages	DEL
Find the specified text	CTRL+F
Find the next occurrence of the search text	F3
Search for and replace the specified text	CTRL+H
<b>The View menu</b>	
Magnify the image in the Image window	CTRL+SHIFT+NUM+
Zoom Out the image in the Image window	CTRL+SHIFT+NUM-
Zoom In to selected blocks	CTRL+SHIFT+NUM*
Properties	ALT+ENTER
<b>The Batch menu</b>	
Open next batch page	ALT+Down
Open previous batch page	ALT+Up
Open page with specified number	CTRL+G
Close the current page	CTRL+4
Delete the recognized text in the Text window	CTRL+SHIFT+Del

## **Capture Front-ends Linked to Backend Systems and Web Applications**

Existing applications can be improved or extended using OCR for easy capture of input of data to a networked backend system or Web application. For example:

- Mobile capture for CRM - take a picture of a business card for input into a CRM system or sales lead database
- Mobile capture for Workflow - take a picture of a document for fast input into a workflow application
- Client/server text conversion and processing - collecting pieces of texts and other data via mobile phone camera and sending to a Web or other server for processing. Mobile OCR can be used for pre-recognition and to check image quality, before sending to a server for processing.

## English

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# ABBYY®

## Extend functionality of mobile devices with ABBYY technology!

*ABBYY, a leading provider of text recognition, data capture and linguistic software, has implemented its technologies into a new generation of applications and tools for mobile devices:*

### **ABBYY mobile text recognition and translation applications**

ABBYY mobile solutions allow users to turn their devices into a portable scanner, smart translation assistant, or efficient contact management tool:

- **ABBYY FotoTranslate** provides the easiest and fastest way to translate words by simply taking an image of text with a built-in camera on mobile devices.
- **ABBYY Lingvo Mobile** is a multilingual dictionary for mobile devices that provides accurate translation of words and word combinations at any time and place.
- **ABBYY Tutor** is a vocabulary building application which allows users to easily and effectively memorize foreign words.
- **ABBYY Business Card Reader** automatically captures and stores contact information from a business card into the mobile phone's address book.

### **ABBYY OCR toolkit for mobile software developers**

ABBYY Mobile OCR Engine delivers the OCR technology that underlies the

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# ABBYY PDF Transformer™ 2.0 Pro

Powerful PDF Conversion and Creation Made Easy



ABBYY PDF Transformer 2.0 Pro combines both PDF conversion and PDF creation functionality in a single utility. It accurately transforms any type of PDF file into editable formats with a single mouse click. The product also features one-click PDF creation from within Microsoft® Office applications. PDF Transformer is the only PDF utility in its class that converts image-only PDF files, generated by scanners and MFPs, into searchable PDF files. This efficient program precisely retains layouts and formats of the original documents. With a user-friendly interface, PDF Transformer gives users flexibility in converting and creating PDF files without training.

## Comprehensive PDF Conversion and PDF Creation

PDF Transformer 2.0 Pro combines two utilities in a single package, offering PDF conversion and PDF creation. This high-productivity software lets users transform PDF files into editable formats and create searchable PDF documents from within Microsoft Office applications.

## One-click Processing

PDF Transformer 2.0 Pro provides a quick tool to work with PDF documents. Simply convert PDF files into editable documents or instantly turn an office document into a PDF file with a click of the mouse.

## Open ANY Type of PDF File

PDF Transformer 2.0 Pro processes any type of PDF file, including scanned PDFs, searchable PDFs, password-protected PDFs, PDFs with text in curves and PDFs with text in non-standard encoding. PDF Transformer 2.0 Pro instantly converts any PDF file into an editable format while preserving the original layout and formatting.

## Create PDF Files Directly from Microsoft Office Applications

PDF Transformer 2.0 Pro is fully integrated with Microsoft Office. Create a PDF file directly from within a Microsoft Word document, Excel® table, PowerPoint® presentation or Visio® diagram. The PDF file can also be saved or sent as an e-mail attachment without launching PDF Transformer.

## Turn Scanned PDFs to Searchable PDFs

PDF Transformer 2.0 Pro is the only PDF conversion utility in its class that allows users to translate any scanned PDF images, generated from a scanner or multi-function peripheral (MFP), into searchable PDF documents.

## Create Secured PDF Files

PDF Transformer 2.0 Pro supports the latest PDF security settings. The solution allows users to set permissions to restrict certain operations, such as printing, extracting content, editing and adding/removing pages.

## Save Internal Links and Hyperlinks in Output Documents

When converting and creating a PDF file, PDF Transformer 2.0 Pro automatically preserves all internal links and hyperlinks from the original document and reconstructs them into an output file.

## User-friendly Interface

PDF Transformer 2.0 Pro features a new view-style interface. It gives users the flexibility to look through the entire PDF document and/or select desired pages or areas prior to starting the conversion process. The program also provides additional tools that allow users to manually select the conversion areas and block types in PDFs with complicated layouts.

## Product Benefits

### Easy to Use

With a single mouse click you can convert PDF files to editable documents or turn an office document into a searchable PDF file. The user-friendly interface allows you to perform these tasks to be confident and efficient.

### Quick

When converting scanned documents, PDF Transformer 2.0 Pro is two times faster than the previous version of the product. The new product transforms PDF files with layout retention, with no need to retype or reformat the document.

### Accurate

When converting PDFs to office documents PDF Transformer Pro 2.0 is up to 30% more accurate than the previous version of the product.

### Flexible

Processes all types of PDF files, including image-only PDFs generated from scanners, MFPs or digital copiers.

### Cost-effective

With two utilities in one, ABBYY PDF Transformer 2.0 Pro is the right choice for your routine PDF conversion and PDF creation tasks.

### Free Technical Support

ABBYY offers free technical support to all registered users.

### Compliant with Section 508

ABBYY  
PDF Transformer  
Pro 2.0



# ABBYY

## ABBYY Mobile OCR Engine 3.0

### Compact Code OCR for Mobile Devices



### What is the ABBYY Mobile OCR Engine SDK?

The ABBYY Mobile OCR Engine 3.0 Software Development Kit (SDK) is a specialised toolkit for empowering mobile and other "compact" applications with text recognition and conversion capabilities. ABBYY's specially developed "compact code OCR" is optimised to deliver a highly accurate conversion of image files into text using a small amount of memory and system resources. Platform independence ensures support for such operating systems as Android, Linux, Symbian, Windows and Windows Mobile.

### Your Mobile Application with the Power of OCR

ABBYY OCR technology transforms images into manageable text which can be saved, stored, edited or sent via web, web services, email or SMS. Applications based on the Mobile OCR Engine 3.0 will transform notes, business cards, newspaper clippings, menus and other texts captured via a mobile imaging device into data which can easily be embedded into other applications. Examples of applications which can be enhanced with ABBYY Mobile OCR Engine include:

#### Camera Smartphone/PDA Applications:

Take full advantage of cameras on mobile devices. Photo menus, signs and posters, business cards, and other documents can be converted into text for easier input into a variety of applications such as:

- Phone and address books
- Calendars
- Task lists
- All-in-one personal information managers (PIMs)
- Business card readers

#### Capture Front-ends Linked to Backend Systems and Web Applications

Existing applications can be improved or extended using OCR for easy capture of input of data to a networked backend system or Web application. For example:

- Mobile capture for CRM - take a picture of a business card for input into a CRM system or sales lead database
- Mobile capture for Workflow - take a picture of a document for fast input into a workflow application
- Client/server text conversion and

#### Benefits of the ABBYY OCR Engine SDK

- Easy integration of high performance text recognition capabilities
- Business card recognition
- Platform independence - supporting such systems as Windows Mobile, Symbian, Android™ and Linux Systems
- Optimised memory management and efficient loading for high performance
- Multilingual support
- Sample application and test shell
- Sophisticated OCR functionality:
- Extremely accurate text conversion
- Multi-column document