

# The Role of Technology in Accounting



Dr. Wing Wahyu Winarno, MAFIS, CA, Ak.

Dosen STIE YKPN Yogyakarta

Disampaikan pada Workshop bidang ilmu Sistem Informasi  
Di SNA XVI 2013 di Manado

## Dr. Wing Wahyu Winarno, MAFIS, CA, Ak.

- Dosen STIE YKPN Yogyakarta ([www.stieykpn.ac.id](http://www.stieykpn.ac.id))
- S1: FE UGM Jurusan Akuntansi (lulus 1987)
- S2: Cleveland State University, Ohio, AS (1994)
- S3: PIA FE UI, Jakarta (2011)
- Tenaga Ahli Bappeda DIY
- 0878-3912-7000 (WhatsApp)
- PIN: 793FA143 (iPhone)
- @wingww
- <http://wingww.lefora.com>
- [jimatdigital.blogspot.com](http://jimatdigital.blogspot.com)
- [wing@mti.ugm.ac.id](mailto:wing@mti.ugm.ac.id)



# Agenda

- Perkembangan SITI
- Pengaruh Teknologi pada Pengajaran SIA
- Materi Ajar yang Perlu Dikinikan
- Alat Bayar Digital
- Program Aplikasi Akuntansi
- Aplikasi Perancangan Sistem
- Penutup

# Perkembangan SITI

- Perkembangan teknologi komputer
- Konvergensi digital
- Kecepatan teknologi komunikasi
- *Cloud Computing*

# Perkembangan Teknologi Komputer

- Komputer semakin bervariasi → notebook, netbook, tablet, phablet, smartphone, smart tv
- Kecepatan prosesor tidak meningkat (2-3 GHz) → tapi core meningkat (dual-core, quad-core, dst)
- Harga semakin murah
- Software dan aplikasi
  - Tersedia dalam versi berbayar dan gratis
  - Tersedia secara offline maupun online

# Konvergensi Digital

- Teknologi digital semakin meluas
- Berbagai perangkat digital dapat saling bertukar data dengan mudah
- Cara bertransaksi semakin mudah → via web, smartphone, sms, telpon

# Kecepatan Teknologi Komunikasi

- Teknologi komunikasi semakin gegas dan terjangkau
- Data tidak hanya text dan gambar, tetapi sudah audio dan video streaming
- Komunikasi, dokumentasi, pengajaran → perlu memanfaatkannya

# *Cloud Computing*

- Teknologi berbasis Internet
- Tidak bergantung pada tempat dan perangkat
- Tersedia berbagai aplikasi dan tempat penyimpanan, baik berbayar maupun gratis



# Pengaruh SITI pada Pengajaran SIA

- Pergeseran dari proses manual ke proses berbasis SI/TI
  - Penguatan teknik perancangan kode (*primary id*)
  - Pengolahan data vs pengolahan informasi
  - Perancangan aplikasi (tampilan layar, dokumen, proses, integrasi sistem)
  - Penyesuaian perangkat bisnis berbasis SI/TI (Internet, mobile device, alat bayar digital)

# Materi Ajar yang Perlu Dikinkan

- Teknologi komputer
- Teknologi komunikasi
- Teknologi Internet
- Basisdata
- Cara bertransaksi melalui daring (*online*)
- Cara membayar melalui daring (*online*)
- Teknik merancang sistem

# Program Komputer Akuntansi

- Semakin banyak tersedia (offline, online), misal:
  - MYOB ([www.myob.com.au](http://www.myob.com.au))
  - Zahir ([www.zahiraccounting.com](http://www.zahiraccounting.com))
  - Mobile (melalui ponsel)



Ezi Accounting - EziSolution Software ( Master User )

Sales Stock Purchases Accounts Diary Telephone Maintenance Help Exit

**Invoicing**

**Client Details**

Type: Invoice Code: RIS

Number: 100540 Name: ROBIN INDUSTRIAL SERVICES P/L

Date: 01/02/2004 Address: UNIT 11, 17 CANVALE ROAD

Ref. No. CANNING VALE WA 68955

Salesman: Manager

Deliver To: Tel: 9744 4778 Fax: 9744 4779

Balance \$: 227.60

Crdt Limit \$: 2000.00

Available \$: 1772.40

Terms: COD Days:  Tax Inclusive

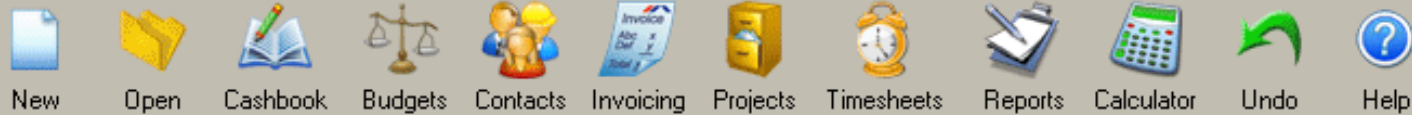
| Part Number | Details                                  | Quantity | B/Order   | Amount \$ | Tax         | Disc. % | Total \$ |
|-------------|--|----------|-----------|-----------|-------------|---------|----------|
| 2160004     | 2PLY Paper ROLL 76x76                    | 40       | 0         | 3.19      | T           | 0.000   | 127.60   |
| *           | Use the STAR * to enter non stock items  | 2        | 0         | 50.00     | T           | 0.000   | 100.00   |
|             |  | 0        | 0         | 0.00      |             | 0.000   | 0.00     |
|             | Leave the part number field blank to ent | 0        | 0         | 0.00      |             | 0.000   | 0.00     |
|             | as many notes under the details as neede | 0        | 0         | 0.00      |             | 0.000   | 0.00     |
|             |  | 0        | 0         | 0.00      |             | 0.000   | 0.00     |
|             |  |          |           |           |             |         |          |
|             |  |          |           |           |             |         |          |
|             |  |          |           |           |             |         |          |
|             |  |          |           |           |             |         |          |
|             |  |          |           |           |             |         |          |
| Bin         | On Hand                                  | 0        | Total Qty | 42        | Subtotal \$ |         | 227.60   |
|             |  |          |           |           | Tax \$      |         | 20.69    |
|             |  |          |           |           | Paid \$     |         | 0.00     |
|             |  |          |           |           | Total \$    |         | 227.60   |

Save (F2) Print (F3) Email Delete (F4) Payment (F5) Delivery (F6) Close (Esc)

F7 - Outstanding Invoices Shift+F7 - Invoice List F9 - Search Part No. F10 - Search by Item Shift+F12 - Print Labels

Cashbook Complete - c:\program files\cashbook complete\demo.dat

File Edit Cashbook Contacts Invoicing Time and Cost Help



Contacts



**Client** Colonial Cottages Ltd. **Notes** Specialise in custom building wood and stone cottages, restorations.

**Dial Code** 09 **Phone** 7271032 **Fax** 7271033

**List** Yes **Email**

**Postal Address** P.O.Box 920-762 Aranui Heights Smithfield 7219 **Street Address** 23 Viewmount Drive Aranui Hights Smithfield

**Contacts**

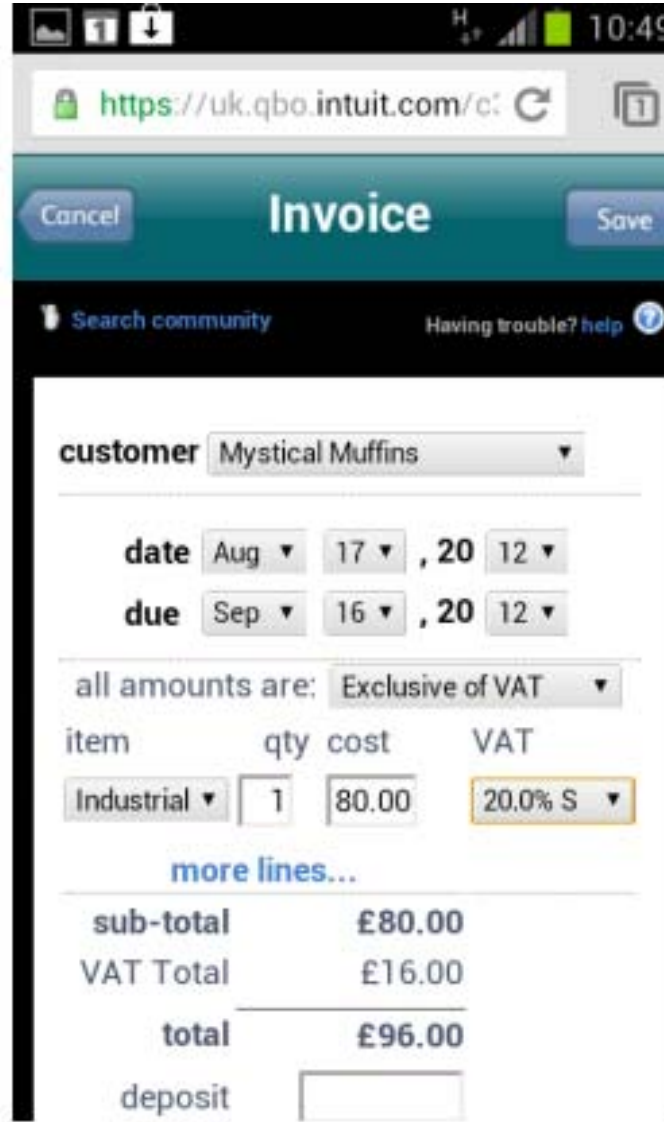
| First Name | Surname     | Recall Date | Notes                                 |
|------------|-------------|-------------|---------------------------------------|
| Florence   | Englewood   |             | Interior Designer                     |
| Gerhard    | Von Schmidt |             | Mobile (025) 736-127 Site Supervisor. |
| Basil      | Wendle      | 28/08/2006  | Problem with site draining            |
| Bob        | Wilbury     |             | Mobile (025) 298-393 Project Leader   |
| Amy        | Zymmerman   |             | Architect                             |
| *          |             |             |                                       |

Exit

You are currently viewing the Cashbook Complete Demo.

Ver 5.00

The Company Name or persons Surname, First Name  FLTR  NUM



# Alat Bayar Digital

- Alat bayar yang cepat, handal, dan praktis
  - Internet & mobile banking: BCA, Mandiri
- Online banking
  - [www.paypal.co.id](http://www.paypal.co.id)

**PayPal**

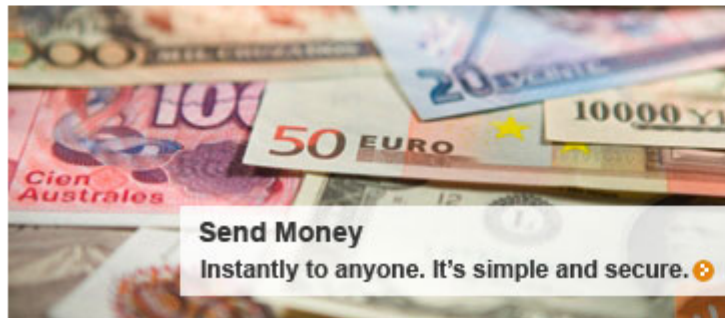
Home

Personal

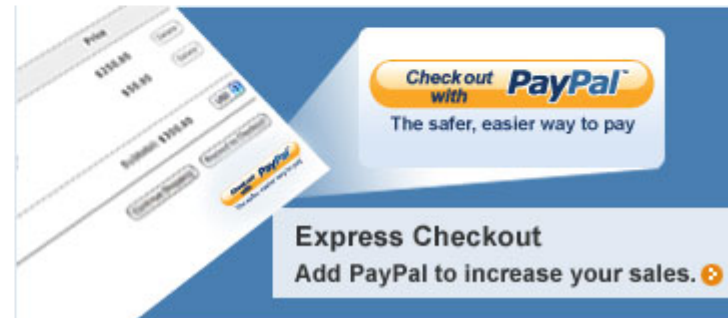
Business

Products

## Ways to pay



## Ways to get paid



# Tampilan depan PayPal



**My Account** | Send Payment | Request Money | Merchant Services | Products & Services

Overview | Add Funds | Withdraw | History | Resolution Center | Profile

**Welcome, Wing Wahyu Winarno**

Account Type: Personal [Upgrade](#) | Status: [Verified](#) | Sending and Withdrawal Limits: [View Limits](#)

PayPal balance: **\$749 USD**

My recent activity | [Payments received](#) | [Payments sent](#) | [View all of my transactions](#)

**My recent activity - Last 7 days (Apr 20, 2012-Apr 27, 2012)**

[Archive](#) | [What's this](#) | [Payment status glossary](#)

| <input type="checkbox"/> | Date | Type | Name/Email | Payment status | Details | Order status/Actions | Gross |
|--------------------------|------|------|------------|----------------|---------|----------------------|-------|
| -No New Items-           |      |      |            |                |         |                      |       |

[Archive](#) | [What's this](#)



# Menagih melalui PayPal



My Account | Send Payment | **Request Money** | Merchant Services | Products & Services

Manage Invoices | Request Money | Create Invoice | Invoice Settings

### Manage invoices

Request Money Create an Invoice

Basic filter | Advanced filter [Invoice settings](#) | [What's new?](#) | [Invoice help](#)

All active (0) Unsent (0) Unpaid (0) Paid (0) Past due (0) Refunded (0)

**Results: No results found** Download: [CSV](#)

20 items per page Previous | Next

Not seeing all of your invoices? [Go to the History page](#) for invoices created with our original Invoicing tool.

[Archive](#) [What's this?](#)

| <input type="checkbox"/>           | Invoice date | Due date | Recipient | Status | Invoice # | Action | Amount | Memo |
|------------------------------------|--------------|----------|-----------|--------|-----------|--------|--------|------|
| You have not created any invoices. |              |          |           |        |           |        |        |      |

[Archive](#) [What's this?](#)

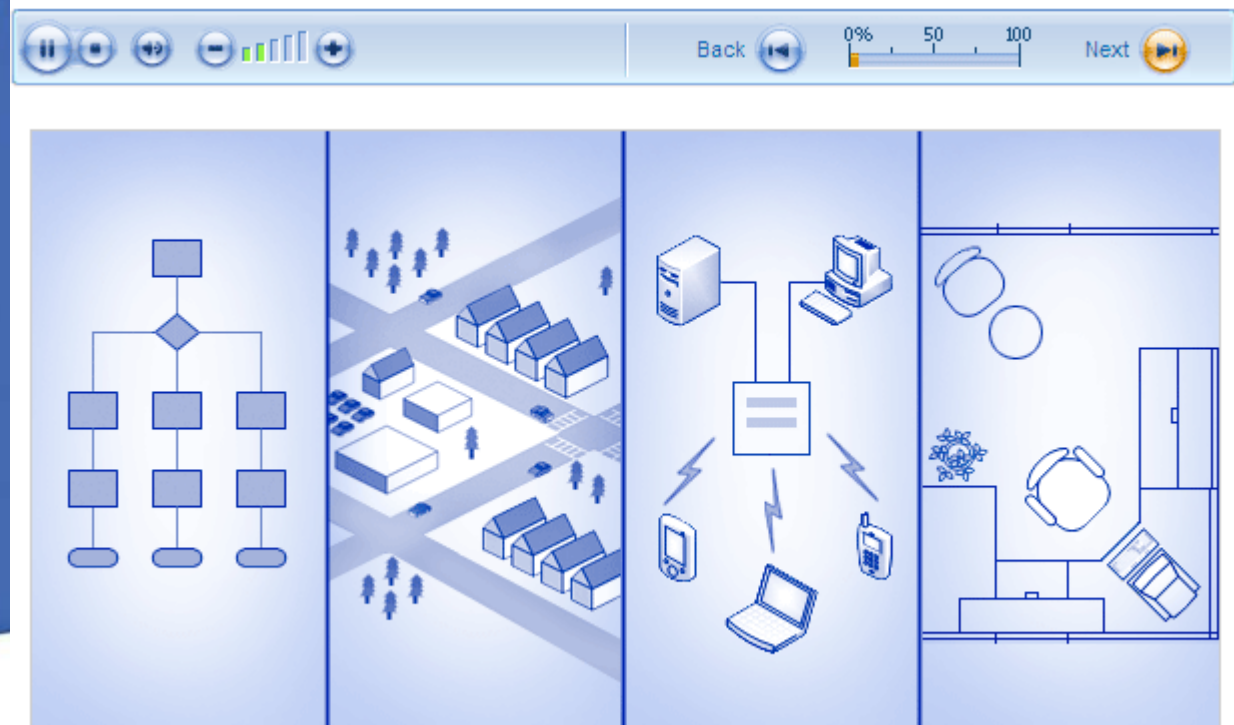
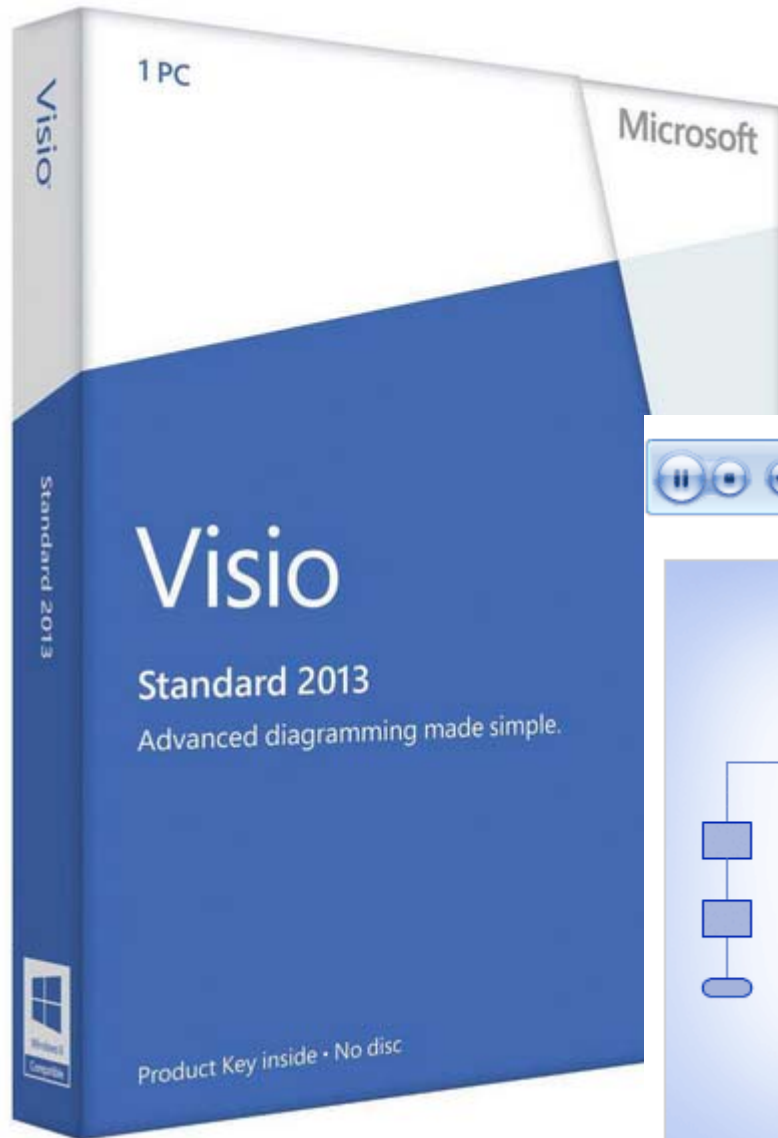
20 items per page Previous | Next

# Aplikasi Perancangan Sistem

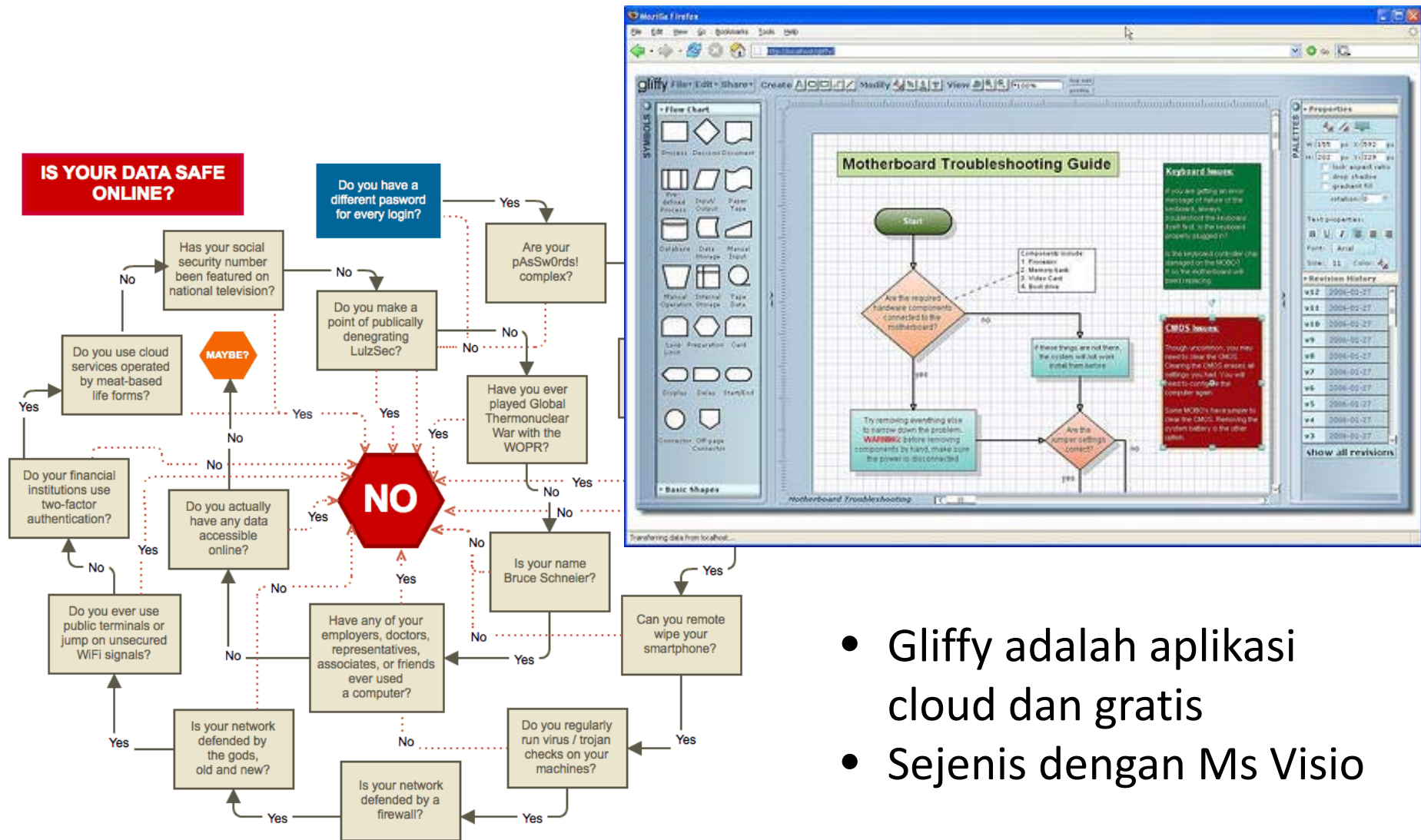
- Ms Visio
- Gliffy
- Visible Analyst
- GUI Design Studio
- Evolus Pencil
- Andromo

# Microsoft Visio

- Visio adalah program aplikasi untuk perancangan diagram & dokumen
- Dibuat oleh Microsoft
- Keluarga Ms Office Professional

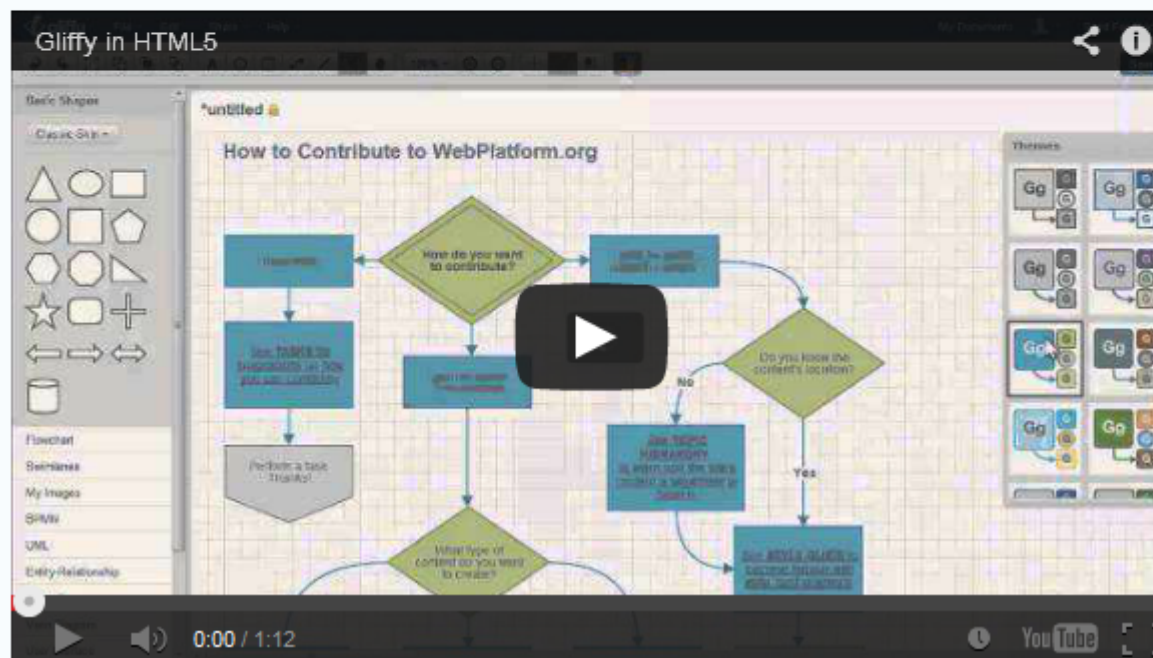


# Gliffy (www.gliffy.com)



- Gliffy adalah aplikasi cloud dan gratis
- Sejenis dengan Ms Visio

# Gliffy is the **Most Widely Used** Online Diagramming Application



## Professional Level Power

Gliffy Pro brings robust tools and unique collaboration capabilities to business users, making it easy to create, share, and interact with distributed teams of colleagues, vendors, and clients.

[Try It Now!](#)

[Learn more about pricing](#) →

[Read our FAQ](#) →

# Gliffy ([www.gliffy.com](http://www.gliffy.com))



## Lightning Fast

Gliffy Online runs on an HTML5 editor that's more than twice as fast as Flash. Create and edit even very large diagrams without wasting time.



## Easy to use

Just drag-and-drop shapes from an extensive library and point-and-click your way to format. No expertise needed.



## Protect and Track Changes

Revision control automatically stores each version you save so you can track changes and roll back when required.



## Collaborate Instantly with Anyone

Send an invitation email to anyone and Gliffy will automatically provide him or her with access to your diagram and a temporary password to a free account.



## Publish and Share Easily

Gliffy provides you with a read-only URL displaying your diagram and lets you embed and share your work via social media.



## Themes & Templates

Set custom colors and save them for simple reselection. Color themes automatically repaint entire diagrams in designer-approved palettes. Templates jumpstart your drawing process with a wide range of ready-made options.



## Google Drive Integration

Create, open, and edit Gliffy documents directly from Google Drive so you can manage, access, and share your diagrams from any computer or device.



## Import Visio Documents

Our import functionality now speaks Visio. Open, edit, and save all your old diagrams using Gliffy Online.

# Visible Analyst

- Program aplikasi jenis CASE (*computer aided software engineering*)
- Digunakan untuk merancang sistem terpadu
- Tersedia versi Student, University, dan Business
- Keluaran:
  - Rancangan program komputer, basis data dan kelengkapannya, tampilan menu program

HOME | HELP | SITEMAP

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**Visible Analyst**

Contact the Visible Systems [Sales Department](#) or call 781-367-9509 for a demonstration copy of the Visible Analyst, incorporating the new UML v2.0 support including Component and Deployment diagrams.

**Strategic Planning, Data Modeling, Business Process Modeling (BPMN), UML Modeling, and Structured Analysis and Design Modeling In a Single Tool**

Whether you are designing e-business applications, developing a data warehouse, or integrating your legacy systems with new enterprise applications, Visible Analyst has all the power you need.

Visible Analyst enables true enterprise application engineering by storing and documenting data, processes, business requirements, and objects that can be shared by application developers throughout an organization. The result: you can more easily design and control enterprise software for quality, consistency, and reusability in business applications through the managed sharing of meta-data. All editions support concurrent multi-user access.



We have created a number of "How To..." [training videos](#) to assist users when learning and using the Visible Analyst. Each video explores a specific function or resolves a user issue, and helps you get started using and understanding the Visible Analyst. Additional videos will be added as necessary. If you have a suggestion for a "How To..." video, send us an e-mail at [eLearning@visible.com](mailto:eLearning@visible.com)

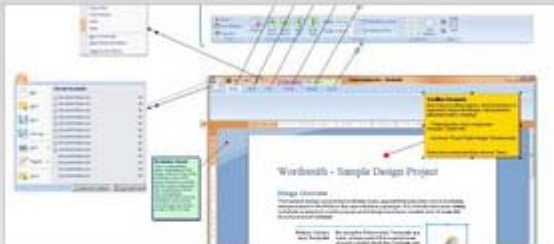
**NEW**



# GUI Design Studio

- Program untuk *prototyping* aplikasi (komersial)
- Relatif mudah digunakan (cukup *point and click*)
- Dapat di-run, mirip dengan aplikasi sesungguhnya

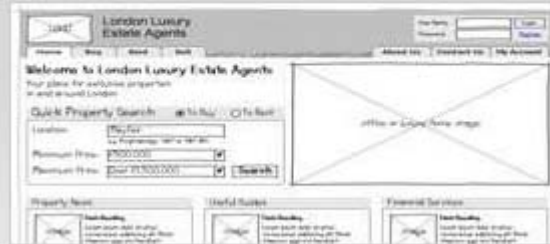
## What is it?



GUI Design Studio is a code-free, drag and drop user interface design and prototyping tool for creators of Web, Desktop, Mobile and Embedded software applications.

- Design screens or web pages
- Add user interaction behaviour
- Test as a running prototype

## Who's it for?



Software Designers, User Experience Professionals, Business Analysts, Developers, Project Managers and Consultants.

- Document product ideas
- Create project proposals
- Create design mock-ups

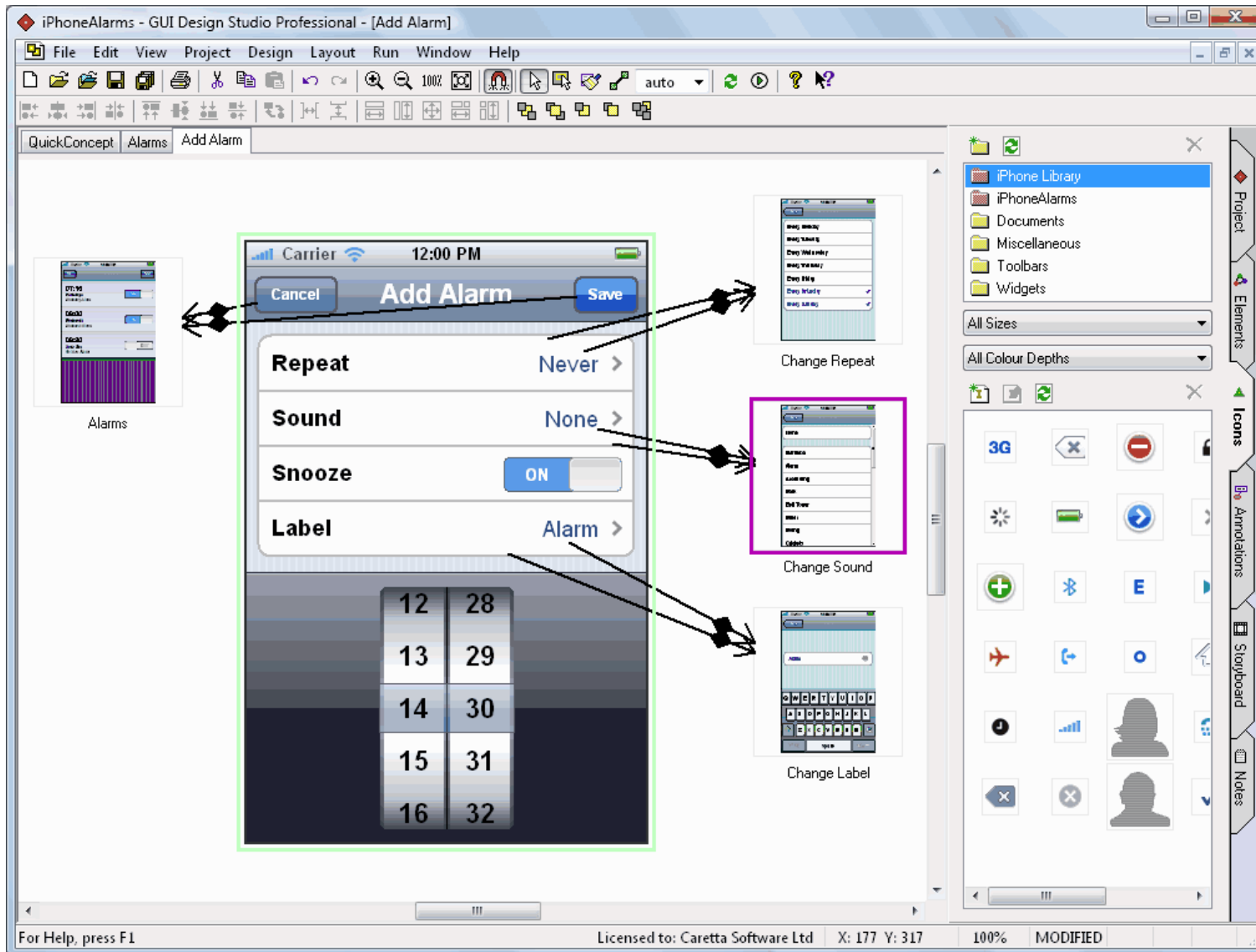
## Why use it?



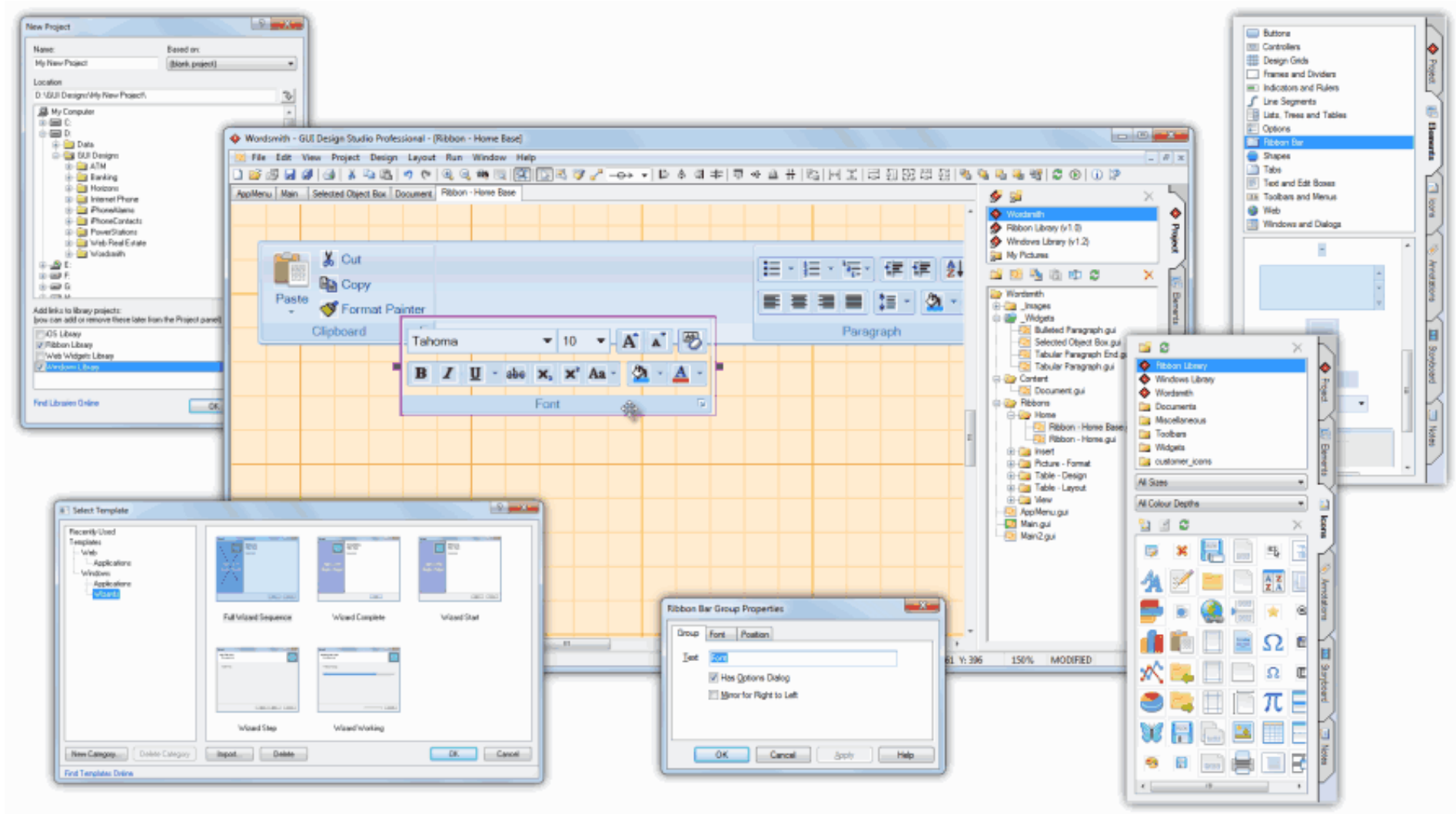
Quickly lay down ideas and test them out in a low-cost, risk-free environment and avoid expensive implementation rework by getting the right design agreed upon first.

- Verify designs and requirements
- Explore alternatives
- Evaluate different usage scenarios

# GUI Design Studio



# GUI Design Studio



# Evolus Pencil



[Home](#) [Features](#) [Downloads](#) [Stencils & Templates](#) [Wiki](#)

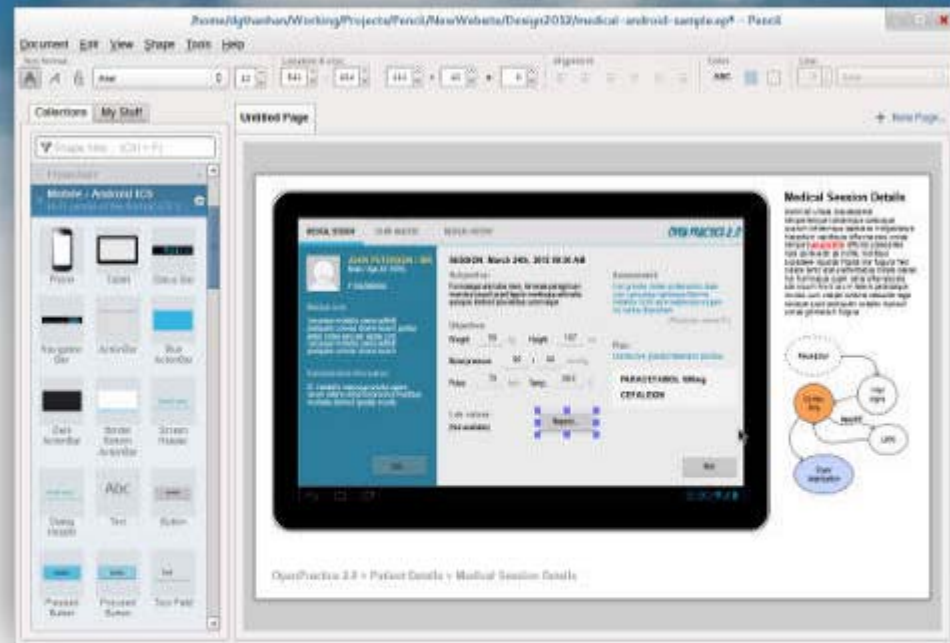
An open-source GUI prototyping tool that's available for ALL platforms.

Pencil is built for the purpose of providing a free and open-source GUI prototyping tool that people can easily install and use to create mockups in popular desktop platforms.

The latest stable version of Pencil is **2.0.3** with many enhancements and bug-fixes.

Download for Windows  
Version 2.0.3, .exe, ~22 MB

For other platforms?  
[See all downloads »](#)



## Project News

**November 28th, 2012** - Pencil version 2.0.3 has been released with minor enhancements and bug fixes.

## Custom Designed Pencils

[pencils.com/custom-pencils](http://pencils.com/custom-pencils)

Design your own custom pencils for school, work, or personal use.



# Evolus Pencil



# Andromo

- Aplikasi untuk membuat aplikasi berbasis Android (ponsel, tablet)
- Berbasis online
- Tidak memerlukan penulisan program

# The #1 Android App Maker

With Andromo, anyone can make professional Android and Kindle Fire apps. **There's no programming required, plus Andromo generates 100% pure 'native code' apps.** Use your app to promote your business, share events and news, or launch your million dollar idea. It's quick, easy and your first app is free!

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Create great apps. No coding required.

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# Penutup

- Dosen perlu mengikuti perkembangan terkini dalam bidang SIA
- Dosen perlu mendekatkan mahasiswa dengan dunia bisnis
- Dosen SIA/SIM perlu membentuk forum bersama (sebuah usulan)

See you next time Manado