

Coding 101

Prescott Computer Society Developers' SIG Initial Meeting

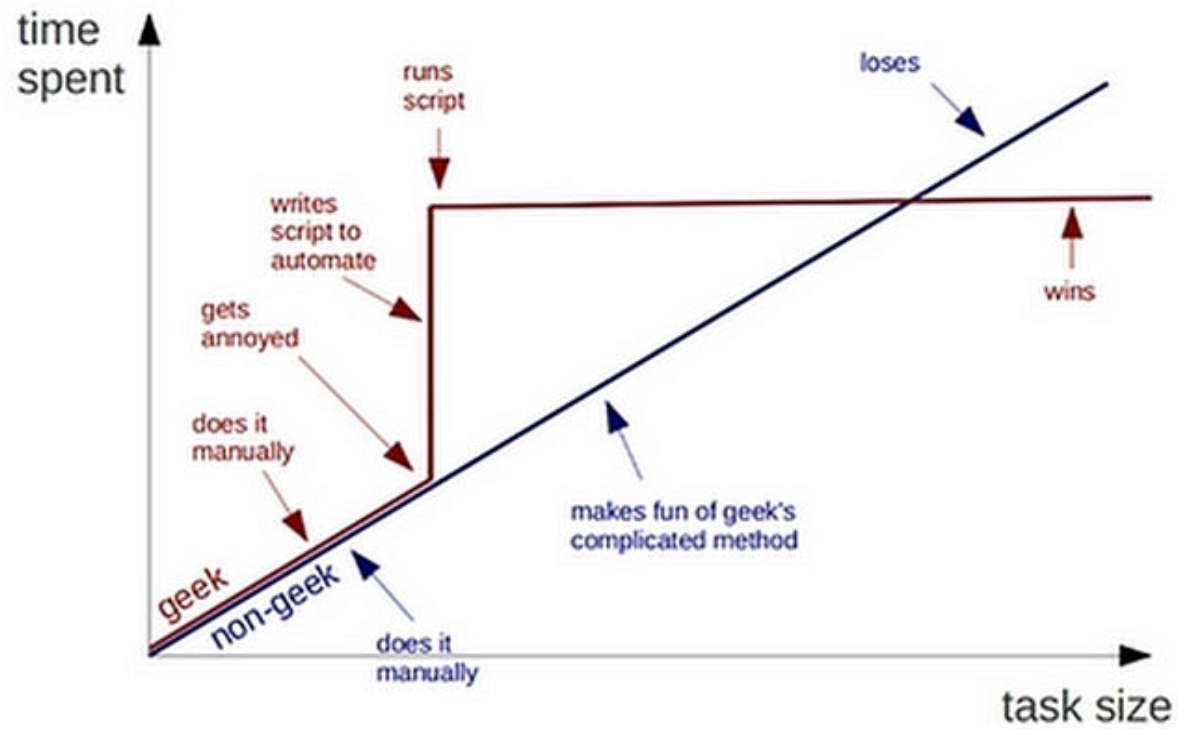
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Ray DeCosta
June 1, 2013

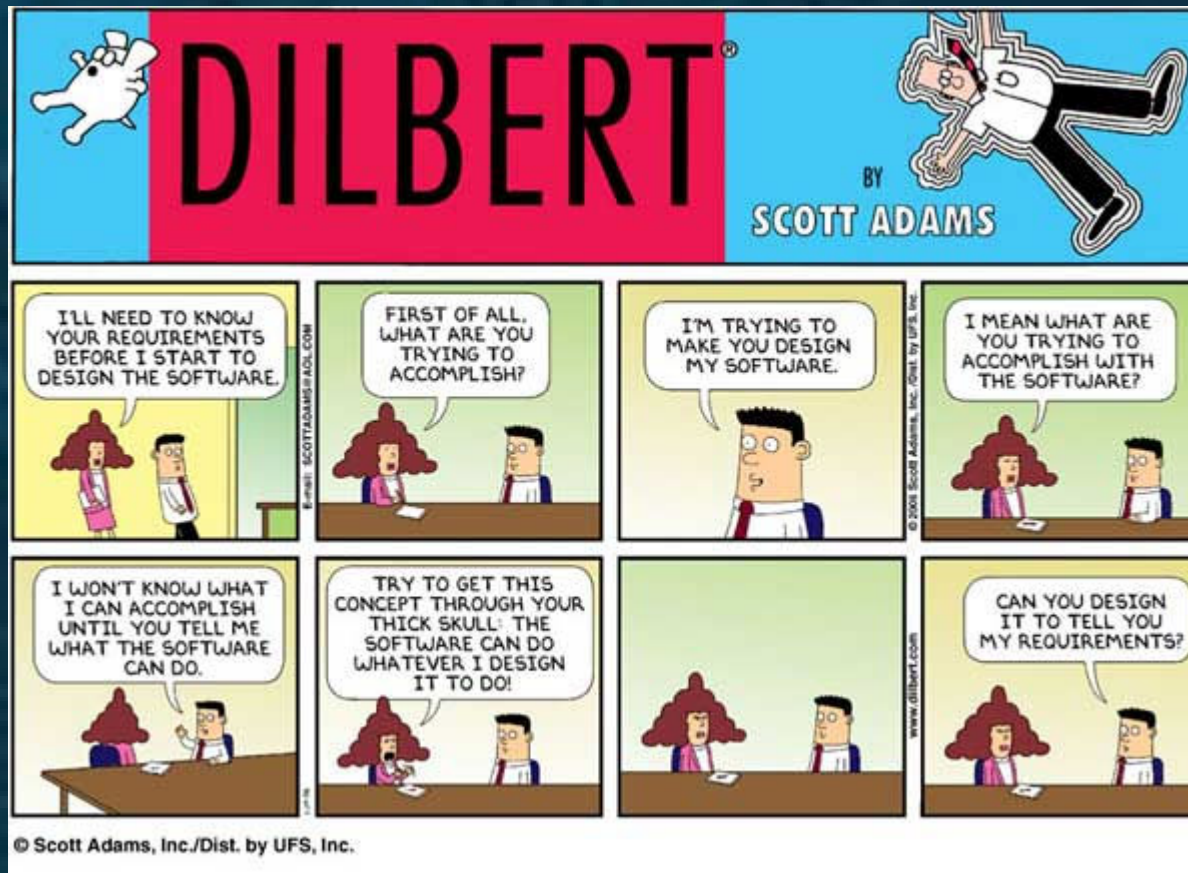


Geeks Win!

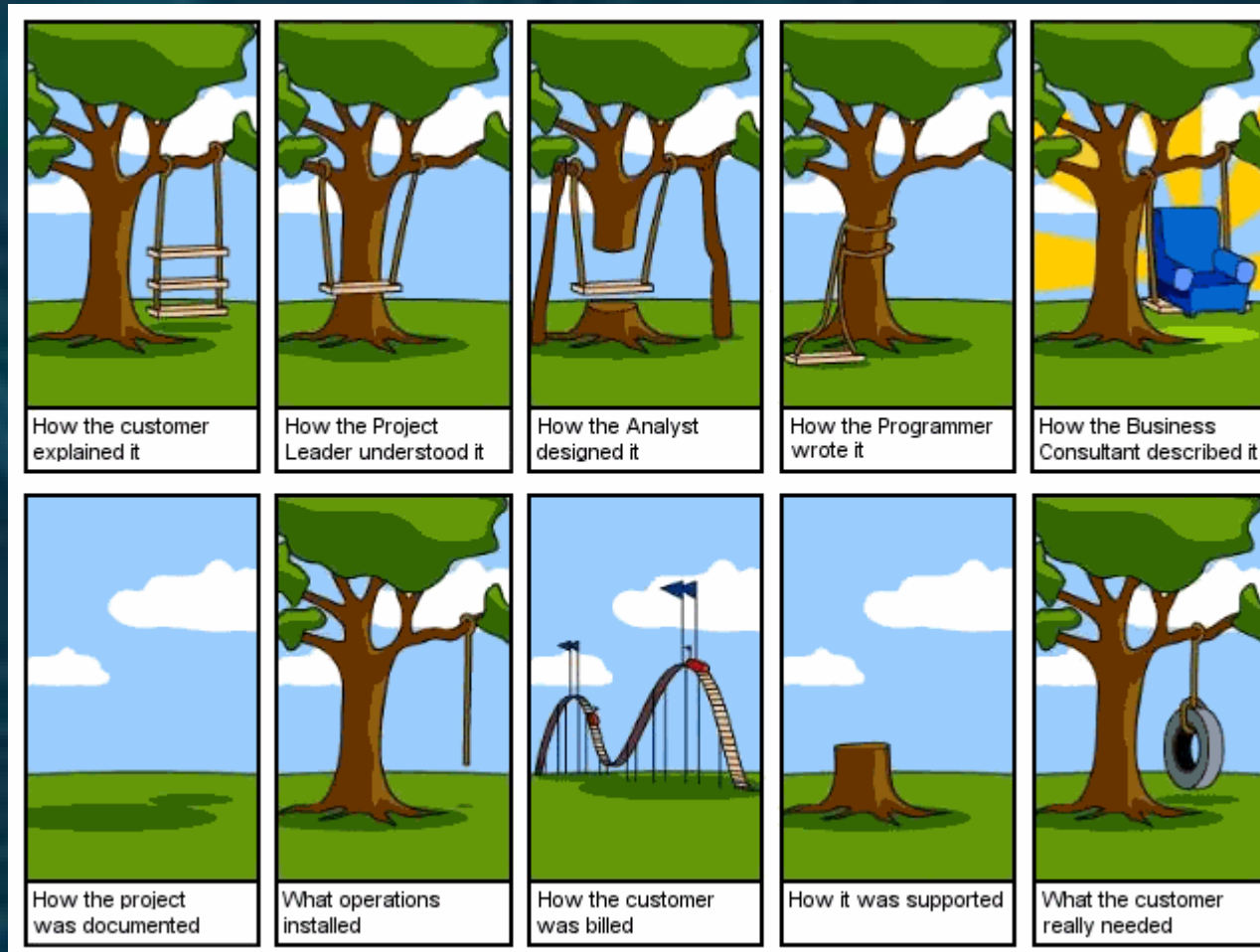
Geeks and repetitive tasks



How to Design Software



Software Design Explained



Today's Discussion

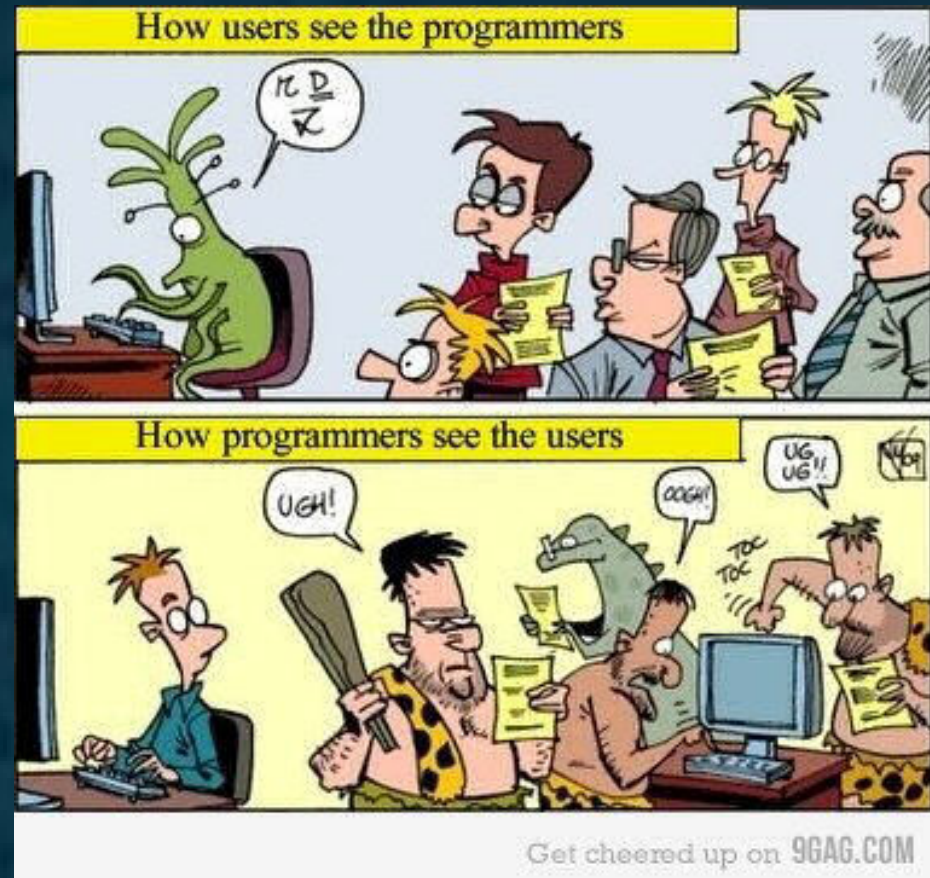
Computer code languages

FREE coding resources

Website design

Demos

I'll demo everything
we talk about



Computer Code Overview

Many different code languages in common use

HTML and CSS - websites

Visual Basic and C - websites and computer applications

Java - Android apps

XML - small databases

eXtensible Markup Language

Coding a Website

A website is basically just a bunch of code

HTML = HyperText Markup Language

Hypertext = text that links to other pages

HTML code is not pretty - at first

On any website: Right-click -- "View Page Source"

CSS = Cascading Style Sheets

Contains instructions for styling website

Can easily change look of entire site

Databases

Access, Excel and XML



ASP.Net

Active Server Pages Extended

ASP.Net pages have **ASPX** extension

Not to be confused with ASP a/k/a "Classic ASP"

ASP went away in 2002

ASP.Net is now often referred to as ASP

[Note to self: Sigh dramatically]

Server dynamically generates web pages

Allows for Master Pages - a great advancement

Creates database results on-the-fly

Makes the programmer's life **MUCH** easier

Very closely related to Visual Basic and C

If you know one, you can easily pick up the other

Free Resources

All the applications mentioned today are FREE!

Professional-level programs

Usually have to register to use

No spam worries

You can write code with any text editor

Even Notepad will work

But it will be a struggle

Free downloadable fonts

<http://www.1001freefonts.com/>



Expression Web

Website design and maintenance

I use Exp. Web to write the weekly newsletter

Requires some familiarity with CSS and HTML

WYSIWYG = What You See Is What You Get

Must preview in different browsers to check results

Available at:

<http://www.microsoft.com/en-us/download/details.aspx?id=36179>

Help forum:

<http://social.expression.microsoft.com/Forums/en-US/web/threads>

Visual Basic, C and ASP.Net

Microsoft's Visual Studio Express 2010 or 2012

XP - uses only 2010 version

Best to get the "2010 All-In-One ISO"

<http://www.microsoft.com/visualstudio/eng/downloads>

2010 version needs SP1

Click "Install Instructions"

Then look for the ".ISO format." link

<http://www.microsoft.com/en-us/download/details.aspx?id=23691>

Get both as an ISO and burn disc images to CD or DVD

Help forums:

<http://forums.asp.net/>

<http://www.dreamincode.net/>

<http://vbforums.com>

Example VB.Net Program

I'm a confessed cheapskate!

I didn't want to pay for over-priced check printing

Circa 2000

Staples had blank checks with software

Software was poorly designed so I wrote my own

Cost is not as big a deal these days

1,000 blank checks = \$30

Visual Web Developer Express

Included in All-In-One ISO

Better than Exp. Web for website databases

Makes interfacing with databases "easier"

Not as good as Exp. Web for routine website work

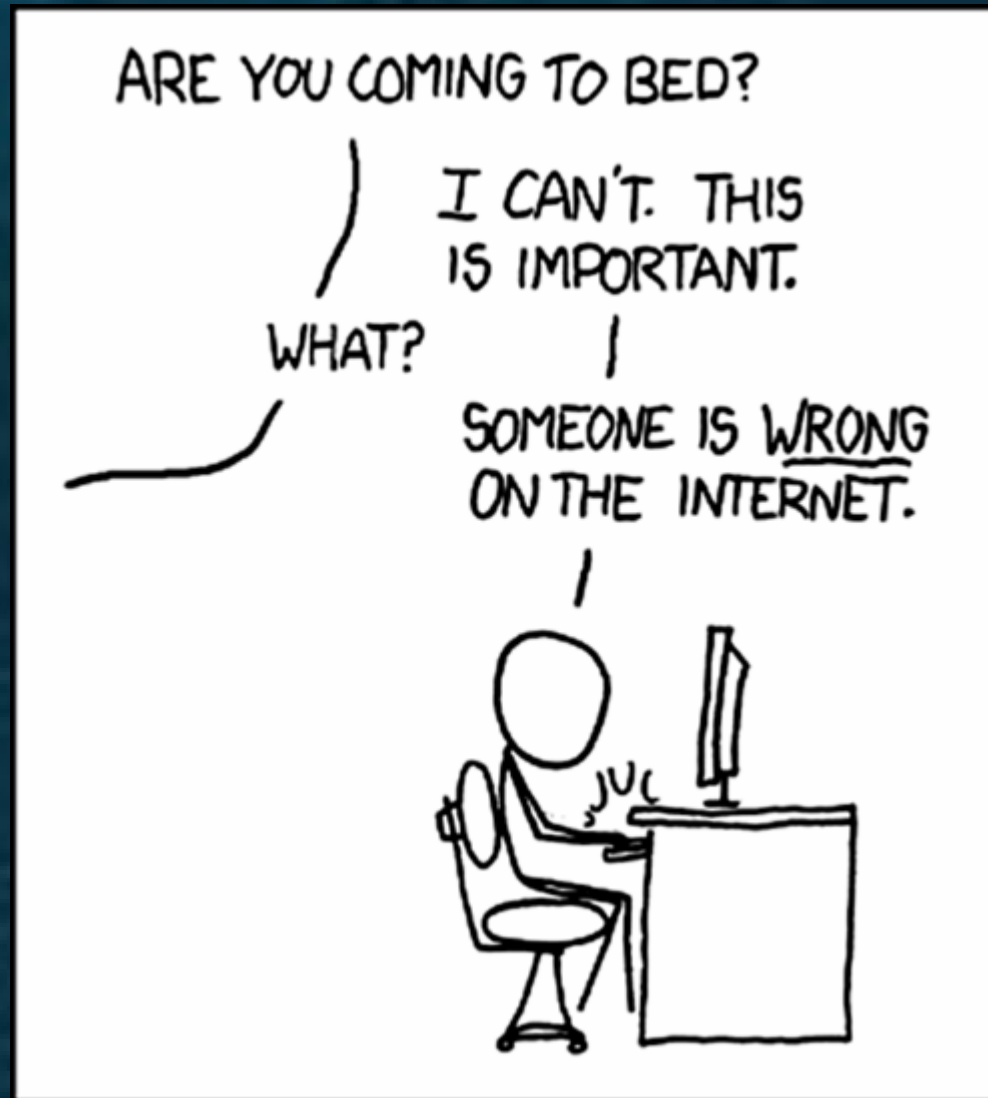
Like Expression Web only different

Interface changes can be confusing

Can go back and forth between applications

Use which one works best for the task at hand

Humorous Interlude



Expression Design

Use for graphic design in logos, mastheads, etc.

Developed by Adobe and Microsoft!

Uses vector graphics for higher resolution and detail

Use both Exp. Design and Elements to create artwork

Available at:

<http://www.microsoft.com/en-us/download/details.aspx?id=36180>

Help forum:

<http://social.msdn.microsoft.com/Forums/en-US/design/threads>

Android Apps

Apps for the Android are written in Java

Uses the Eclipse SDK

Software Development Kit

Gets very technical in a big hurry

This is a difficult install

Stock up on patience

Many FREE Plug-ins are available

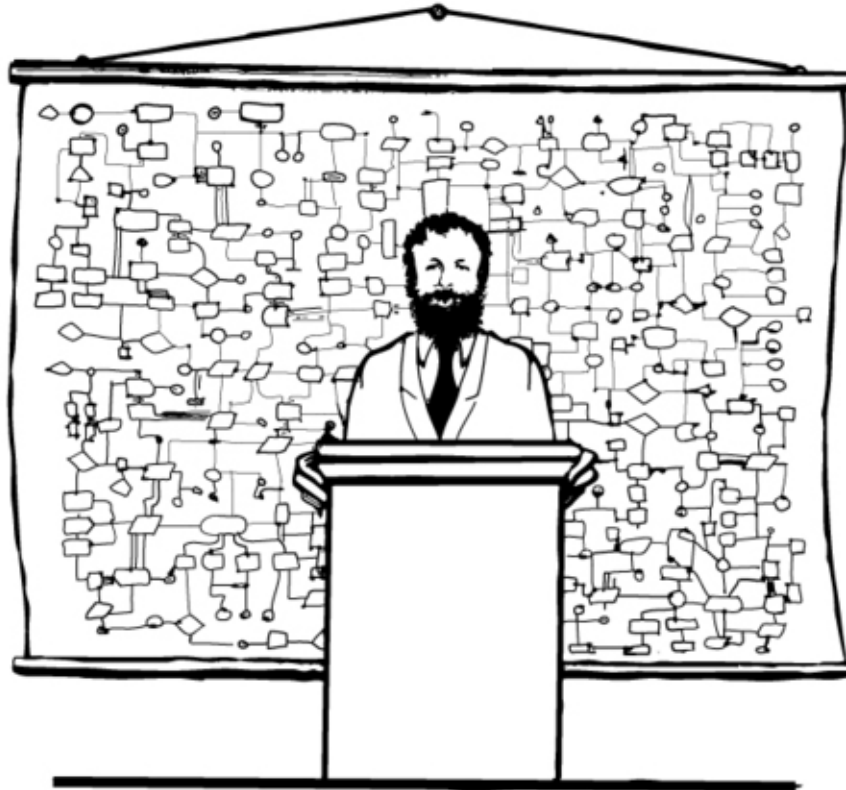
Database development **NEEDS** SQLite Manager

<http://www.coderzheaven.com/2011/04/18/sqlitemanager-plugin-for-eclipse/>

Available at:

<http://developer.android.com/sdk/index.html>

Humorous Interlude



“Now that you have an overview of the system,
we’re ready for a little more detail”

Where Do I Get Help?

Can dig thru the big fat books

You'll find that Google is indeed your best friend!

Must have an idea what you're looking for

Try different coding examples until one works

Wide-screen monitor or dual monitors

Avoid "answers" that include:

"You might try this."

"I haven't tested this, but . . ."

"This should work . . ."

Now let's do some demos!