GnuCash

Accounting in the Eyes of a Programmer
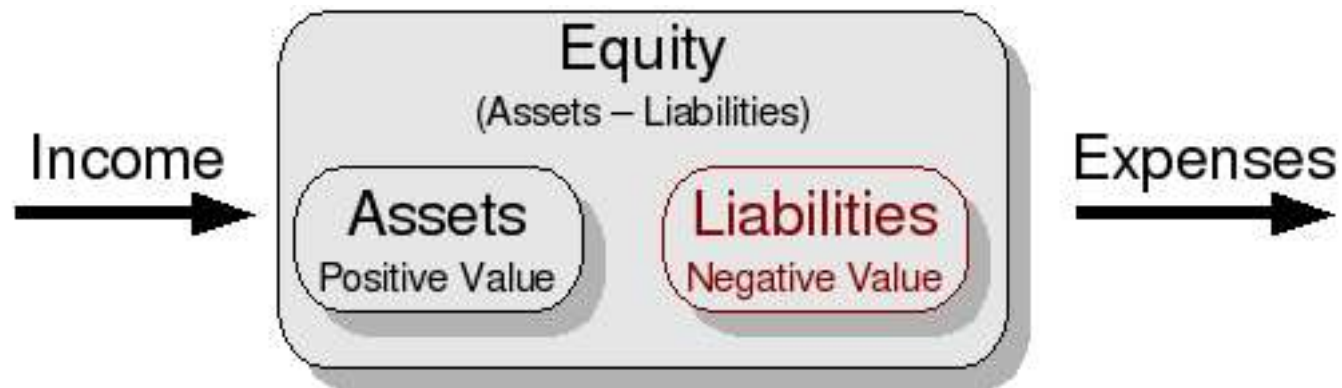
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Motivation

- You have a small business

- Family accounts

- Your bank manager calls...

Account Types

- Double Entry:

  Each transaction appears on two accounts

Income → Equity (Assets – Liabilities) [Assets: Positive Value | Liabilities: Negative Value] → Expenses

Account Tree

- How detailed?

  - Labor

  vs.

  - Control

Simple Transactions

Assets:Current:Checking Account - Register

File Edit View Actions Reports Tools Help

Close | Enter | Cancel | Delete | Duplicate | Schedule | Split | Blank | Jump | Transfer | Find | Report | Print

Present: ILS 877.50   Future: ILS 877.50   Cleared: -ILS 102.50   Reconciled: -ILS 102.50   Projected Minimum: ILS 877.50

Date	Num	Description			Tot Deposit	t Withdrawal	Balance
21. 1.2005	76543	Accountant	Expenses:Commissions	n		250.00	-250.00
28. 1.2005		Payment	Income:Sales	n	1,230.00		980.00
20. 2.2005		Monthly Payment	Expenses:Equipment Rental	y		102.50	877.50
8. 1.2005	Num	Description			Tot Deposit	t Withdrawal	Balance

Friday 28 January 2005

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Split Transactions

Date Shortcuts

In any date field

- previous day   **t**oday   **+** next day

[month ago   **]** month ahead

month start   mont**h** end

year start   yea**r** end

Other Shortcuts

- In any amount field there is:

  - A mini-calculator

- In the number field:

  - A +/- increments/decrements by one

- The description field:

  - Is copied from previous transations

The "num" field

- Used for reference

- Examples:

  - Check number (for my checks)

  - Invoice number (for my invoices)

  - Payment counter – 3/12

A mini-demo

- Create an account tree

- Set assets and liabilities (against equity)

- Use transactions

Action->Schedule...

Scheduled Transactions

Scheduling Variables

- ST may contain arbitrary variables

- Must be filed during "run"

- Obviously cannot be automatic

- Example...

Since Last Run...

Reconciliation

- Against the bank/credit card statement

  - I do it every month

- This is the QA of your management:

  - How many items are "discovered"

  - "What? I bought this? When?"

  - You get to see the bank commissions etc.

Reconciliation Window

Business Features

- Relatively new (GnuCash 1.8.x)

- Entities:

  - Customer: Jobs, Invoices

  - Vendor: Jobs, Bills

  - Employee: Expenses (no Integrated Payroll yet)

- Tax Tables

- Billing Terms

Tax Tables

- Percent or Fixed

- Tax account

- I only use VAT
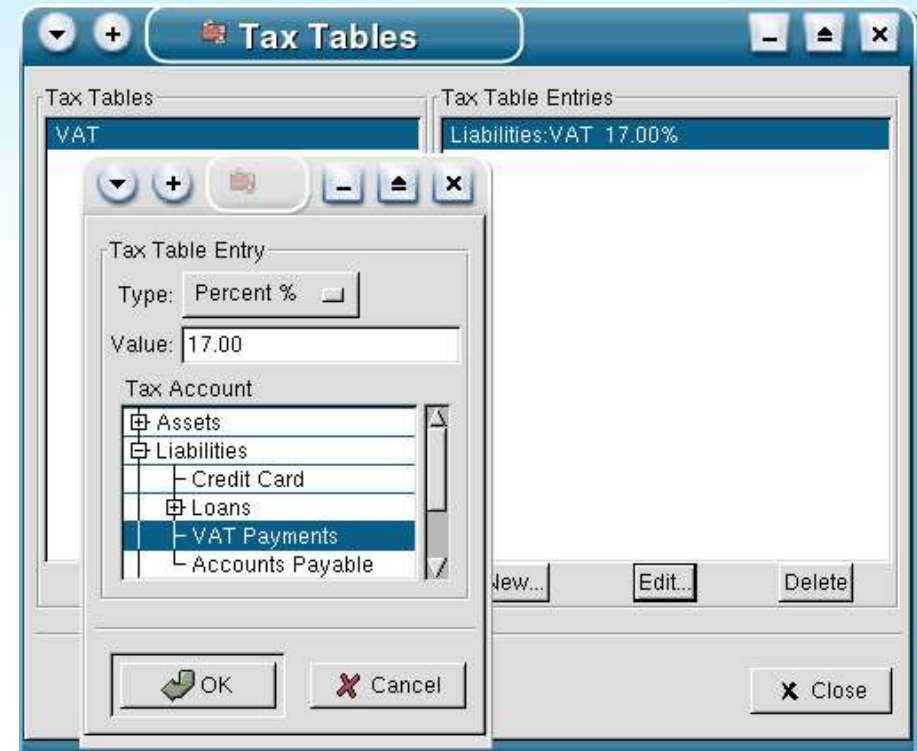
Billing Terms

- Days or Proximo

- Discounts

- Where is?

  `current + 60`

  And its ilk?

Customer

- Billing Address

- Terms

- Tax

Invoice

- Manual Invoice ID

- One job, Many invoices

- Terms

Edit Invoice

- Action: Hours, Material, Project

- Discounts, Tax included

- POST when ready!

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Invoice List

- Search similar to:

  – Vendors

  – Jobs

  – Customers

  – Bills

- Invoice status

Process Payment

- Amount:

  Default – invoice sum

- Transfer Account

And for the hard work…

Payment Information

Customer: Acme Products   Select...

Date: 21. 2.2005

Amount: 2500

Num: 1/2

Memo: First payment, more due

Post To

Assets:Accounts Receivable

Transfer Account

- Assets
  - Current
    - Bank CD
    - **Checking Account**
    - Money Market
    - Savings Account

OK   Cancel

Customer Report (Tada!!)

More Reports

- Cash Flow

- Profit and Loss

- Expenses/Income Bar/Pie charts

- Balance Sheet

- Print Checks (from Register)

- Print invoices

Print Invoice

Not Covered

- Investments
  - Stock, prices, dividends
  - Interest, depreciation
  - Currencies

- Tax Forms (US)

- Localization:
  - Hebrew data
  - Hebrew interface
  - Local data sources
  - Local taxes

Hacking GnuCash

- Default data storage is in XML (gzipped)

- Root is in /usr/share/gnucash:

  - User interface is done via Glade

  - Logic is in scheme (libguile)

- Example:

```
cd guile-modules/gnucash/report
diff invoice.scm fancy-invoice.scm
```

- Anybody?

Thank You

Questions?