



Evidence based practice

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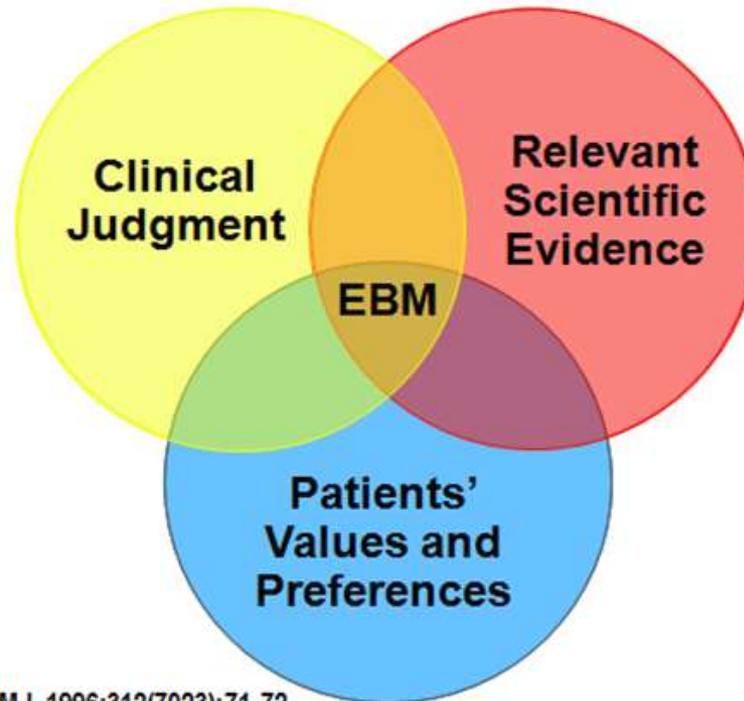
Evidence based practice

- *It is a problem solving approach to clinical practice and administrative issues that integrates:*
 - A systematic search for and critical appraisal of the most relevant evidence to answer a burning clinical question
 - One's own clinical expertise
 - Patient preferences and values (Melnik & Fineout-Overholt, 2014)
- The EBP process is a method that allows the practitioner to assess research, clinical guidelines, and other information resources based on high quality findings and apply the results to practice.



Evidence-based medicine (EBM)

What Is Evidence-Based Medicine?



Sackett DL, et al. BMJ. 1996;312(7023):71-72.



Statistics

- **Statistics** is a scientific area dealing with the collection, analysis, interpretation, presentation, and organization of data.



Statistics - Classification

- Descriptive statistics:
 - Summarize or describe a collection of data
- Inferential statistics:
 - Used to draw inferences about a population from a sample



Statistics

- Is about statistical sets not about individuals



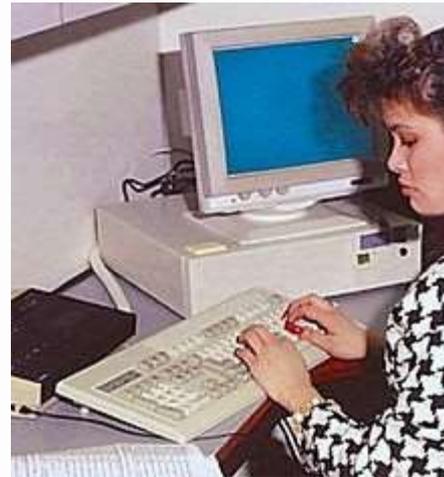
Research studies in practice

- Having a good and relevant research question
- Having a good protocol
- Collecting data
- Analyzing data
- Answer to the research question



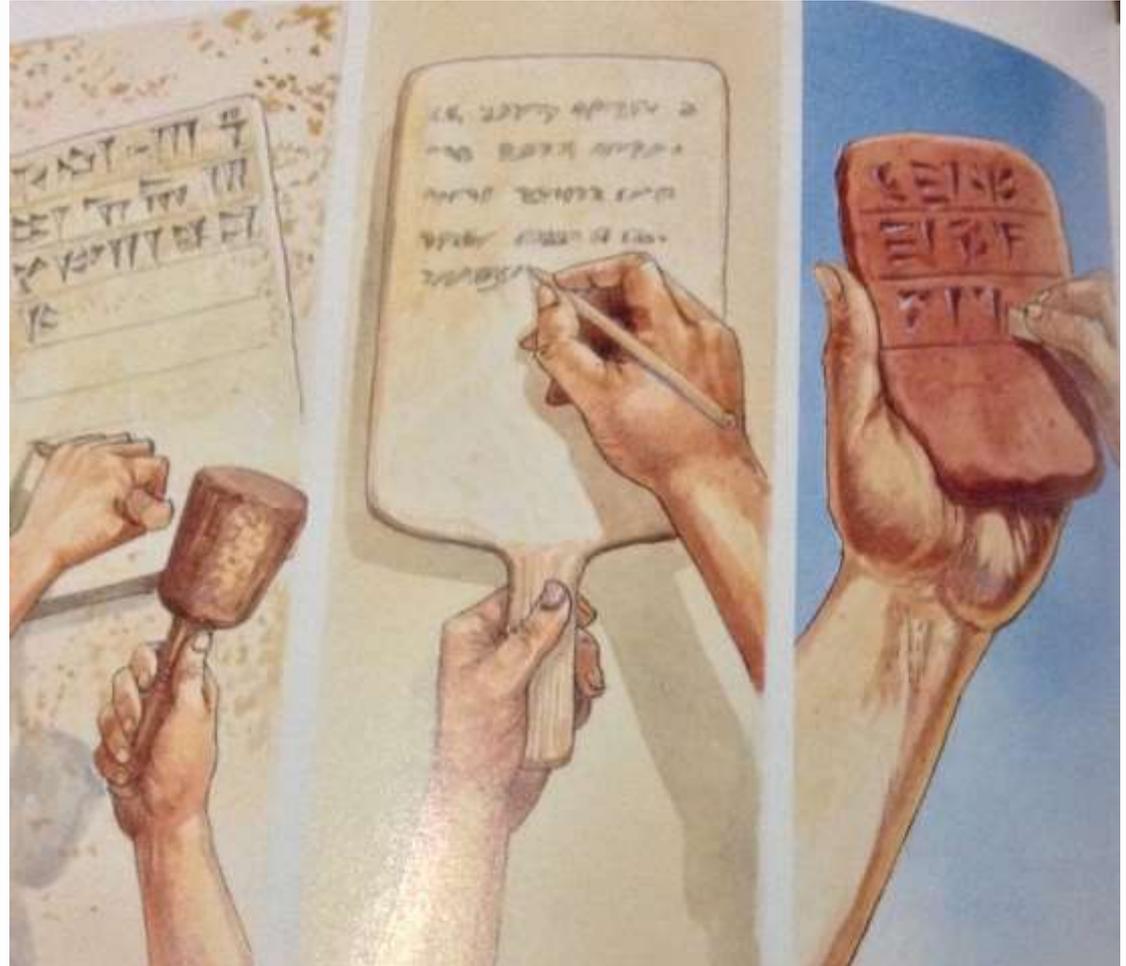
Data

- Collecting data





Collecting data





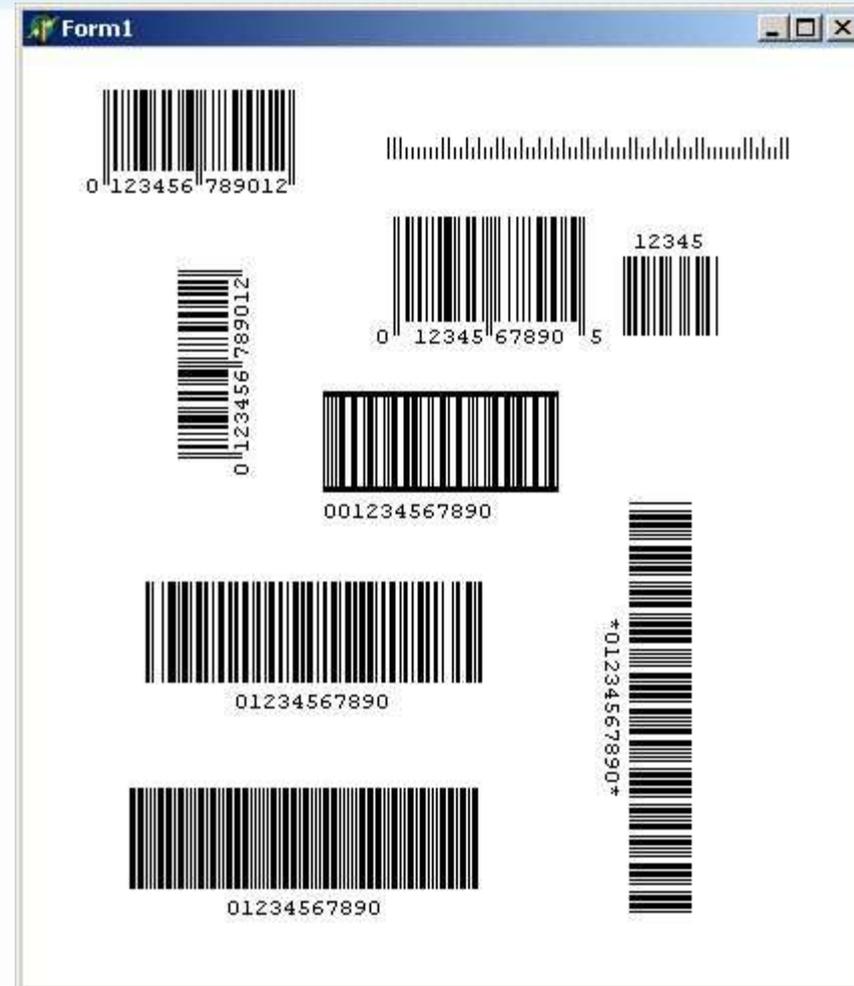
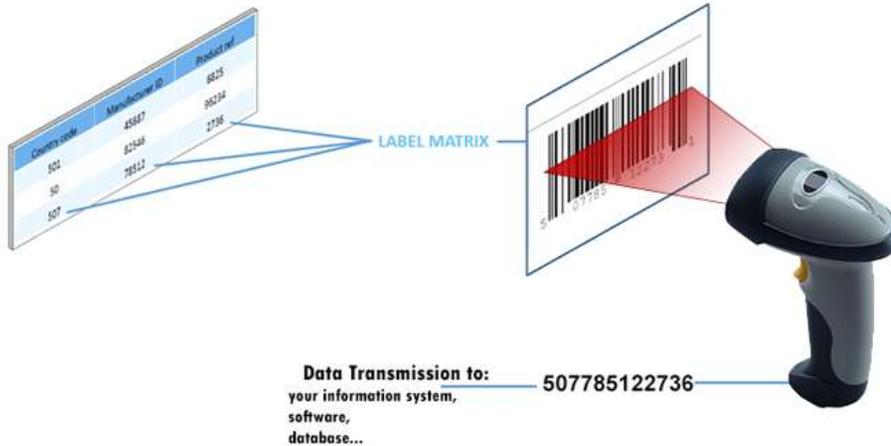
Automatic data collection

- Bare or QR codes
- OCR
- Speech to text
- Image recognition
- Biometric devices
- Cards
- Internet of things



Bare codes

- Each character is encoded by one or more bars





Scan the bar code





OCR – Optical Character Recognition





http://www.onlineocr.net/

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FREE ONLINE OCR SERVICE

Use Optical Character Recognition software online. Service supports 46 languages including Chinese, Japanese and Korean

CONVERT SCANNED PDF TO WORD

Extract text from PDF and images (JPG, BMP, TIFF, GIF) and convert into editable Word, Excel and Text output formats



1 STEP - Upload file

Max file size 5 mb.

2 STEP - Select language and output format

3 STEP - Convert

Use OCR software

without installation on your computer. Recognize text and characters from PDF scanned documents (including multipage files).

Convert PDF to Doc

Convert text and Images from your scanned PDF document into the editable DOC format. Converted documents look exactly like the

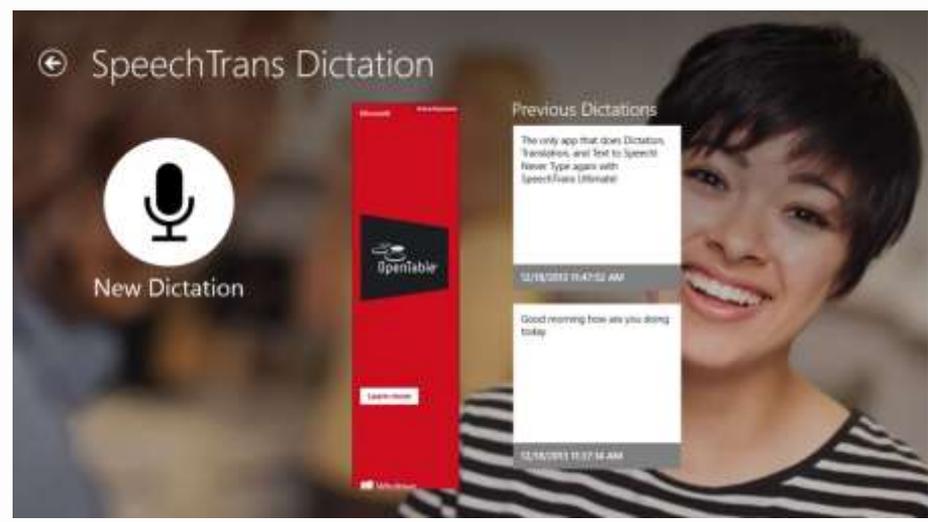
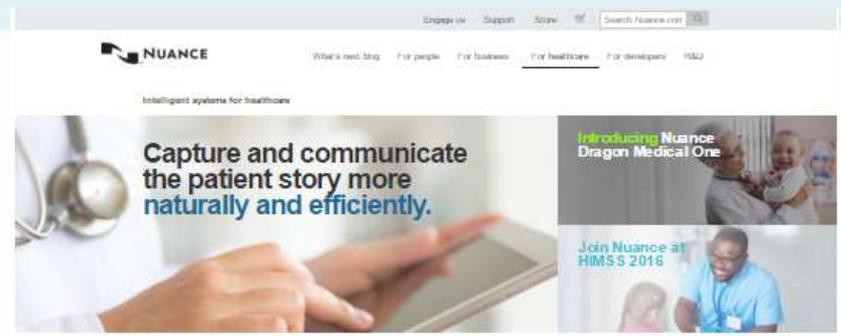
Free Service

OnlineOCR.net is a free OCR service in a "Guest mode" (without registration) that allows you to convert 15 images per hour. Registration will give



Speech to text

- Vocal command
- Dragon Suite



Google docs

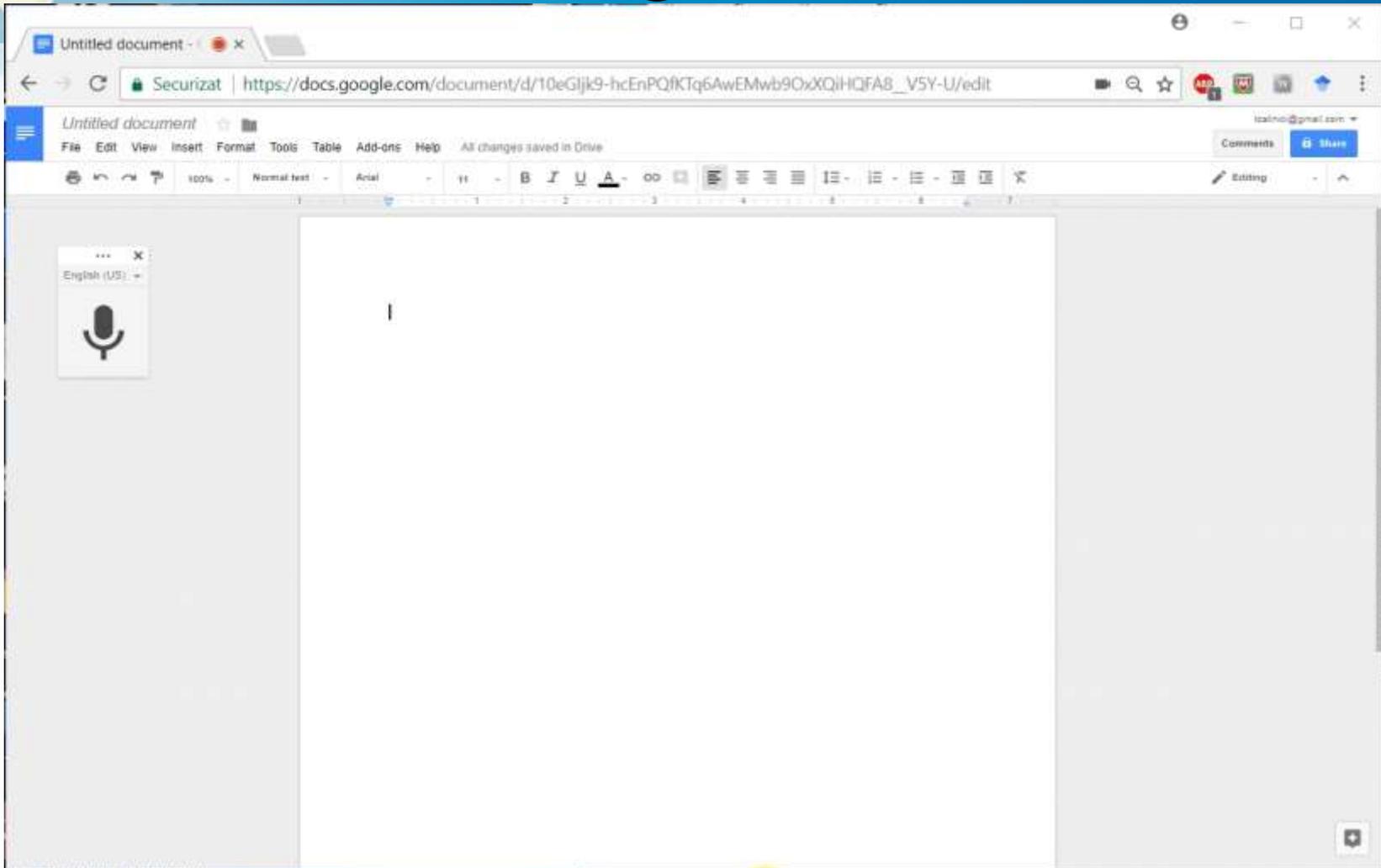




Image recognition

<https://www.imageidentify.com/>

The screenshot shows a web browser window displaying the 'The Wolfram Language Image Identification Project' website. The page features a large red area with a white box containing a red outline of a horse head and the text 'Drag an image of anything here (or click to browse)'. To the right, there is a section titled 'Sample images to try:' with a grid of small image thumbnails. At the bottom of the website, there are navigation links: 'ANNOUNCEMENT BLOG POST', 'HOW IT WORKS', 'FAQS', and 'ABOUT WOLFRAM LANGUAGE'. Overlaid on the right side of the browser is a Windows File Explorer window showing a folder named 'poze ident' containing three image files: '20170830_130217.jpg', '20170831_161315.jpg', and '20170908_222152.jpg'.



Biometrics devices





Cards

- Magnetic cards
- Chip Cards
- RFID Cards





Internet of things

- The Internet of things (IoT) is the network of physical devices, vehicles, home appliances and other items embedded with electronics, software, sensors, actuators, and network connectivity which enables these objects to connect and exchange data. Each thing is uniquely identifiable through its embedded computing system but is able to inter-operate within the existing Internet infrastructure.





Mobile technology





3D Organ printing





Thank you!