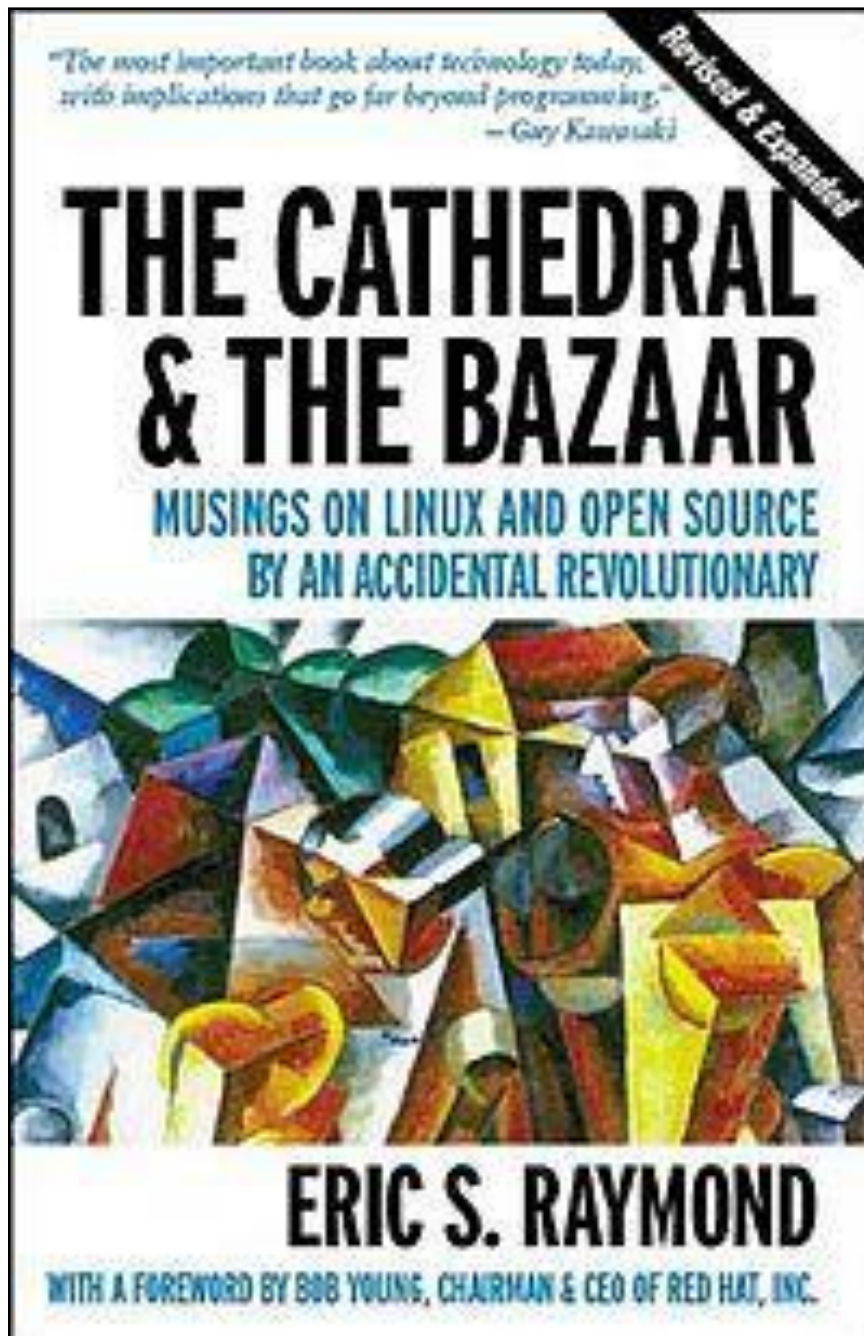


Microsoft, Ushahidi & PDLC

Cathedral vs. Bazaar

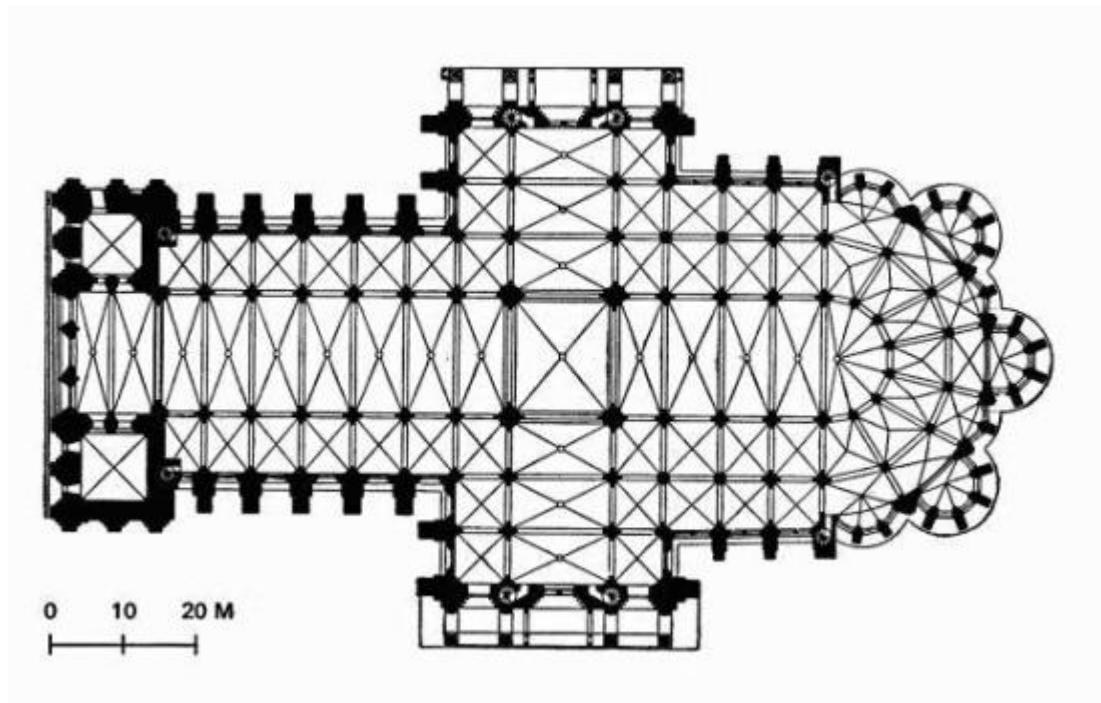


It distinguishes between two distinct styles of development.

Cathedral: Software carefully and quietly crafted by individuals within an isolated, mostly secret development team.

Bazaar: Chaotic, babbling open source development, miraculously coherent amongst both the signal and the noise of the crowds.





Commercial Software

\$1 million to \$40 million

Games, Office, Adobe

Custom Software

Millions of dollars

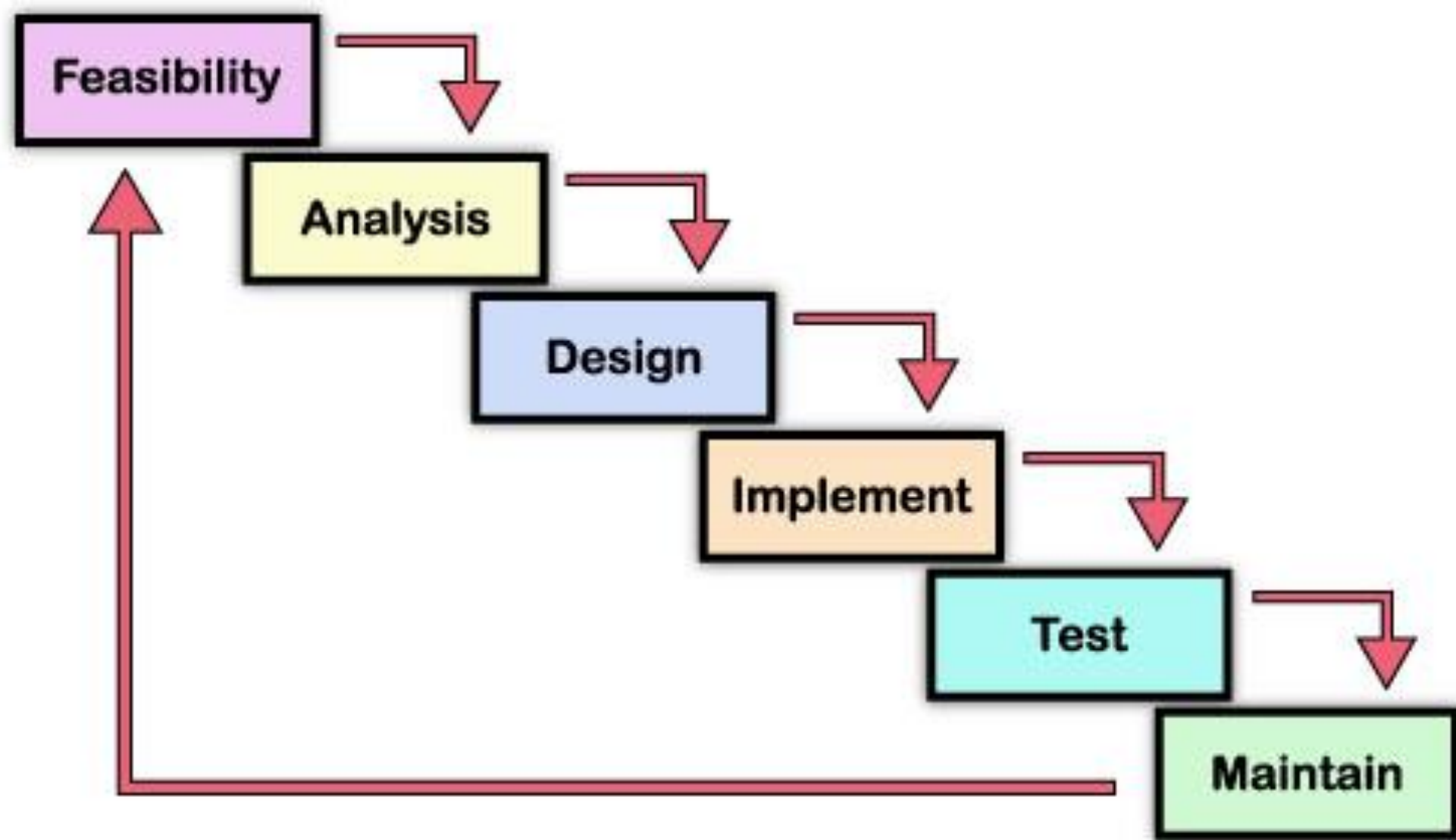
Space shuttles, super computers....

Top-Down

Centralized

Innovative code

Solves “killer apps”

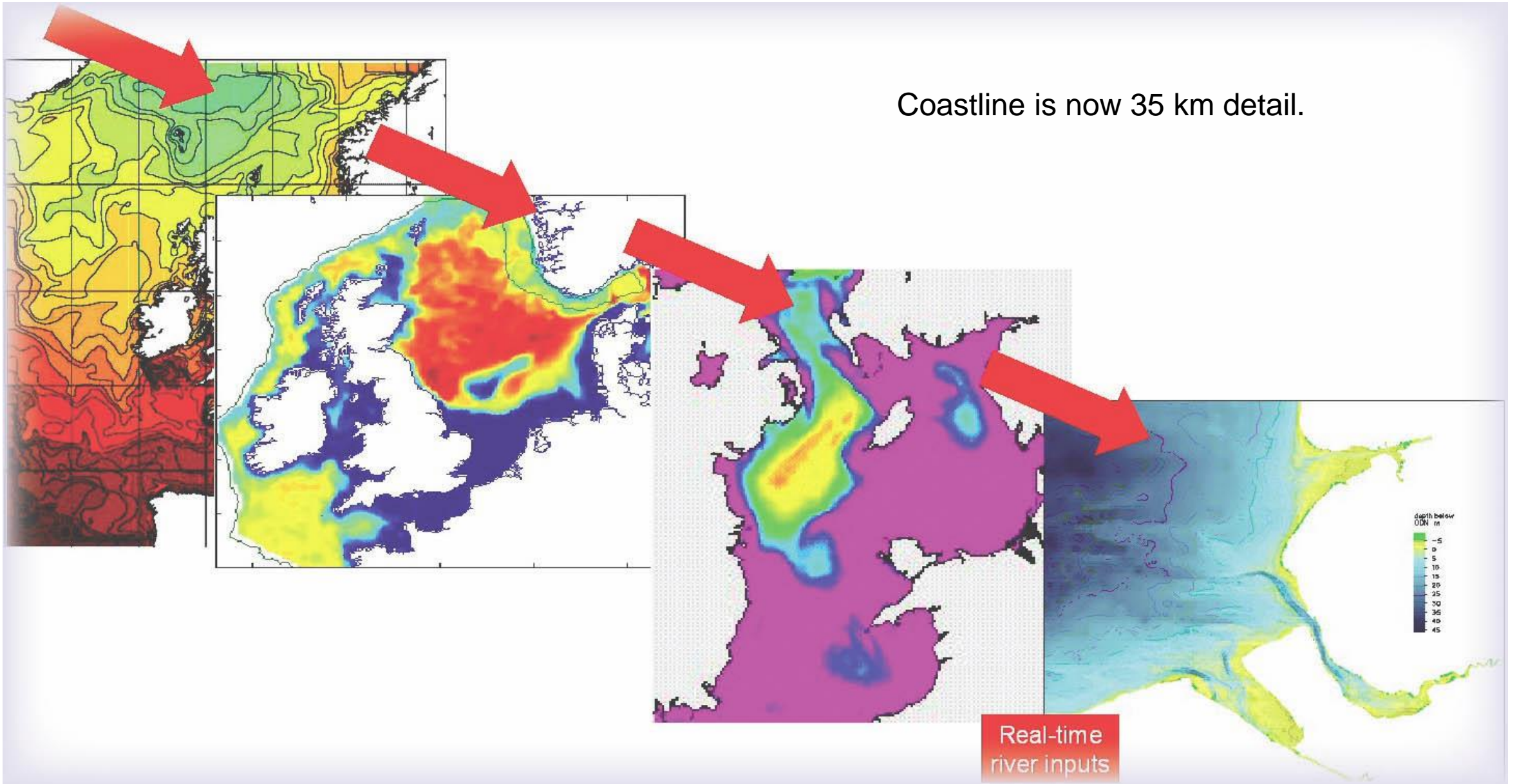




Thus, the Unified Model now contains:

- 1.carbon dioxide
- 2.heat from the sun (radiation)
- 3.rain
- 4.clouds
- 5.land surface type
- 6.ice
- 7.40 levels of the ocean
- 8.38 levels of the atmosphere
- 9.Volcanoes & ash
- 10.carbon cycle
- 11.atmospheric chemistry
- 12.vegetation interaction

Coastline is now 35 km detail.





$$\frac{D_r u}{Dt} - \frac{uv \tan \phi}{r} - 2\Omega \sin \phi v + \frac{c_{pd} \theta_v}{r \cos \phi} \frac{\partial \Pi}{\partial \lambda} = \boxed{-\left(\frac{uw}{r} + 2\Omega \cos \phi w\right)} + S^u$$

$$\frac{D_r v}{Dt} + \frac{u^2 \tan \phi}{r} + 2\Omega \sin \phi u + \frac{c_{pd} \theta_v}{r} \frac{\partial \Pi}{\partial \phi} = \boxed{-\left(\frac{vw}{r}\right)} + S^v$$

$$\boxed{\frac{D_r w}{Dt}} + c_{pd} \theta_v \frac{\partial \Pi}{\partial r} + \frac{\partial \Phi}{\partial r} = \boxed{\left(\frac{u^2 + v^2}{r}\right) + 2\Omega \cos \phi u} + S^w$$

$$\frac{D_r}{Dt}(\rho_y r^2 \cos \phi) + \rho_y r^2 \cos \phi \left(\frac{\partial}{\partial \lambda} \left[\frac{u}{r \cos \phi} \right] + \frac{\partial}{\partial \phi} \left[\frac{v}{r} \right] + \frac{\partial w}{\partial r} \right) = 0$$

$$\frac{D_r \theta}{Dt} = S^\theta$$

The dynamical core for the Met Office's Unified Model

The fully compressible, nonhydrostatic, deep-atmosphere equations in spherical geometry. In the shallow-atmosphere approximation the terms in yellow boxes are dropped and in the hydrostatic approximation the term coloured red is dropped.

The current dynamical core for the Met Office's Unified Model is based on a semi-implicit semi-Lagrangian discretization of the fully compressible, nonhydrostatic Euler equations.

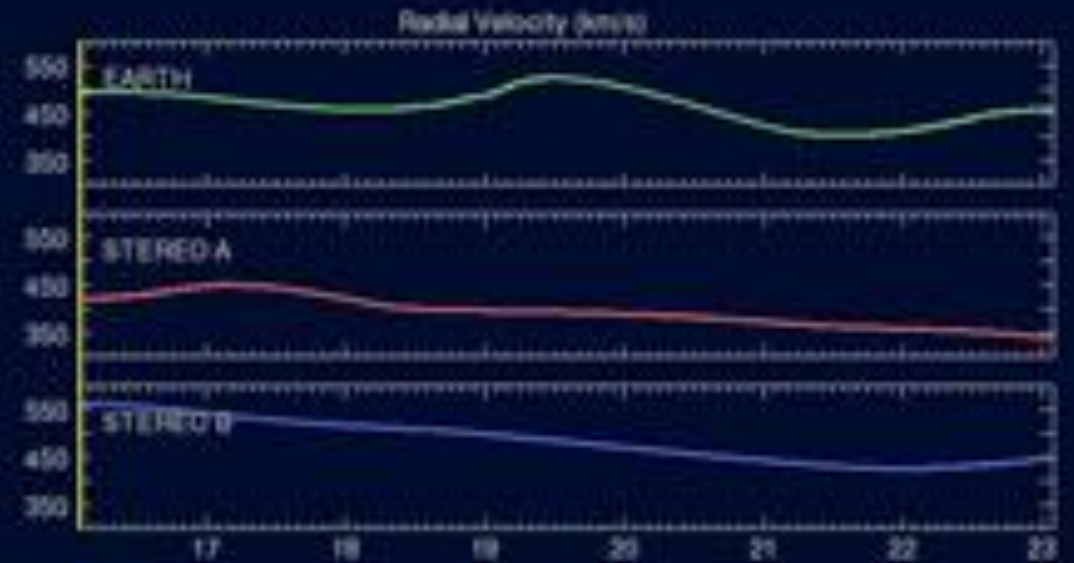
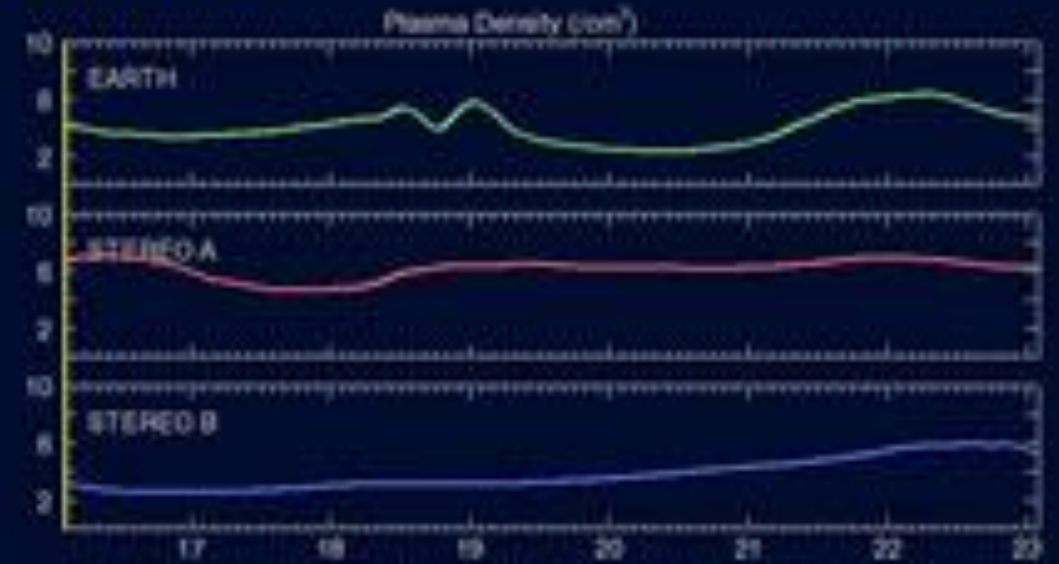
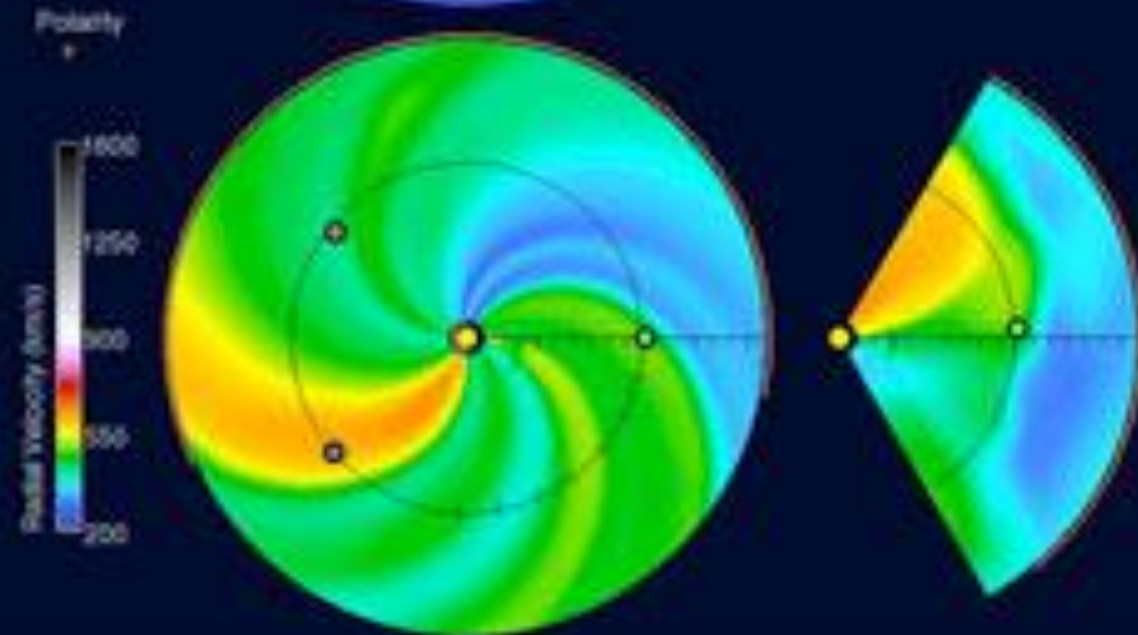
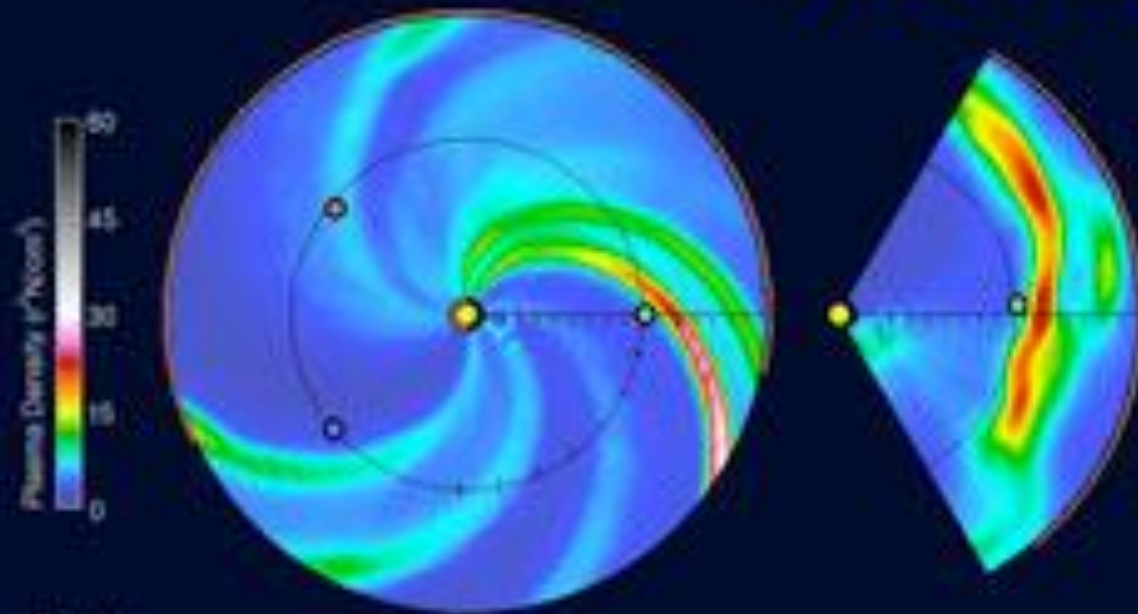
The New Dynamics dynamical core is based on the fully compressible, nonhydrostatic Euler equations which enables it to be used over a wide range of scales - from very high resolution convection permitting scales (of order 1 km) to hundreds of kilometres in climate models run for centuries.

The same model is used for NWP and climate, in both global and LAM configurations. The LAMs, therefore, use lateral boundary conditions generated from a model using the same science.

The system of equations is solved using a predictor-corrector technique employing semi-Lagrangian advection and semi-implicit time stepping. The continuity equation is used in Eulerian flux form to conserve mass since such conservation is considered vital for long climate simulations. The correction step uses a linearised form of the equation of state to obtain a three-dimensional, second-order PDE for the pressure increment. This PDE has variable

2013-07-16 02:00:00

Space Weather





Weather Station



Ocean Data Logger



Satellites

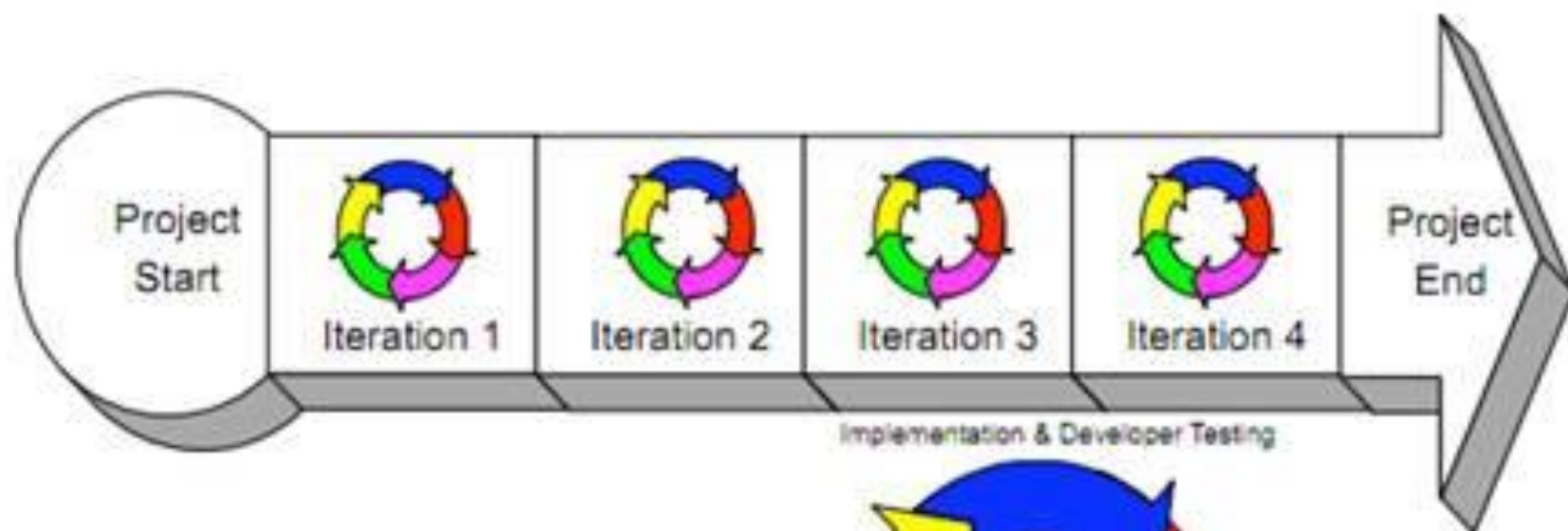


UK Meteorological Office (Met) Computer

- 1.forecasts: water (shipping), weather events, typhoons, hurricanes, floods, volcanic ash, air quality**
- 2.consistently ranked in top 3 for global weather forecast**
- 3.gathers info from weather satellites, dataloggers, processes in 2 IBM supercomputers**
- 4.tracks the fluid exchanges of mass and energy between millions of points in the atmosphere**
- 5.software - "Unified Model" - over 1 million lines of code**
- 6.two months to boot**
- 7.consumes more energy than 2000 homes**
- 8.weights ton and half, takes of 5 m of floor space**
- 9.cost 33 million pounds (2012)**



Actually, the £ 33 million is out of date now. The new computer they want (2020) is £1.2 billion.



Iteration Detail



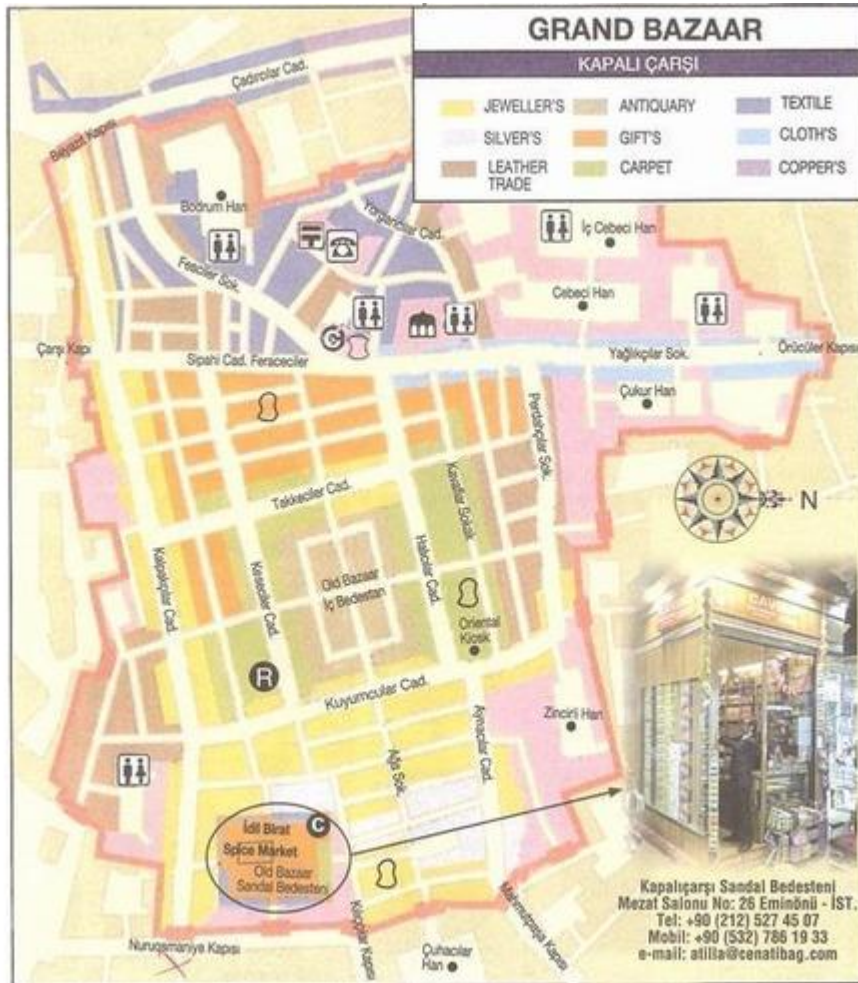


YAGLIKÇILAR CAD.
▲ FEŞİLER SK.
▲ FERACEÇİLER SK.
▲ BODRUM HAN / WC (H)
▲ GANİ ÇELEBİ SK.
YapıKredi

KAZANLAR SK.
▲ FERİDÖZLER SK.
▲ KALPAÇKILAR CAD.
▲ SOĞUKHAN KAVURMACI
YapıKredi

KAZANLAR BOKAĞI

BAĞI BABA



Smaller apps/Web development

Continual re-release

Innovation is in idea, not in code

Basic functionality – ‘killer apps’ are rare

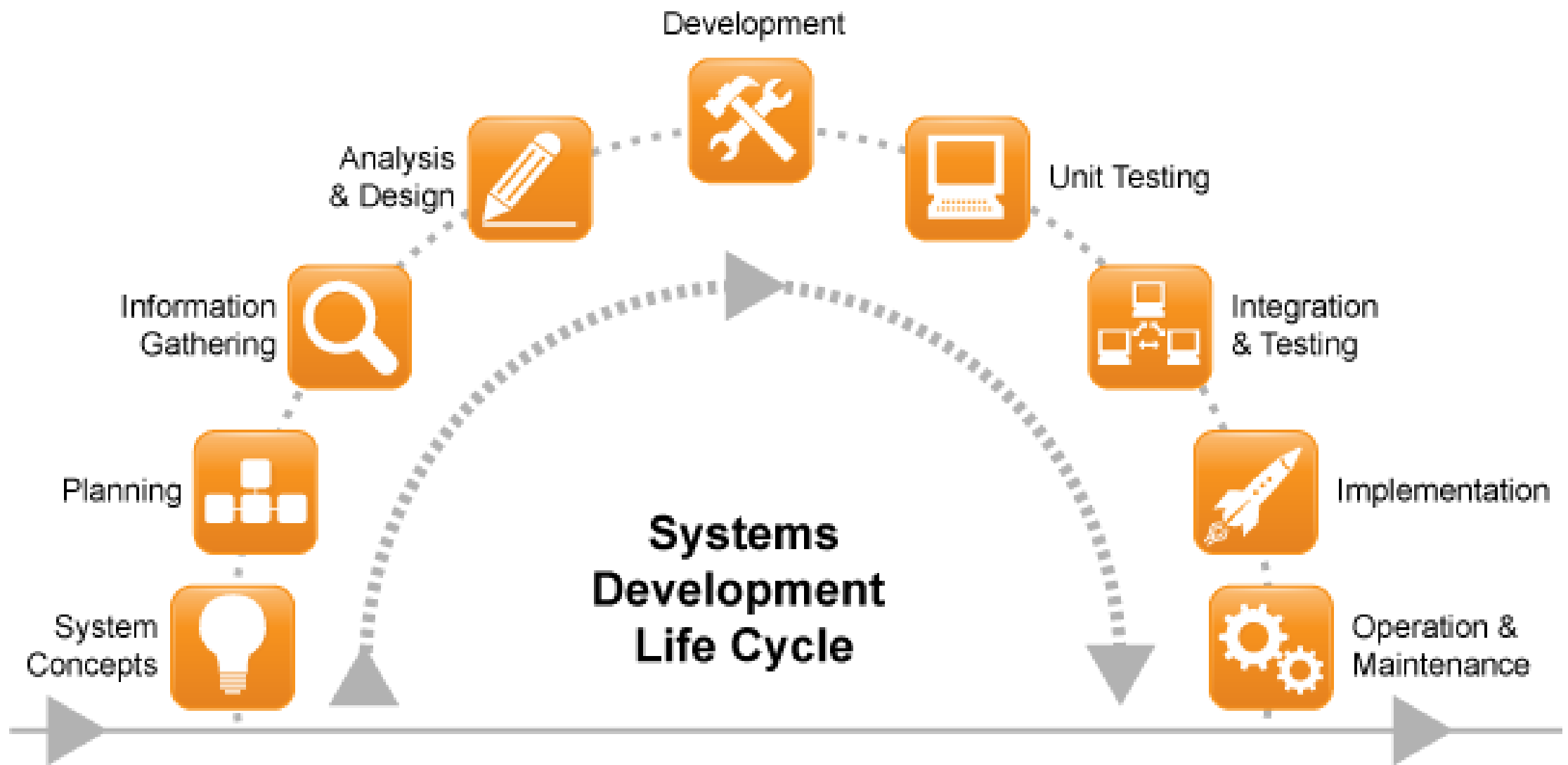
Cathedral



Bazaar







Phases of PDLC

- There are 4 phases of the PDLC
- **A. Analysis:** the overall idea of the game is developed.
- **B. Design:** the detailed plan for the game is created.
- **C. Coding:** the program is coded and tested.
- **D 1. Reflection:** the program is sold and the sales performance is evaluated.
- **D 2. Maintenance:** providing help and bug fixes for your program



Analysis

Define your problem.



Need to be identified

CLIENTS

User-focus groups



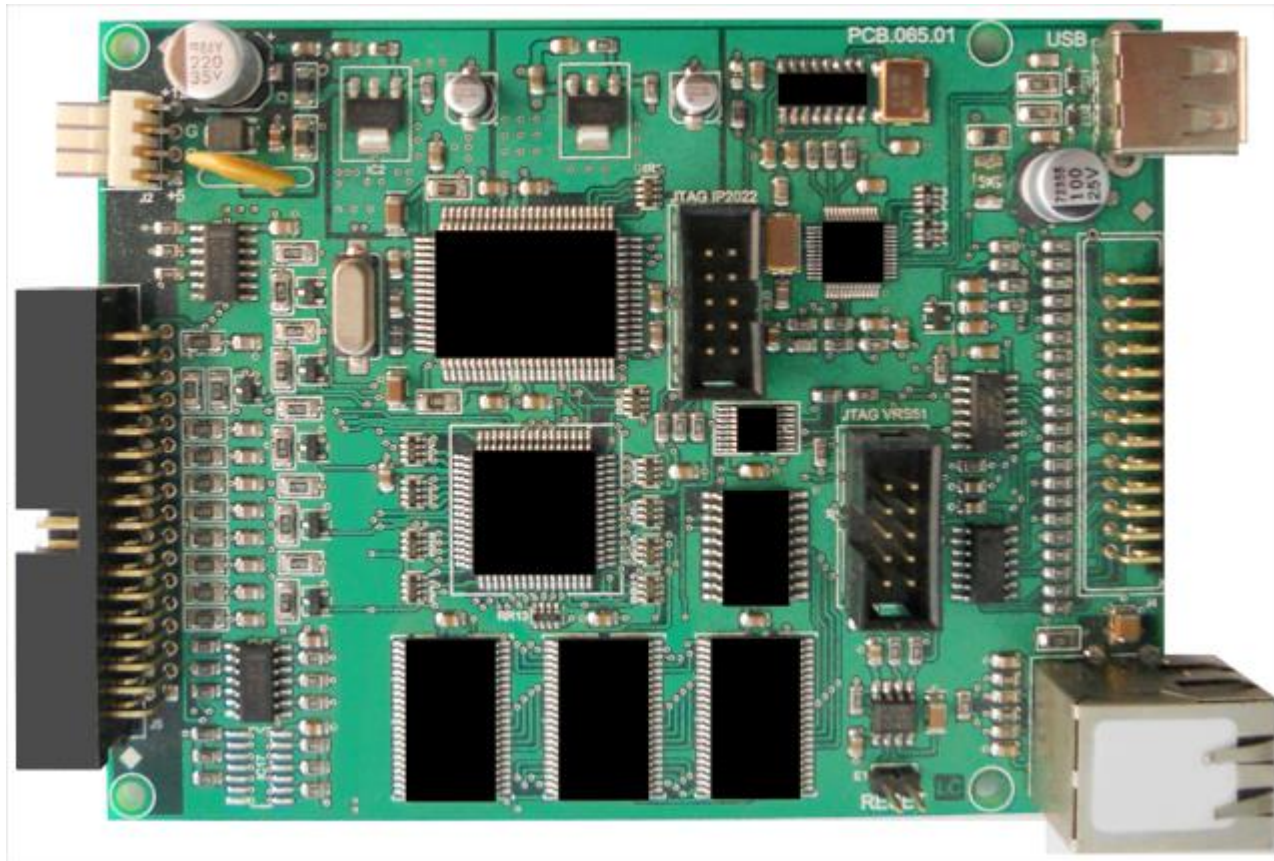
Interviews with Client



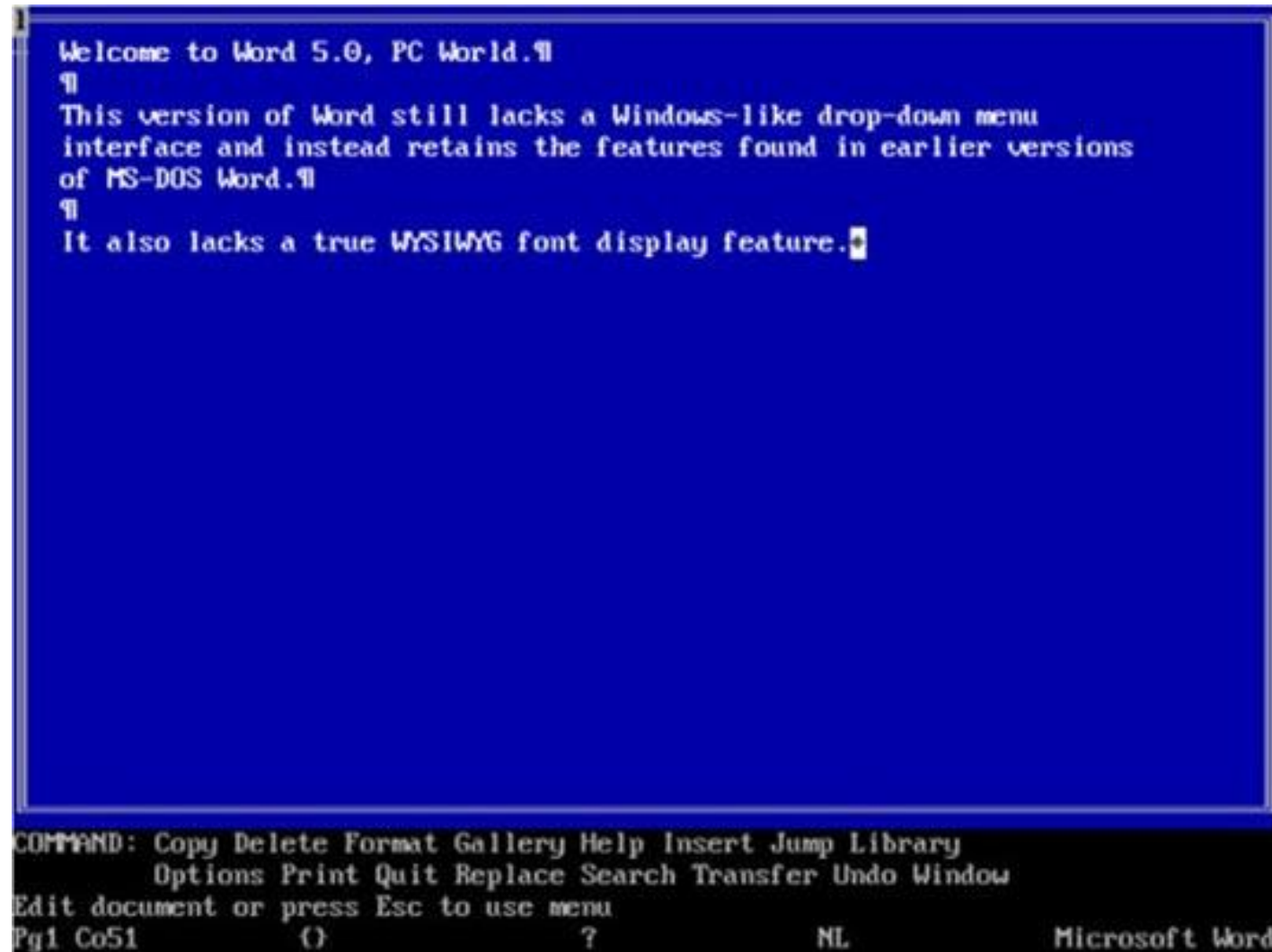
Example Problem: Run MS Word in the Cloud



Get in
the Cloud



Identify the hardware and software you will be working with.



Really old
version of Word

Interface
entirely dictated
by screen and
hardware.

2. Overall Description.....	
2.1 Product Perspective.....	
2.2 Product Features.....	
2.3 User Classes and Characteristics.....	
2.4 Operating Environment.....	
2.5 Design and Implementation Constraints.....	
2.6 User Documentation.....	
2.7 Assumptions and Dependencies.....	
3. System Features.....	
3.1 System Feature 1.....	
3.2 System Feature 2 (and so on).....	
4. External Interface Requirements.....	
4.1 User Interfaces.....	
4.2 Hardware Interfaces.....	
4.3 Software Interfaces.....	
4.4 Communications Interfaces.....	
5. Other Nonfunctional Requirements.....	
5.1 Performance Requirements.....	
5.2 Other Requirements.....	

Does your client need it?



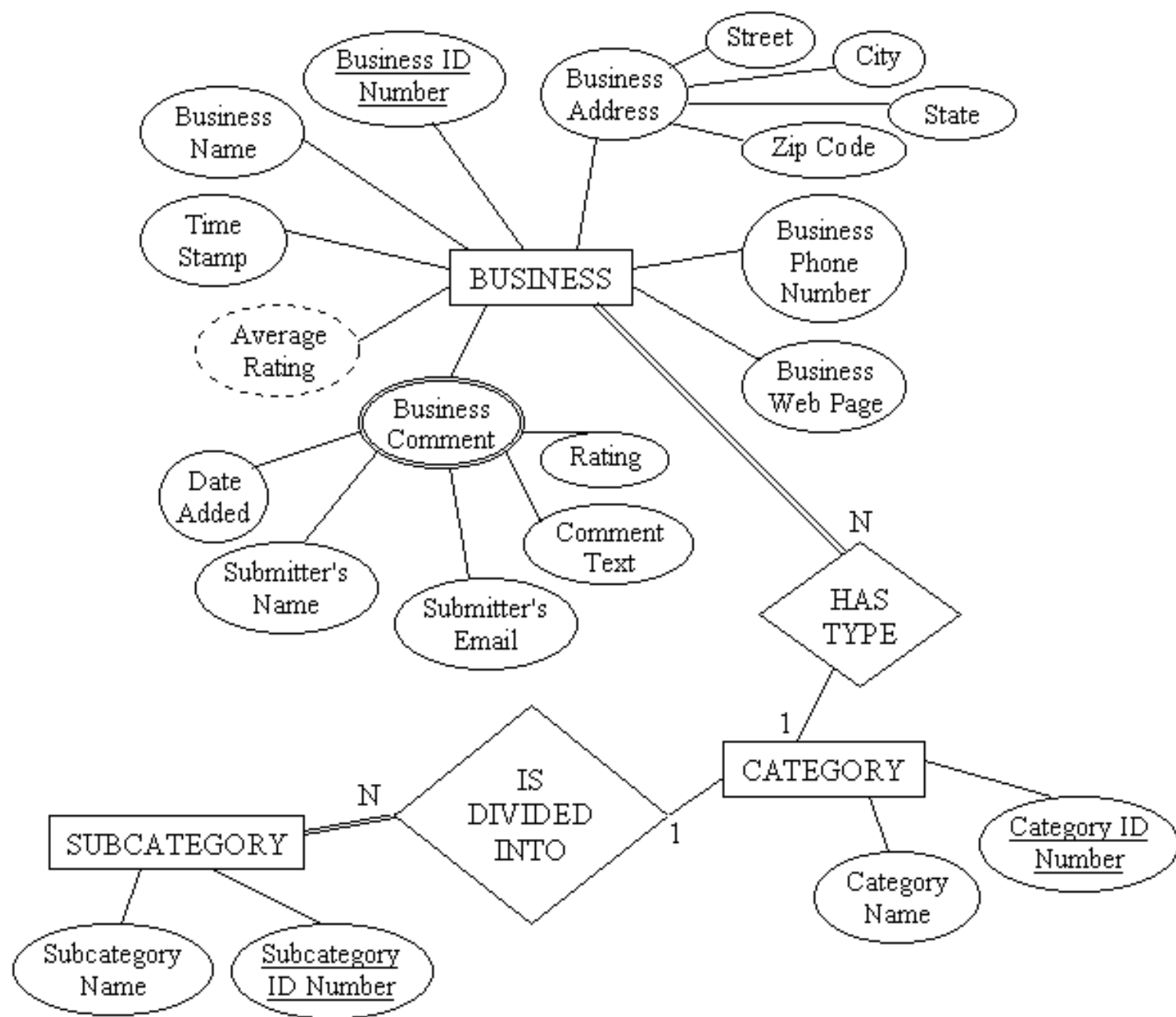
security

Analysis Phase Summary 1

- *End result:* Overall idea for the game is decided
- Includes:
 1. Define the problem
 2. Brainstorming
 3. Interviews
 4. High concept statements
 5. Pitch the concept
 6. User focus groups
 7. Develop a specifications list
- *Jobs?* Analyst, CEO



Design



Basic Flowchart Shapes



Process



Decision



Document



Data



Start 1



Start 2



Predefined process



Stored data



Internal storage



Sequential data



Direct Data



Manual input



Card



Paper tape



Delay



Display



Manual operation



Preparation



Parallel mode



Loop limit



Terminator



On-page reference



Off-page reference



Flowchart shapes



Auto height text



Dynamic connector



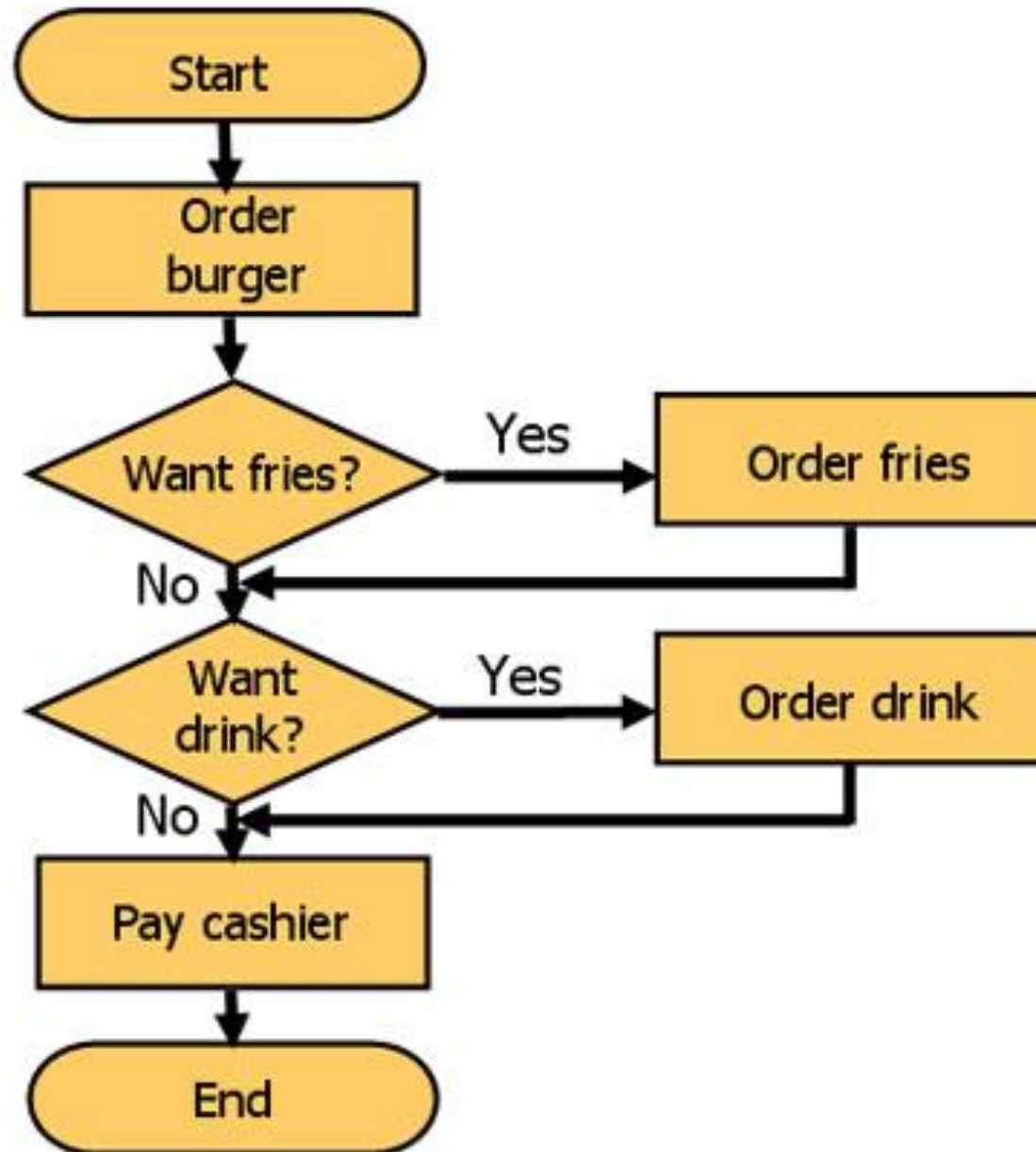
Line curve connector



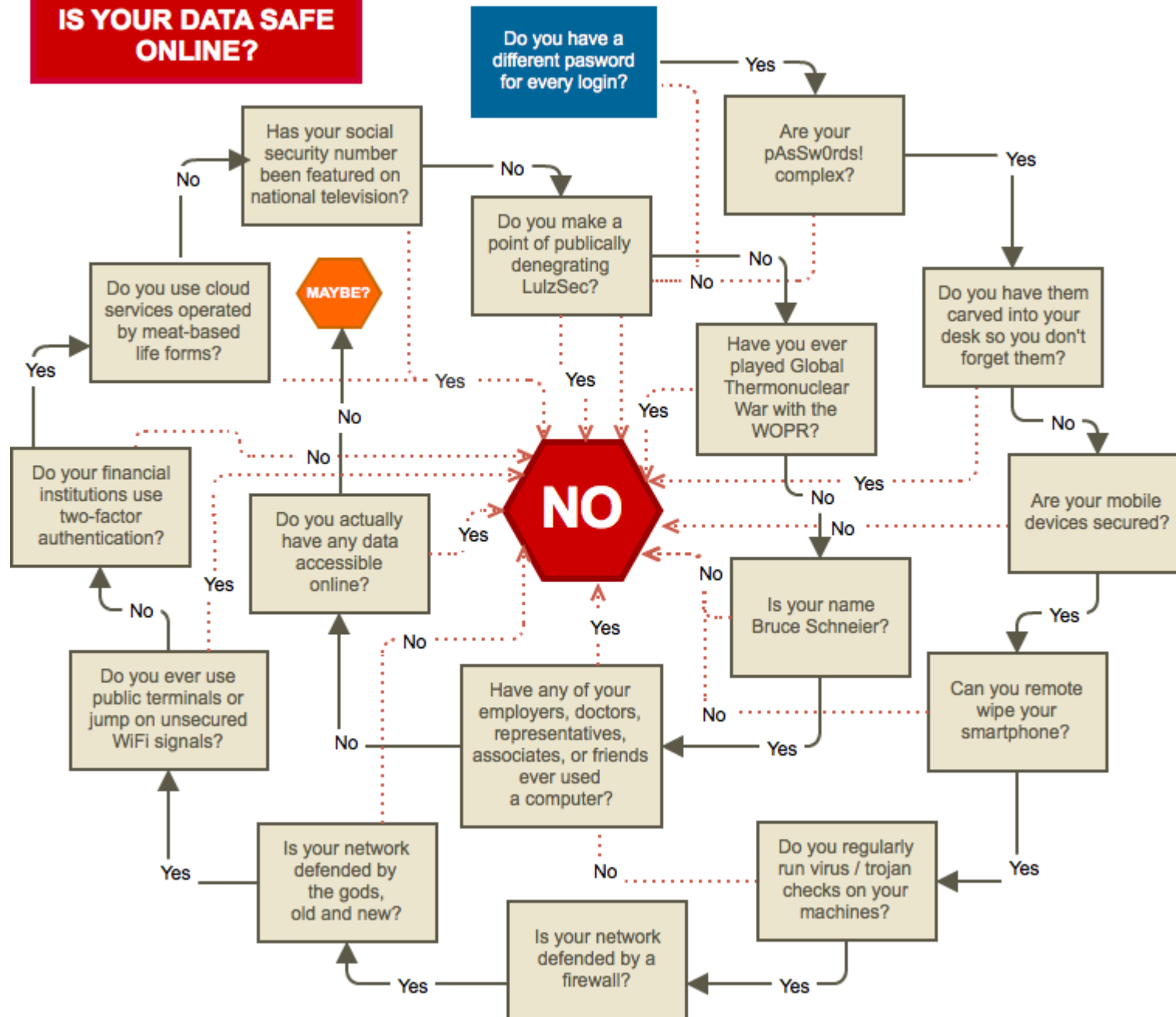
Control transfer



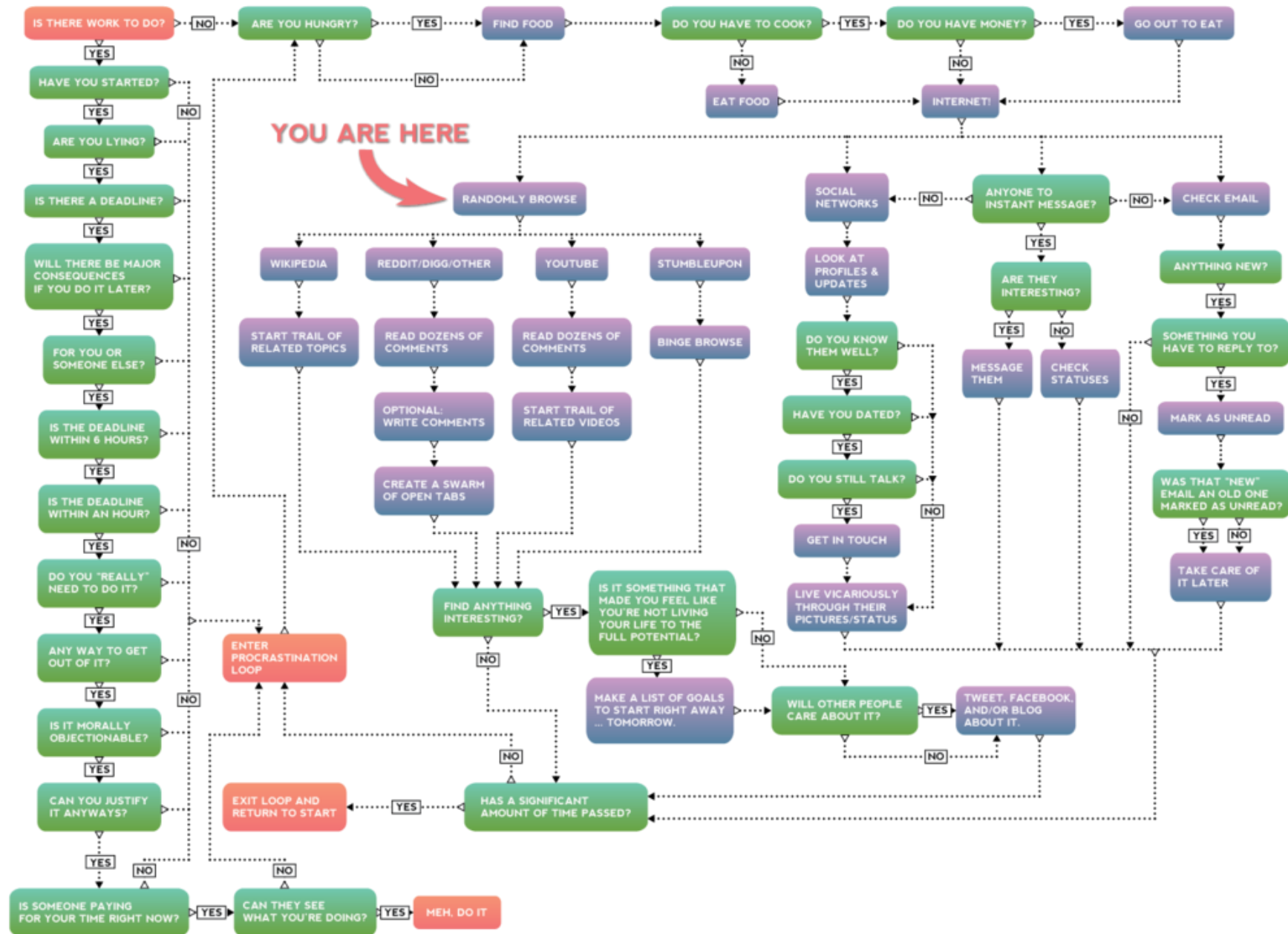
Annotation



IS YOUR DATA SAFE ONLINE?



THE PROCRASTINATION FLOWCHART



If the characters form a valid word.

TABLE 3

PROCEDURE VALID WORD (WORD BUFFER, L, R) RETURNS
(BOOLEAN);

DECLARE

WORD BUFFER ARRAY (1 : *) OF CHARACTER,

(L, R, TRIAL R) INTEGER,

FOUND BOOLEAN;

FOUND = FALSE;

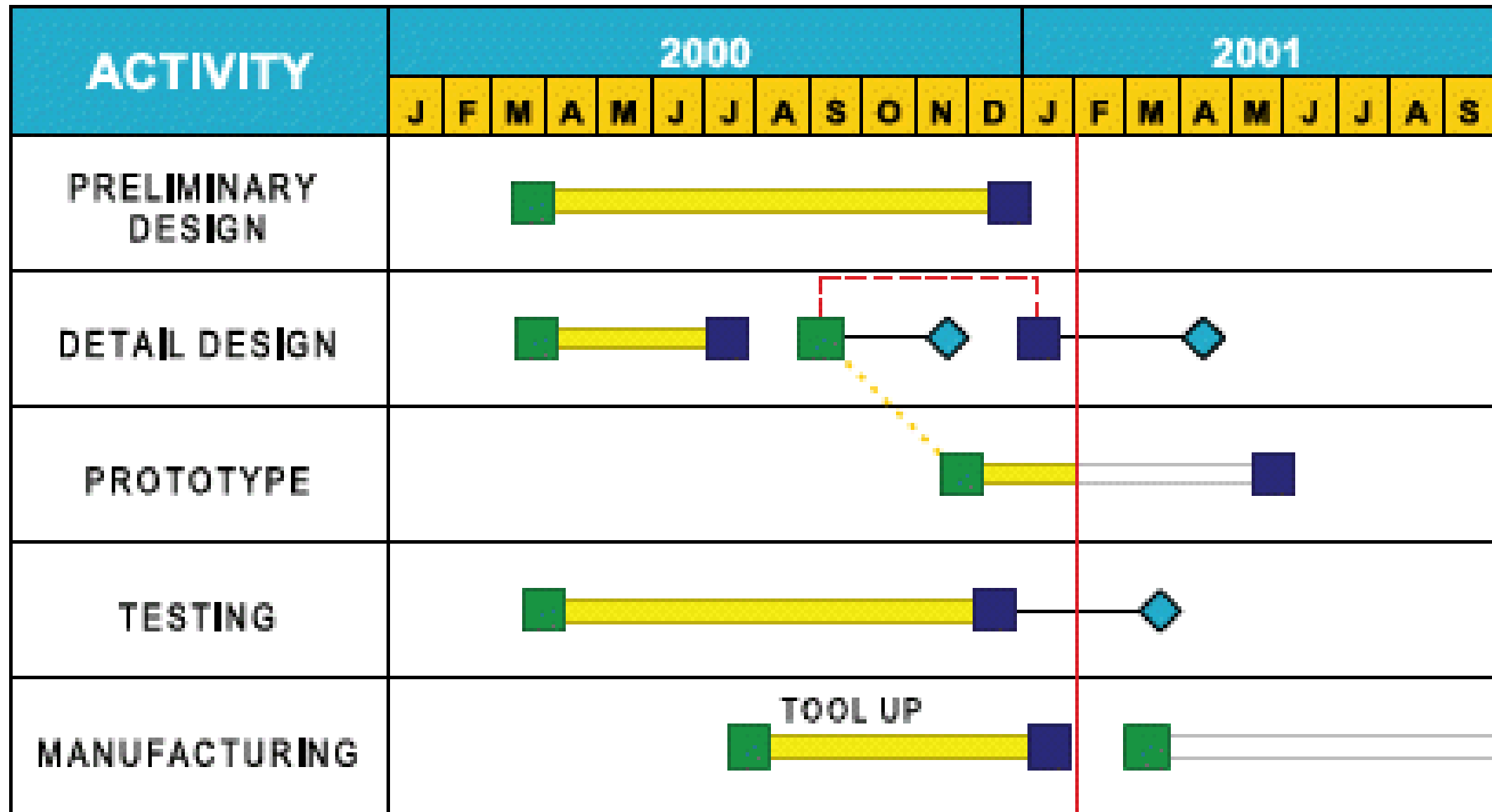
CALL DISCARD PUNCTUATION (WORD BUFFER, L, R);

IF SPECIAL CASE (WORD BUFFER, L, R) OR

DICTIONARY (WORD BUFFER, L, R) OR

Wonderful New Widget

Created using Milestones software.
www.kidasa.com



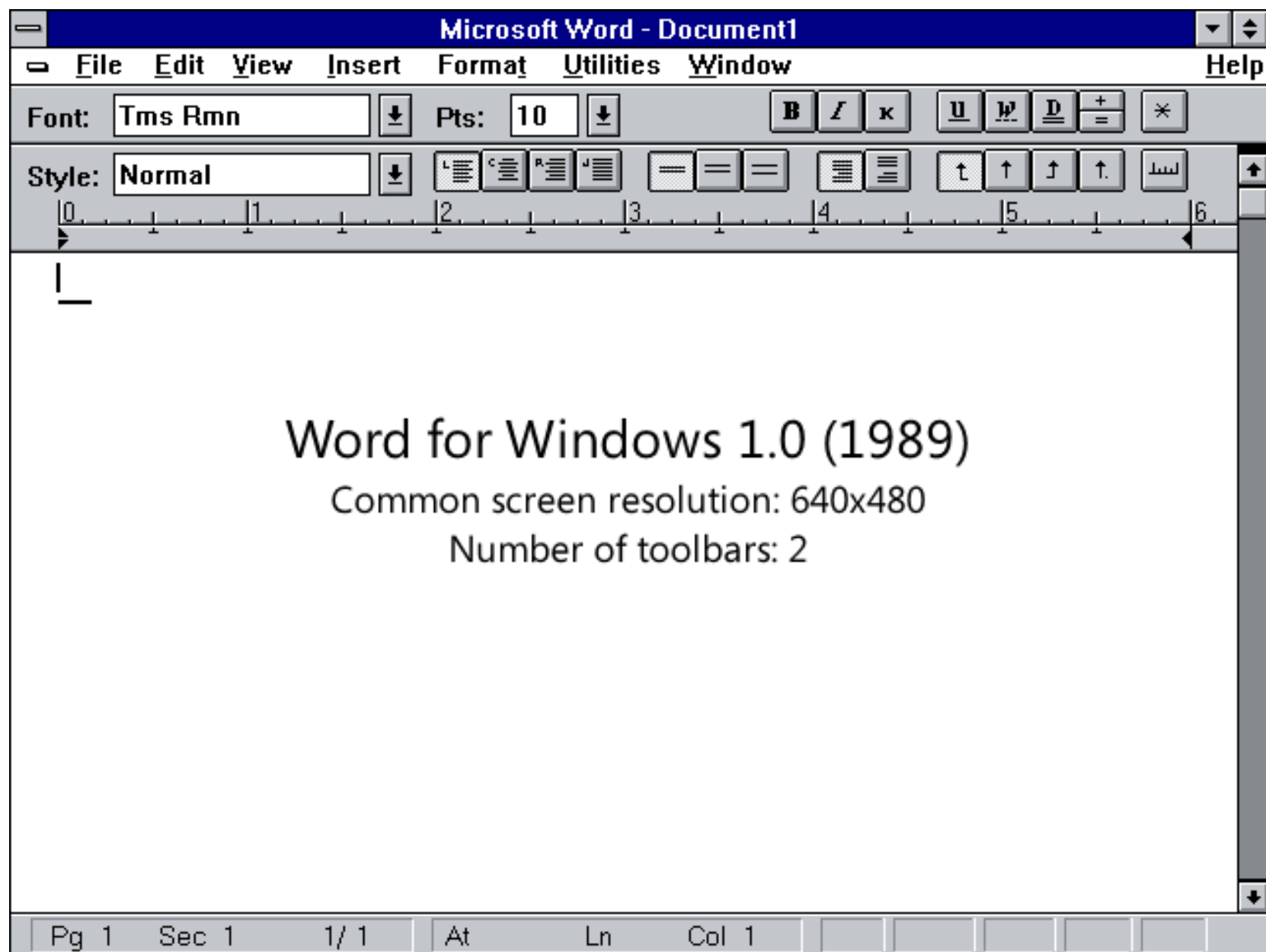
Design Phase

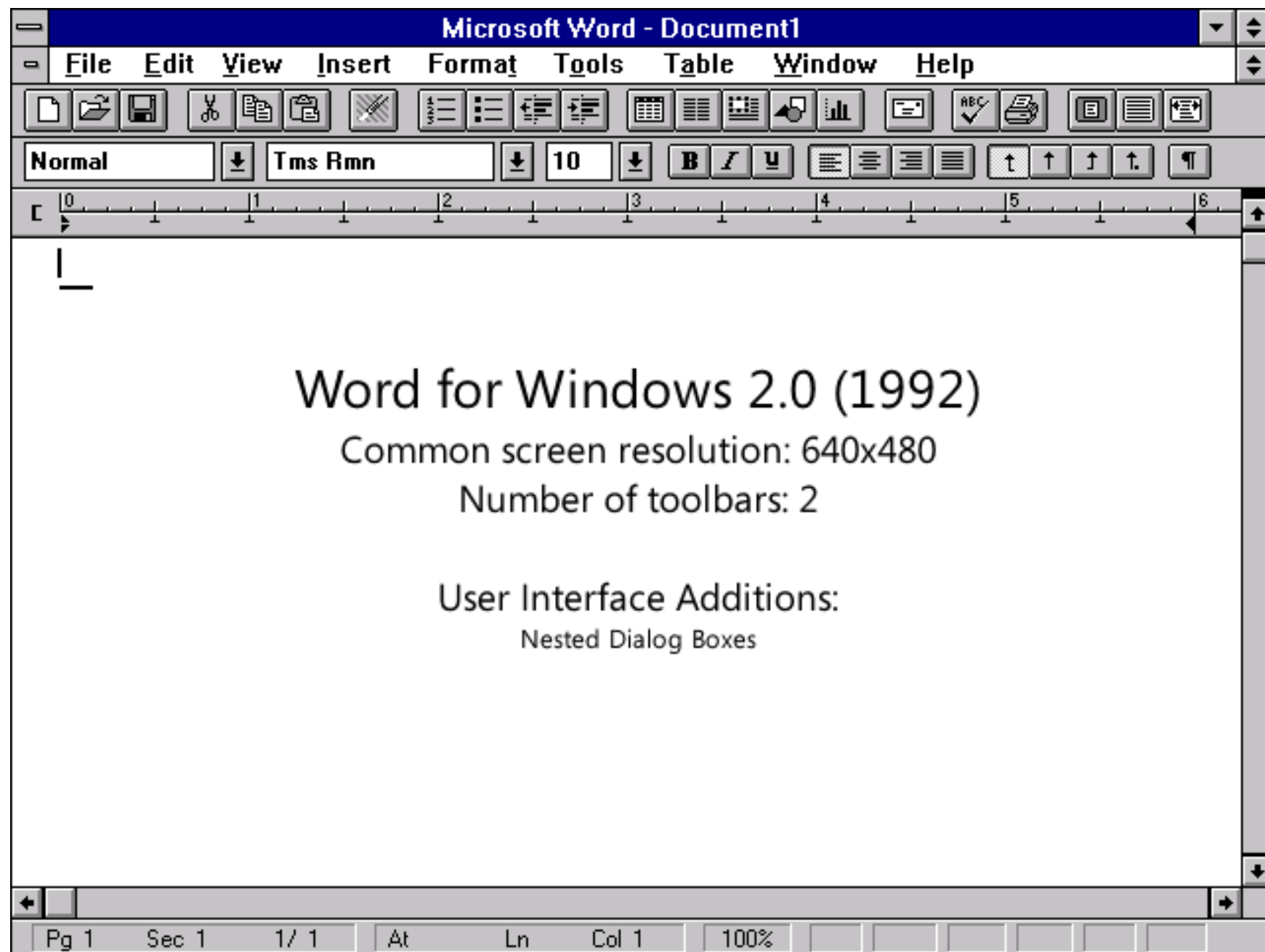
2

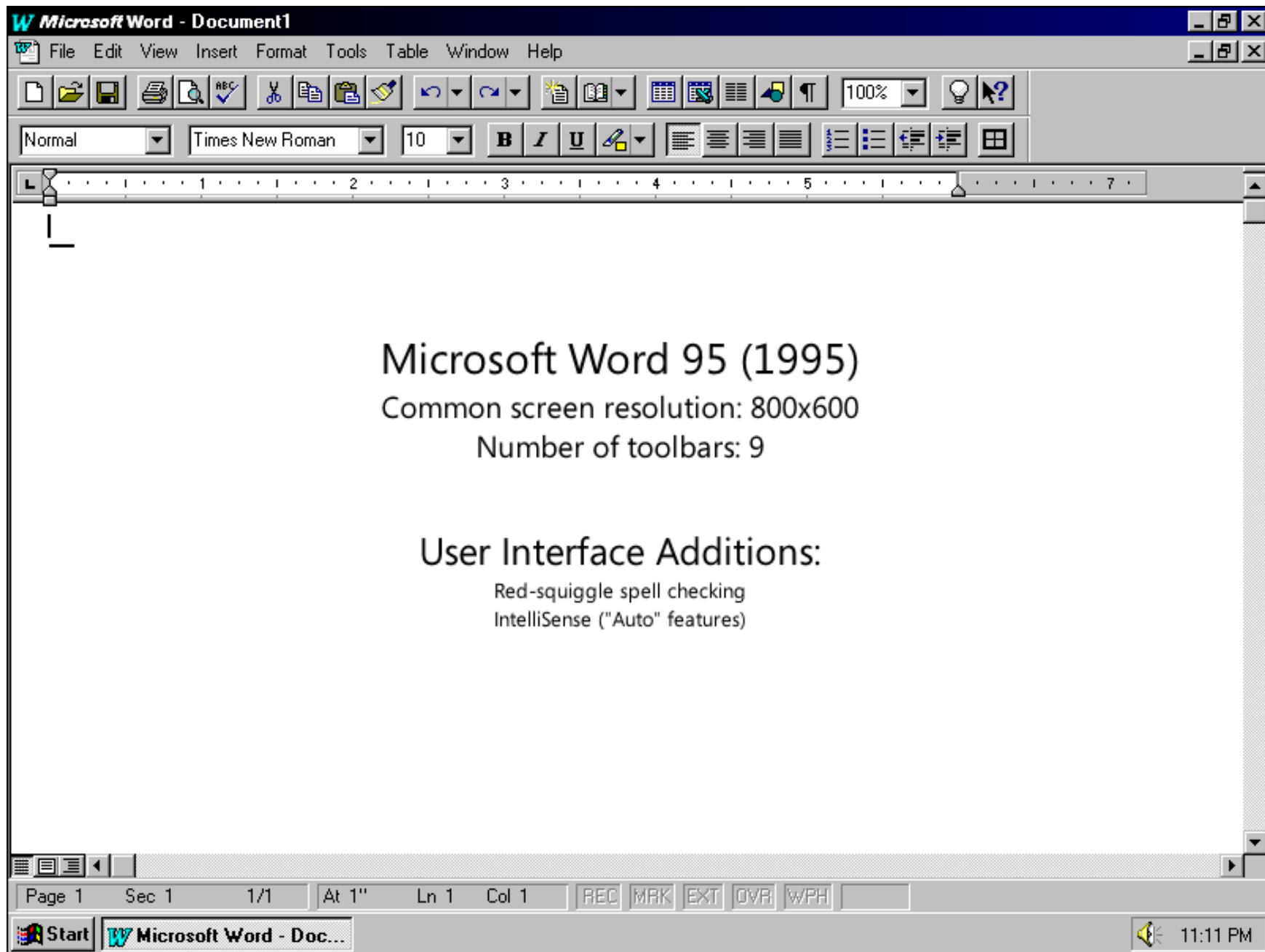
- *End result:* Detailed plans for the game
- Includes:
 1. Flow charts, Structure Chart
 2. Memory Diagrams
 3. Detailed character designs
 4. Music composition & recording
 5. Artwork
 6. Writing story line
 7. Design prototypes
 8. Level design
- *Jobs?* Writer, Musician, Graphic Designer, Artist, Code Designer, Voice Artist

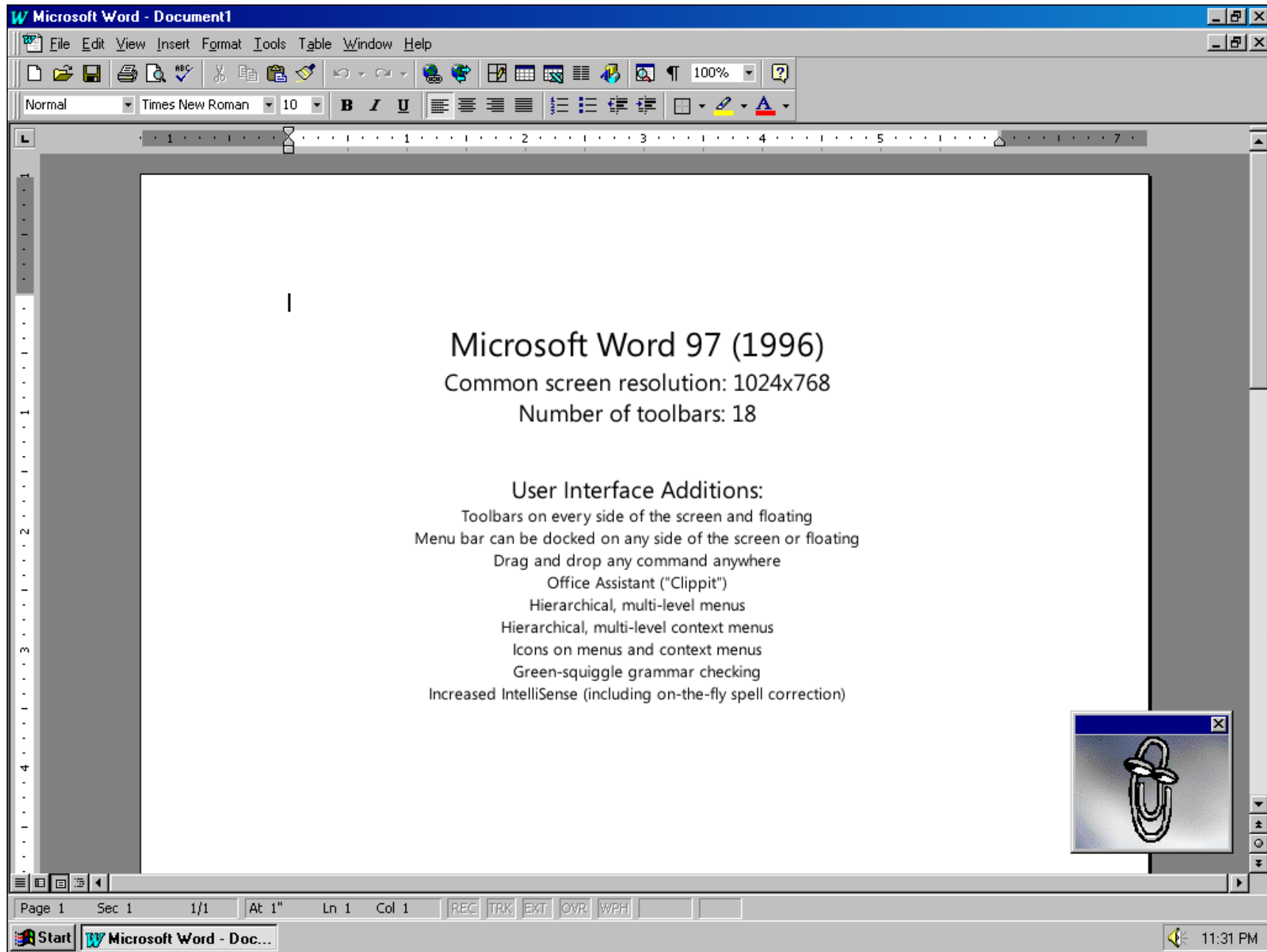
3

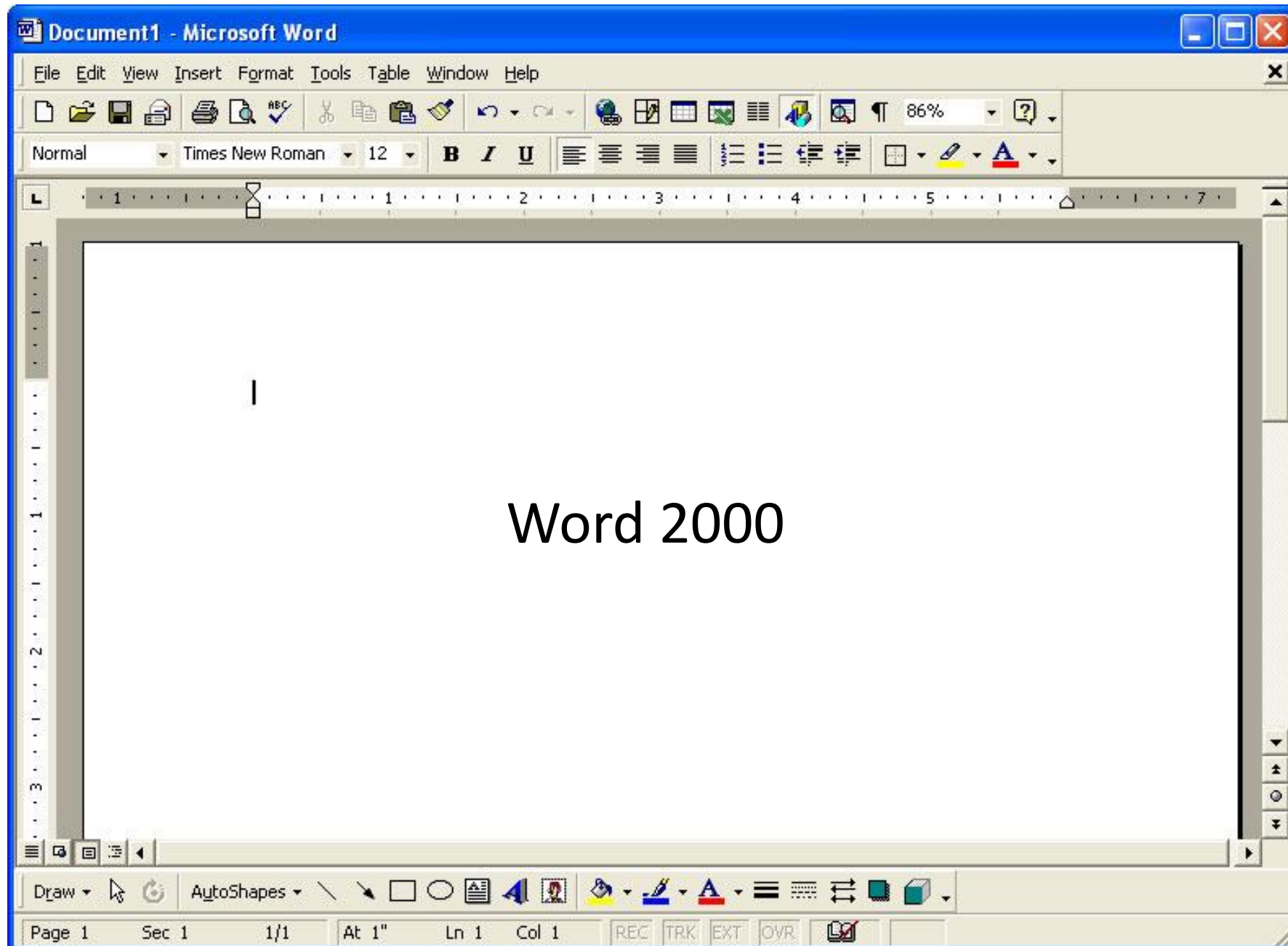
Code

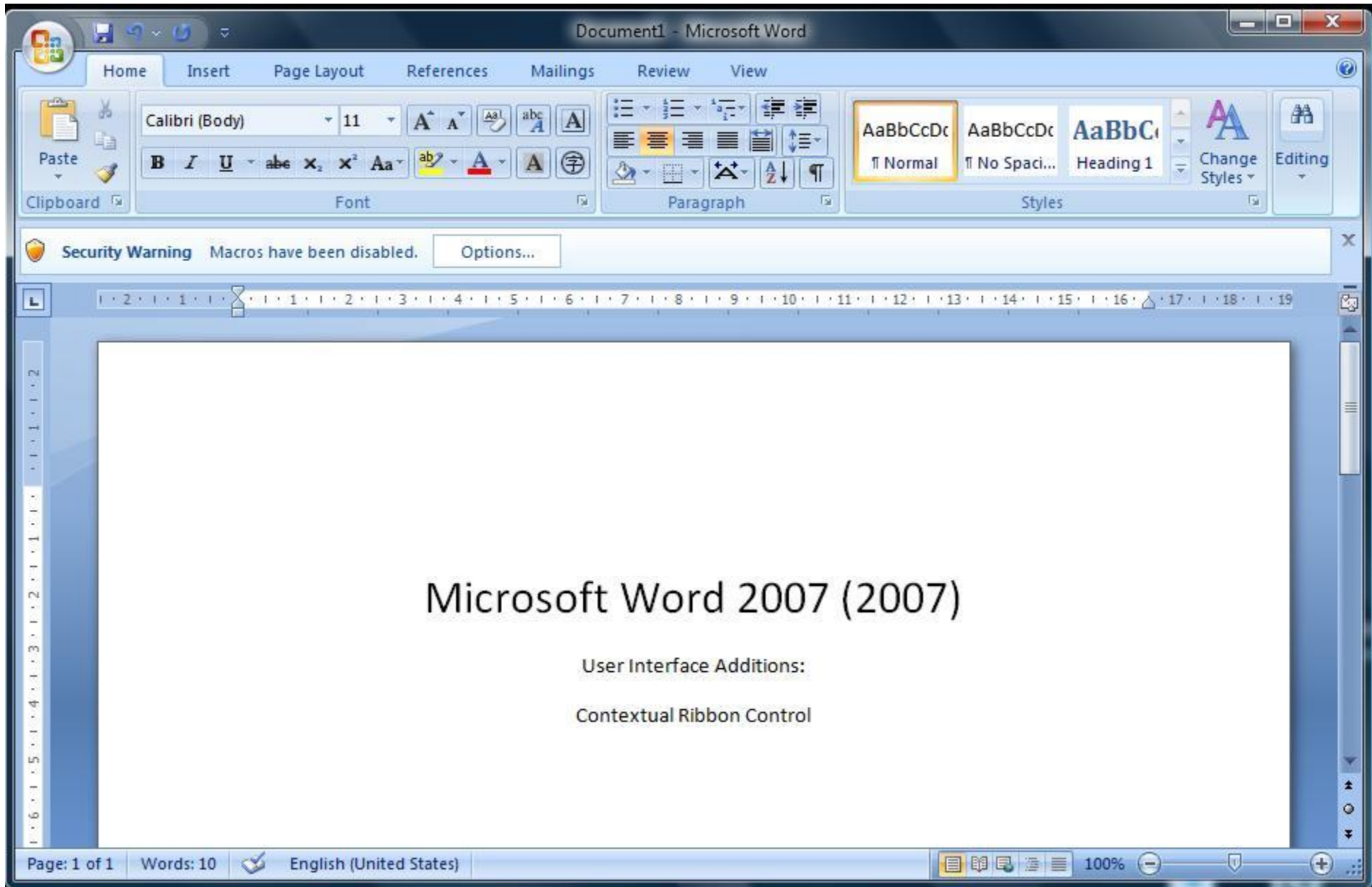














Word 2013 Preview

Recent

2013 Packaging Project

Jon Kaufthal's SkyDrive » Documents

Fall Calendar

SkyDrive » Contoso » Documents

Event Schedule

Jon Kaufthal's SkyDrive » Documents

Game Scores

Documents

Annual Report (draft)

Jon Kaufthal's SkyDrive » Documents

 Open Other Documents

Search online templates

Suggested searches: Letters Resumes Faxes Labels Cards Calendar

User Help

Jon Kaufthal
jonk@microsoft.com
[Switch account](#)



← → | Home | **Testing Center** | Plan

Contents | Results | Properties

New Test Case 2*: Add item to shopping cart

Title: Add item to cart

Status:

Assigned To: Andrew Hill

State: Design

Priority: 2

Automation Status: Not Automated

Microsoft Test Manager includes a toolbar that you can use to format the text of your steps. You can use various formatting options, for example bold, underline, or color highlighting to emphasis key points in your comments.

Add a description

STEPS SUMMARY TESTED BACKLOG ITEMS LINKS ATTACHMENTS ASSOCIATED A...

Insert step Insert shared steps Insert parameter

B *I* U [Color] [Background Color] [Image]

	Action	Expected Result
1.	Login to application a.) Choose the Sign In link in upper-right corner. b.) In the user field, type your username. c.) In the password field, type your password. d.) Choose the Sign In button.	a.) The Sign In page dis... d.) You are redirected to...
2.	Go to the Ordering section	Check 10 available meals
3.	Double-click on the <u>cheeseburger</u> image	Check 1 added to cart
	Click here to add a step	

Testing

TestInstrInTables_Excel [Compatibility Mode] - Microsoft Excel

	A	B	C
1	Title: An example of manual test	To start testing, press 'Begin Test'. To cancel testing, press 'Cancel'.	
2	Substep captions	Substep instructions	
3	1. Opening the Run dialog	To open the Run dialog, do the following: ...	You should see the Run dialog.
4	2. Launching the Orders application	To launch the Orders application, do the following: ...	The main window of Orders will be displayed.
5	2.1 Creating a new order	To create a new order: *Select Orders New order from the main menu. *Specify the needed values in the Order form. *Click Ok.	The new record will be created. Comments: You can repeat these actions to create more orders.
6			
7	2.2 Editing the order	To edit the order, do the following: ...	Make sure that the cell value has been changed. Notes: Note that ...
8			
9	2.3 Deleting the order	To delete the order, do the following: ...	The record will be deleted.
10			
11	3. Closing the Orders application	To close the Orders application, do the following: ...	The Orders application will be closed.
12			
13			
14			
15			

Test caption

Test instructions

Are used to recognize steps and substeps

Step notes and comments

Beta Testers



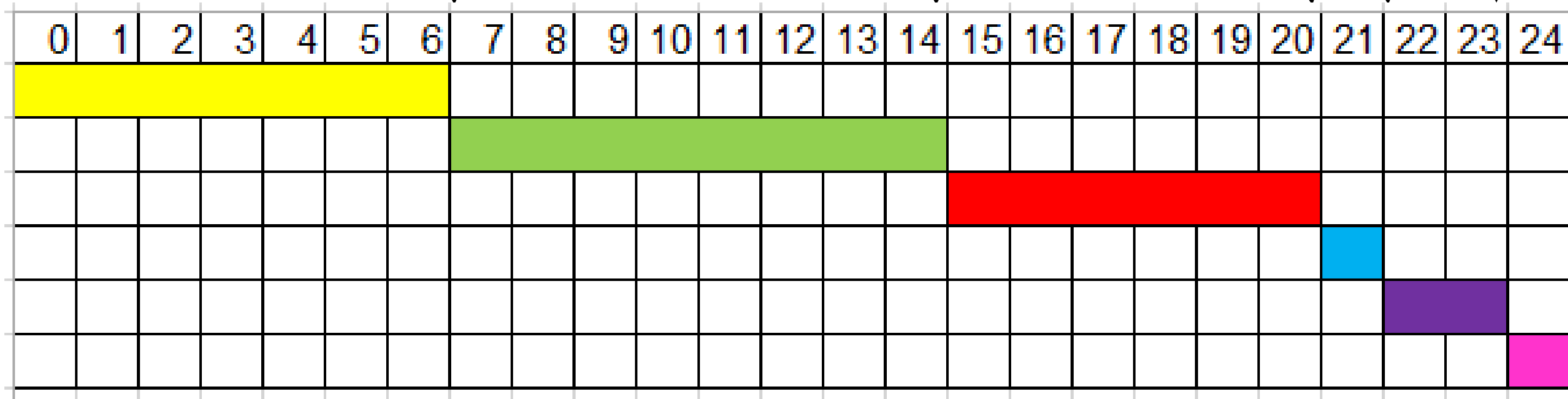
First Playable

Alpha

Code Freeze

Beta

Gold
Master

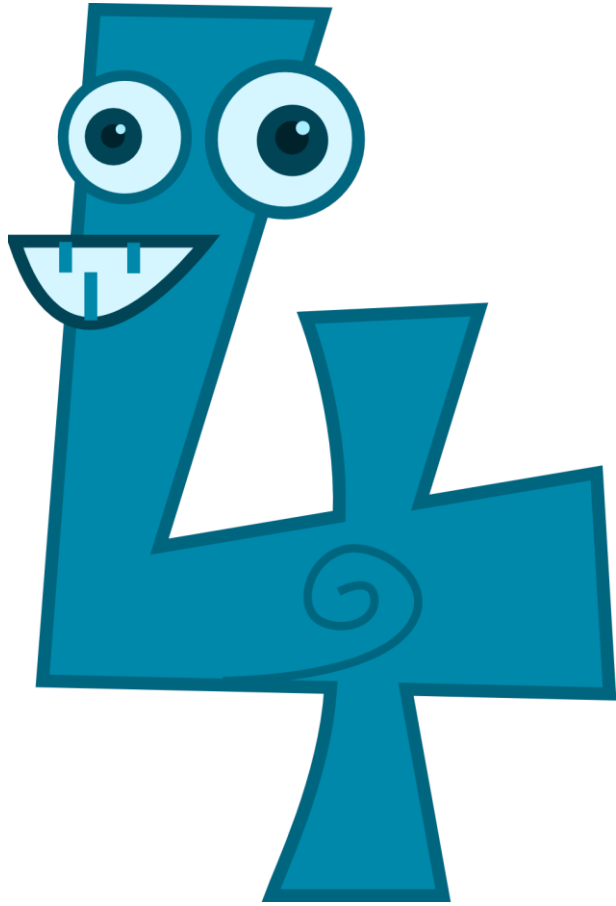


A game takes roughly 2 yrs in production. $\frac{3}{4}$ of that time is in testing.

Coding Phase

3

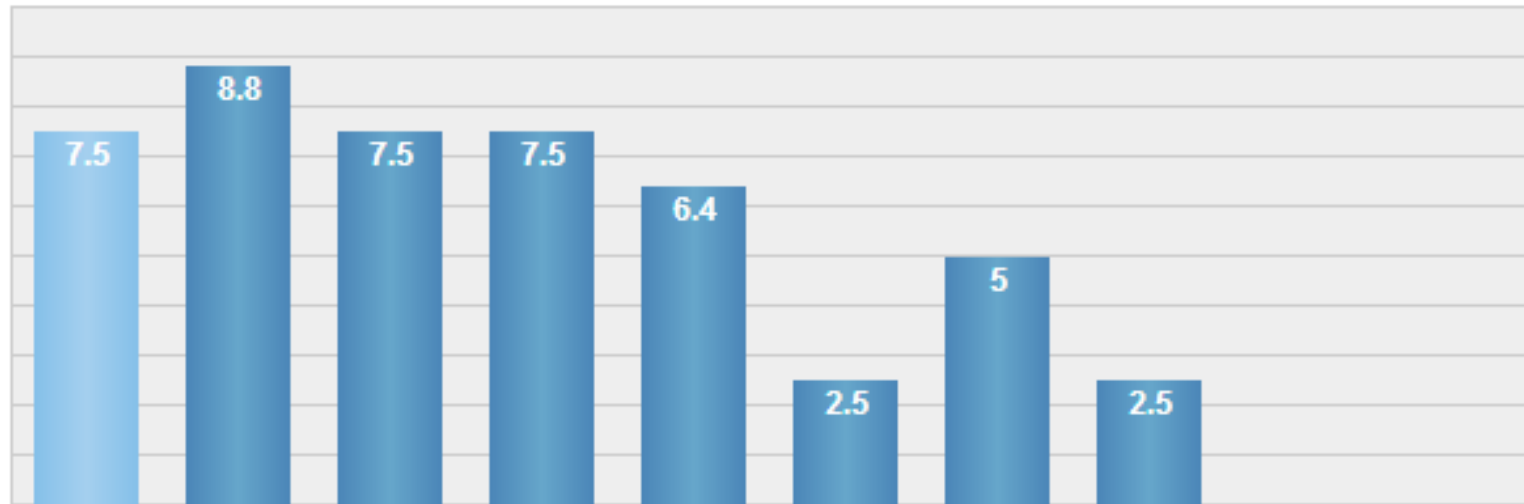
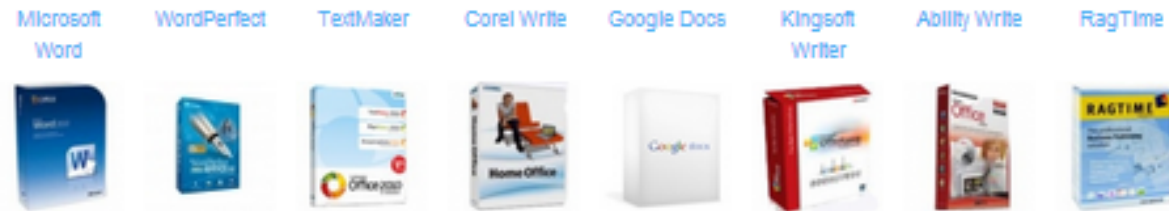
- *End result:* The game is coded and tested.
- Includes:
 - 1.First Playable (basic code)
 - 2.Add comments
 - 3.Write ifs, loops, methods
 - 4.Alpha test (internal testers)
 - 5.Code Freeze (stop adding new)
 - 6.Beta test (external testers)
 - 7.Gold Master (complete game)
- *Jobs?* Programmer, Lead Programmer, Tester



Evaluation
Maintenance

Usability 7.5/10

Compare ▾



This word processing software breaks away from the traditional drop-down menu navigation. Microsoft Word word processing software implements the use of tabs in what they call a "ribbon" instead. Each time you click on a tab, a menu opens that doesn't close until you click on another tab. This can be a useful tool to use during different stages of document creation. For example, while you are editing a document you can have the Reference tab open so all of the editing tools are available with one click.

This type of layout also makes it easy to find the tool you are looking for. Each tab displays tools using large fonts and icons. The whole program is very intuitive, which will make it easy for new users to learn.

On-line Reviews



[home](#) [about](#) [games](#) [merch](#) [account](#) [help](#)

Blog Posts

UPDATES

Yes, we're being bought by Microsoft

by [Owen](#) on September 15, 2014

Yes, the deal is real. Mojang is being bought by Microsoft.

It was reassuring to see how many of your opinions mirrored those of the Mojangstas when we heard the news. Change is scary, and this is a big change for all of us. It's going to be good though. Everything is going to be OK. <3

Please remember that the future of Minecraft and you – the community – are extremely important to everyone involved. If you take one thing away from this post, let it be that.

We can only share so much information right now, but we've decided that being as honest as possible is the best approach. We're still working a lot of this stuff out. Mega-deals are serious business.



Microsoft Office is US #1 selling software product with one copy sold every second

By Tom Warren, on 9th Jan 11 9:04 am with 1 Comment



Like 8 people like this. Sign Up to see what your friends like.



29



0



Submit

January 2011 is Office 2010's six month birthday and the software giant is celebrating that with some facts and figures.

Office 2010 now ranks as the fastest-selling consumer version of Office in history, with approximately one copy of Office 2010 sold worldwide every second [according to the software maker](#). Microsoft's Office suite is also the number one selling software product in U.S. retail channels for the eighth year in a row.

Office is currently used by more than 750 million users worldwide according to Microsoft. Office 2010 was the first release of the productivity suite to include both 32-bit and 64-bit versions. Microsoft packed both versions onto one DVD across seven different flavours. Office 2010 also includes a free version with Microsoft

have some juicy info?
send us a tip!



latest windows live news



[Infographic: Who uses Microsoft's cloud services](#)

29th Nov 11 8:30 pm



[Microsoft beefs up its SkyDrive cloud storage with file management and HTML5 upload](#)

29th Nov 11 3:58 pm



[Facebook testing Windows 7 Messenger desktop client](#)

21st Nov 11 10:01 pm

Sales
Figures

Office support

What do you need help with?

Word



Search Word support



Get started →

Download
Install
Activate

Get help now →



Get free training →

Office 365 help

[Office and Office 365 FAQ](#)
[Install Office 365 Home Premium](#)

Downloads and updates

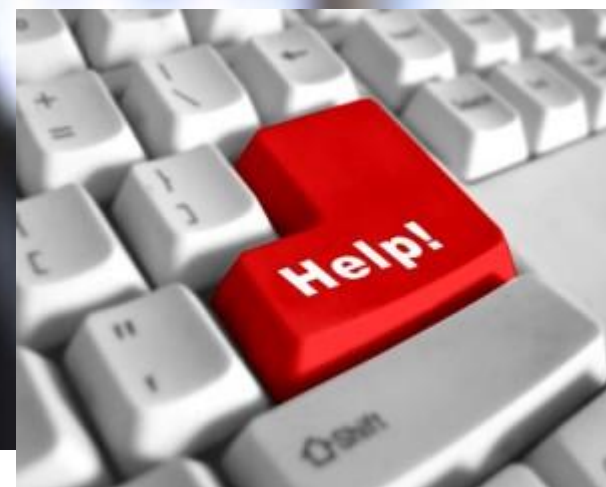
[Download and backup locations](#)
[Keep your computer up to date](#)

Account help

[Access the My Account page](#)
[Cancel an Office subscription](#)

Tech support

[Product key troubleshooter](#)
[Activate Office 2013 programs](#)





Update your computer

Software isn't perfect, and that's why most software companies give you updates.

The best way to get yours is to set your computer to install them automatically, and you can do that in Windows or Internet Explorer. You can also [get updates manually](#) at any time.

Here's how you set automatic updates in Windows 7. Keep going if you need to update [Windows 8](#), [Windows Vista](#), [Windows XP](#), or [Internet Explorer 9](#).

1. Close all open programs.
2. Click Start > Control Panel.
3. Click System and Security (which you see when you view Control Panel by Category).

Adjust your computer's settings



System and Security

Review your computer's status
Back up your computer
Find and fix problems

4. Click Windows Update.



Windows Update

Turn automatic updating on or off | [Check for updates](#) |
[View installed updates](#)

Applies to:

Access 2013, Excel 2013, InfoPath 2013, OneNote 2013, Outlook 2013, PowerPoint 2013, Project Professional 2013, Project Standard 2013, Publisher 2013, Visio 2013, Visio Professional 2013, Word 2013, Access 2010, Excel 2010, InfoPath 2010, OneNote 2010, Outlook 2010, PowerPoint 2010, Project 2010, Publisher 2010, Visio 2010, Word 2010



How the customer explained it



How the Project Leader understood it



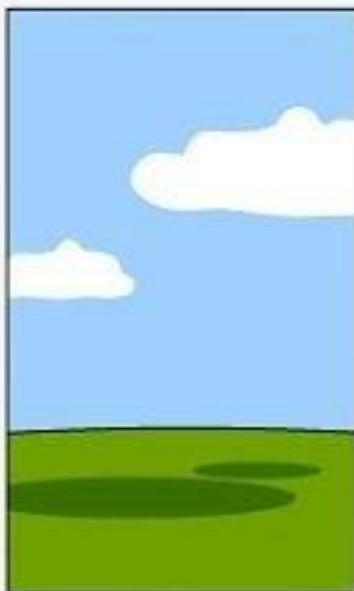
How the System Analyst designed it



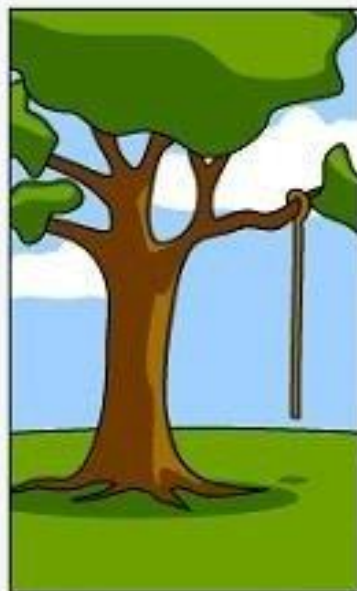
How the Programmer wrote it



How the Business Consultant described it



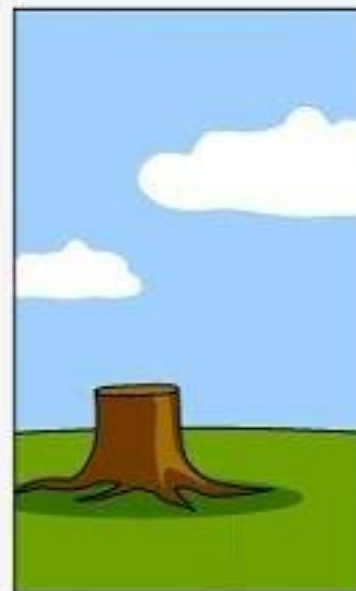
How the project was documented



What operations installed



How the customer was billed



How it was supported



What the customer really needed

Reflection Phase

4

- *End result:* Game has been marketed and sold.
- Includes:
 1. Marketing
 2. Sales
 3. Reflection
 4. Plan sequel
- *Jobs?* Sales Analyst, Advertiser

PDLC Maintenance Phase

5

1. Occurs after the software is working and is released.
2. Programmers need to add features, fix bugs and patch security holes.
3. Users need to be trained, and assisted when they run into troubles
4. Costs: on a custom system, it is 500% the cost of the original software Much more expensive than buying the software.

Jobs: Help Desk, Support and Training, Field Service Technician



Ushahidi



Analysis

Kenya, civil unrest following elections in 2007-2008





Ory Okolloh –
blogger,
activist,
writer....





Design

ushahidi.com
REPORT ACTS OF VIOLENCE IN KENYA

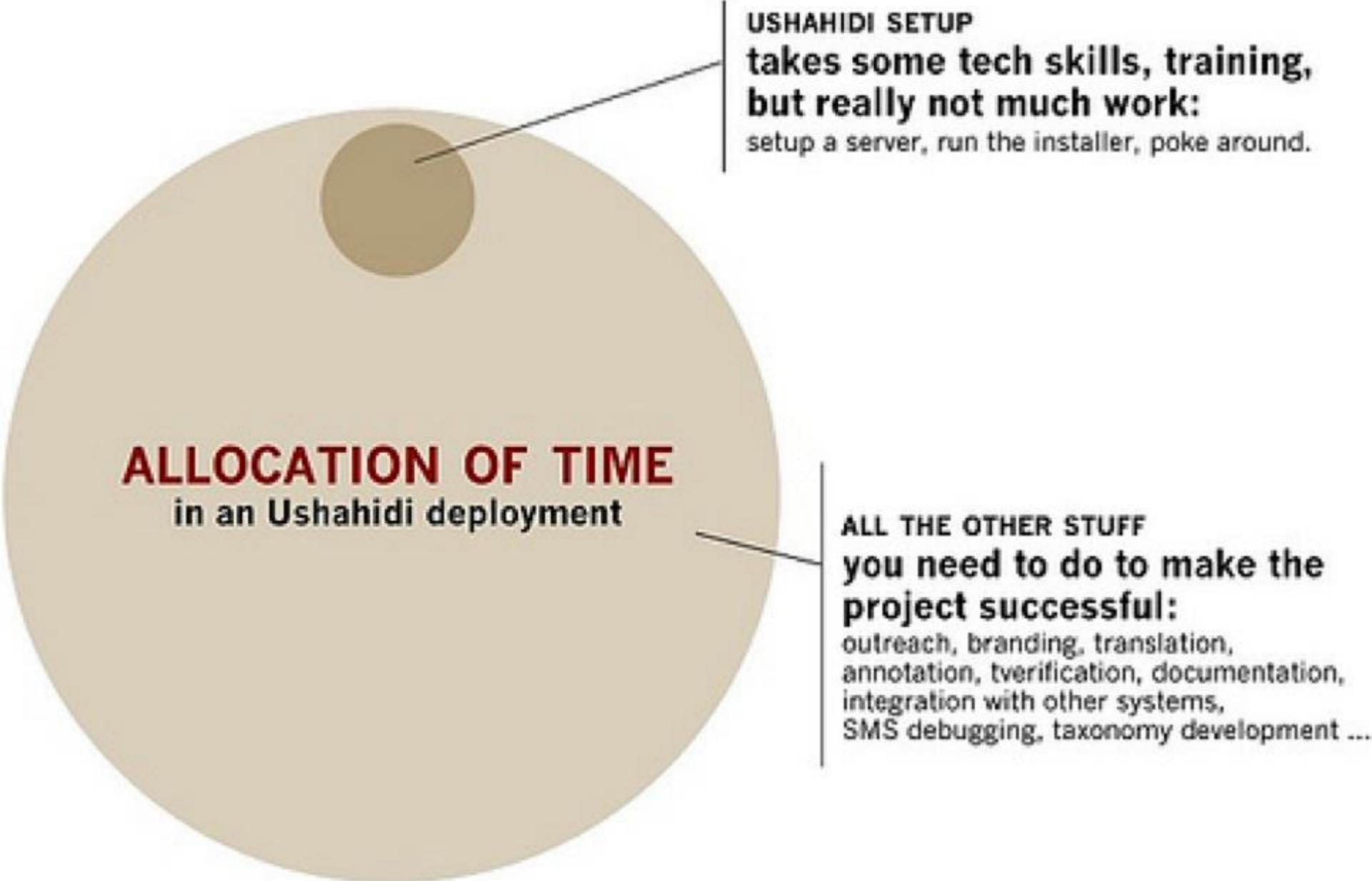




3

Code





ALLOCATION OF TIME
in an Ushahidi deployment

USHAHIDI SETUP

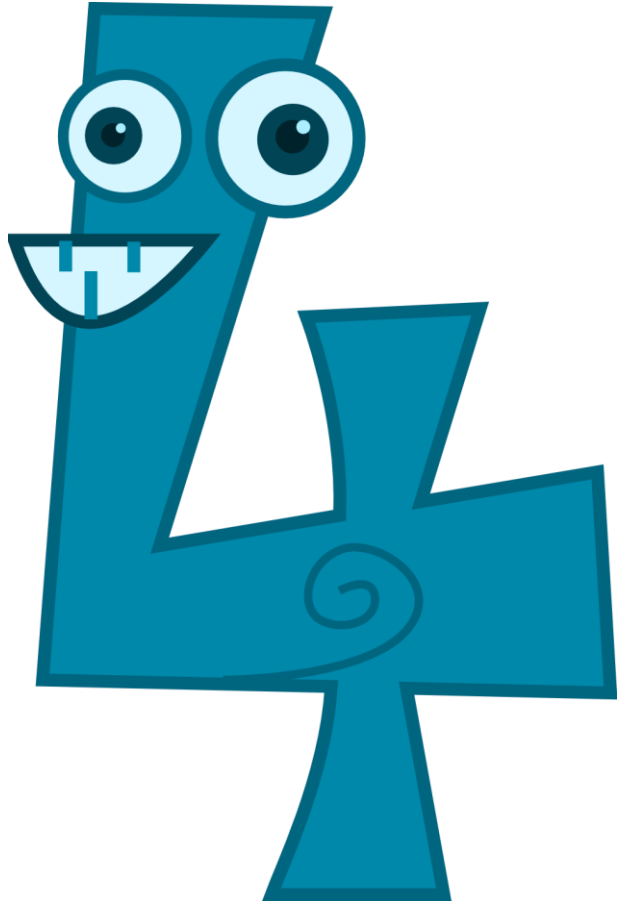
**takes some tech skills, training,
but really not much work:**

setup a server, run the installer, poke around.

ALL THE OTHER STUFF

**you need to do to make the
project successful:**

outreach, branding, translation,
annotation, verification, documentation,
integration with other systems,
SMS debugging, taxonomy development ...



Evaluation
Maintenance

Text your needs to

4636
in Haiti



If you are in Haiti, report emergency information and location by texting



Send reports via:
mobile phone :: email :: web

SEND ALERT



at The Fletcher School in Boston
tracking any available sources of
information coming from the
earthquake hit Haiti and submitting
them to Ushahidi.

Haiti

The 2010 Earthquake in Haiti

Search Reports Here:



DOWNLOAD REPORTS (2275)



REPORTS RSS



Haitian Diaspora Community:
We need your help! Help Us Help Haiti »



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TODO

VIEWS +

CLUSTERS

+ CATEGORY FILTER



ALL CATEGORIES



1. URGENCES | EMERGENCY



2. MENACES | THREATS



3. URGENCES LOGISTIQUES | VITAL
LINES



4. SECOURS | RESPONSE



5. AUTRE | OTHER





Free and open source software
for information collection, visualization and mapping.



Oil Spill Crisis Map

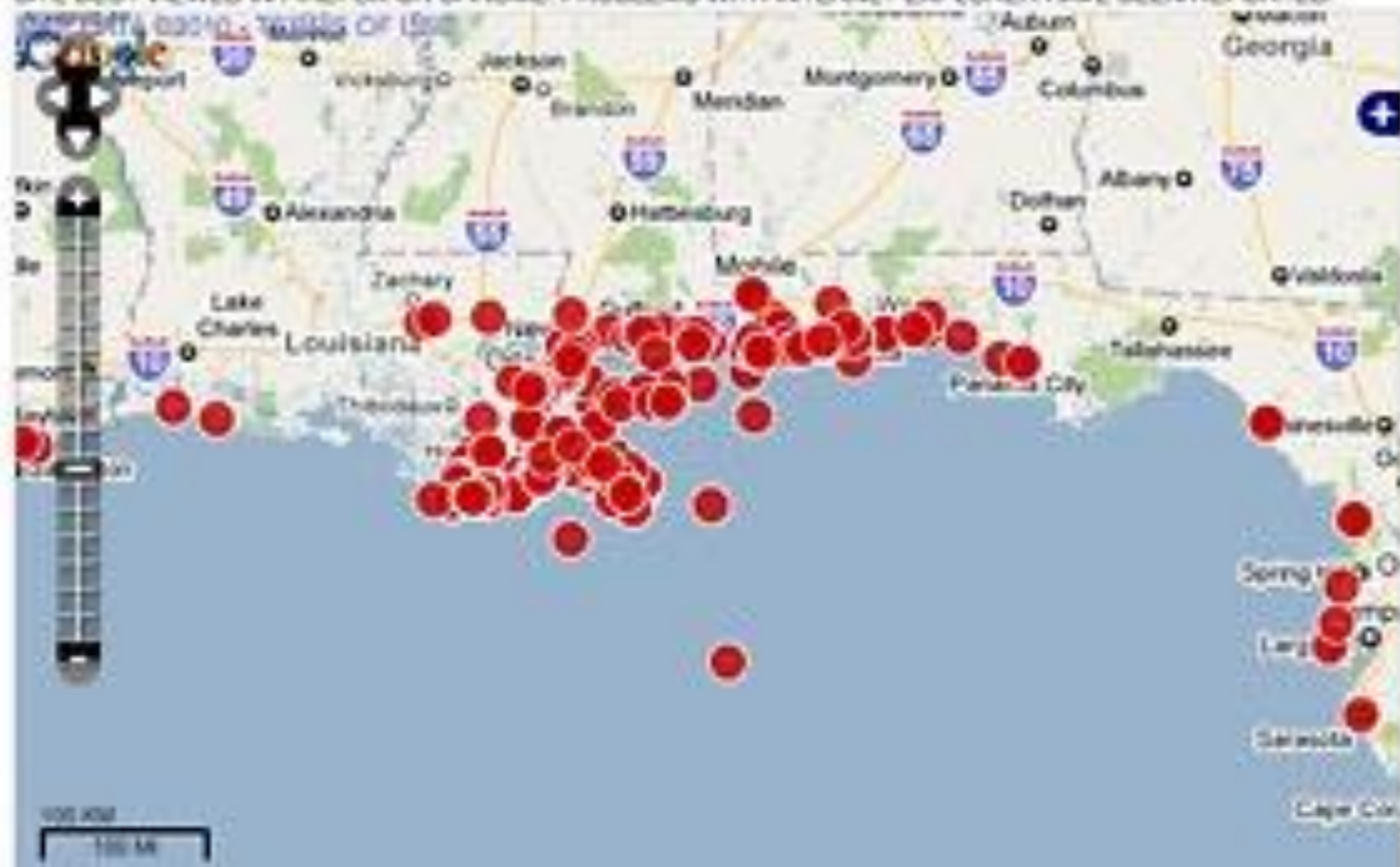


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FOR INTERNATIONAL DEVELOPMENT

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SITE BEST VIEWED IN FIREFOX OR CHROME. PROBLEMS WITH INTERNET EXPLORER HAVE BEEN REPORTED.



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Health Complaint?

If you are experiencing health effects related to the oil spill, contact the Louisiana Poison Center: 1-800-222-1222. The Poison Center is staffed 24-hours a day and can provide medical management advice.

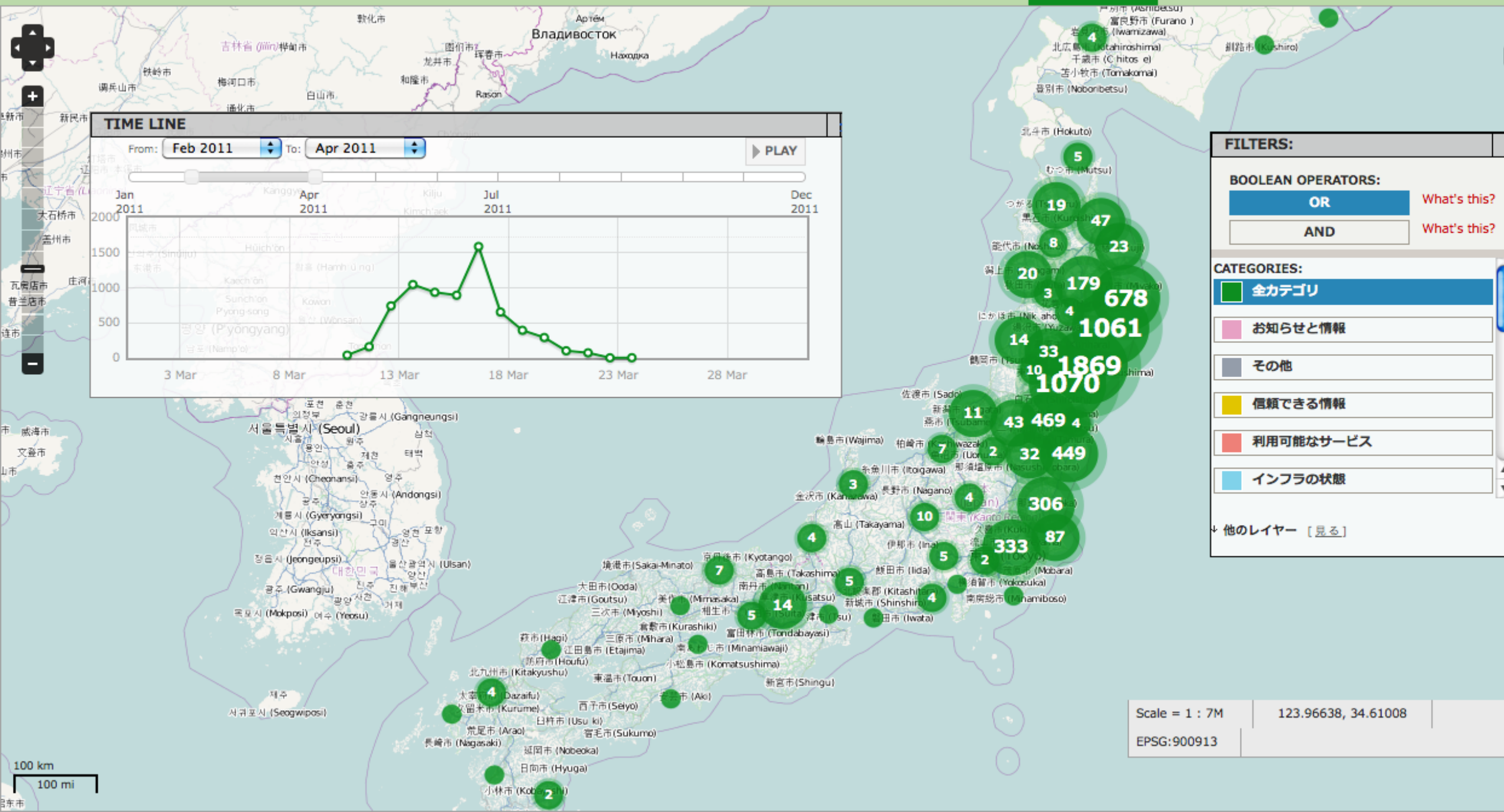
To report an odor to the EPA, please call 1-866-448-6816

[+ CATEGORY FILTER](#)

☒ **ALL CATEGORIES**

☐ **CHEMICAL ACCIDENTS**

☐ **BP OIL SPILL**



THE CATHEDRAL

AND THE

BAZAAR

ERIC S. RAYMOND

