

meeting the **mibuso** community

mibuso.conference



Closing Keynote

Delivering Software to a Global Audience

Chad Z. Hower aka Kudzu

<http://www.KudzuWorld.com>

<http://www.woo-hoo.net/>







...for me
field..







Kudzu Ghost



meeting the midsize community

midsize conference

It is actually a telephone pole....

nel 1911
de



Roadside



Kudzu Tunnel



Trees



meeting the mibuso community

mibuso.conference

Kudzu Nicknames

- Mile-a-minute vine
- Foot-a-night vine
- The vine that ate the South
- Once even called:
“The vegetable form of cancer”

Kudzu Control

- Some herbicides make it grow better
- Others have little or no effect
- Takes 10+ years to control a Kudzu patch – even with chemicals
- Effective herbicides often destroy the soil

Effective Kudzu Control

meeting the **milbus** community
milbus conference
Napalm is the only effective herbicide for Kudzu....

Вселенная Кудзу

«Программирование - искусство, воюющее со своими творцами»



[Who is Kudzu?](#)

[What is Kudzu?](#)

[Kudzu's Blogs](#)

[Contact Kudzu](#)

[Kudzu World](#)

[English](#) - [Română](#) - [Русский](#) - [عربي](#)

Kudzu World

Welcome to my strange corner of the web!

<http://www.KudzuWorld.com>

Kudzu World is my public web page which contains articles, reviews, and other musings of technical, kudzu, and other content. Much of the content is specific to software development, however for you non software developers do not let that scare you away. There is a lot of other content as well. To find what you are looking for, you can use the menus on the right throughout the site.

[Kudzu?](#)

Did you know?

The kudzu plant can grow 7 feet (over 2 meters) per week? Find out more about the [amazing kudzu plant](#).

Technical

[Tech Blog](#)

.NET, software, and computer related items.

[.NET MicroFramework](#)

Independent MicroFramework portal with news, development kits.

Gone for the weekend?



Here is a house in winter.



The same house in summer. Those are not the tree's own leaves....



Chad Z. Hower aka Kudzu - Speaker Extraordinaire

[Home](#)[About / Bio](#)[Abstracts](#)[Blogs](#)[Contact](#)[Event Planning](#)[Upcoming Events](#)

Cities I have spoken in:

hem -- Barcelona -- Beirut -- Boston -- Brussels -- Buenos Aires -- Cairo --

See what attendees
and organizers say:

Woo Hoo!!!

News!

<http://www.Woo-Hoo.net>

The demand for Woo Hoo speaking and training services has grown beyond the limits of my physical ability to be in only one place at a given time of a single person. Because of this, Woo Hoo is expanding into a team of speakers and trainers. Over the next few weeks I will be reorganizing the site and introducing our new team. Thanks for your support!

About Woo Hoo

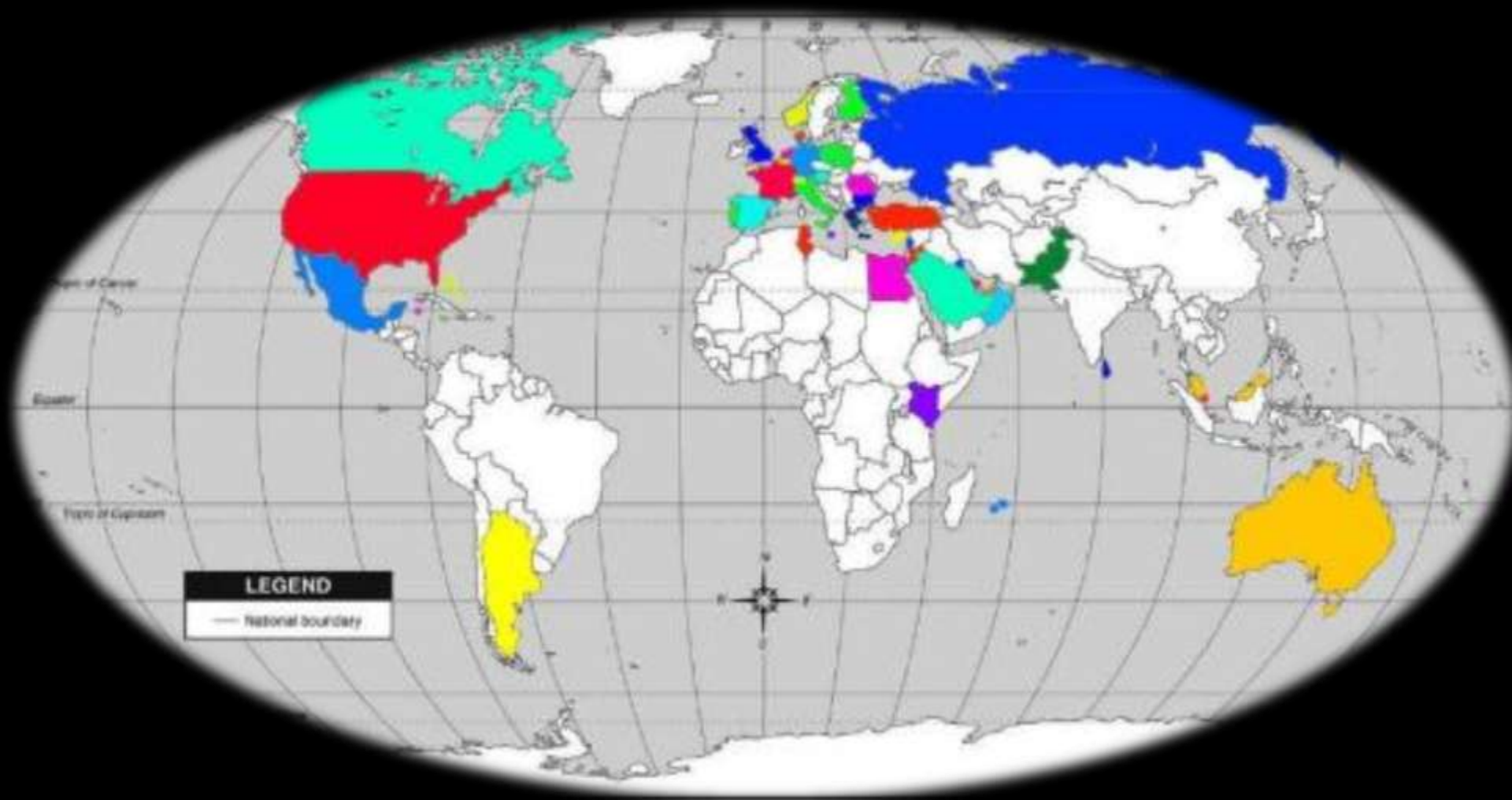
Are you looking for a technical presenter who can also excite and engage an audience? Why settle for boring technical presentations or pay someone to read slides? Audiences learn better when they are engaged and interested!

I am a professional speaker on [technical topics](#) with my main focus being



Microsoft Corporation 1978





Application

MyApp.exe
MyDll.dll

Satellite Assemblies



MyApp.resources.dll

ru-ru



MyApp.resources.dll

fr-fr

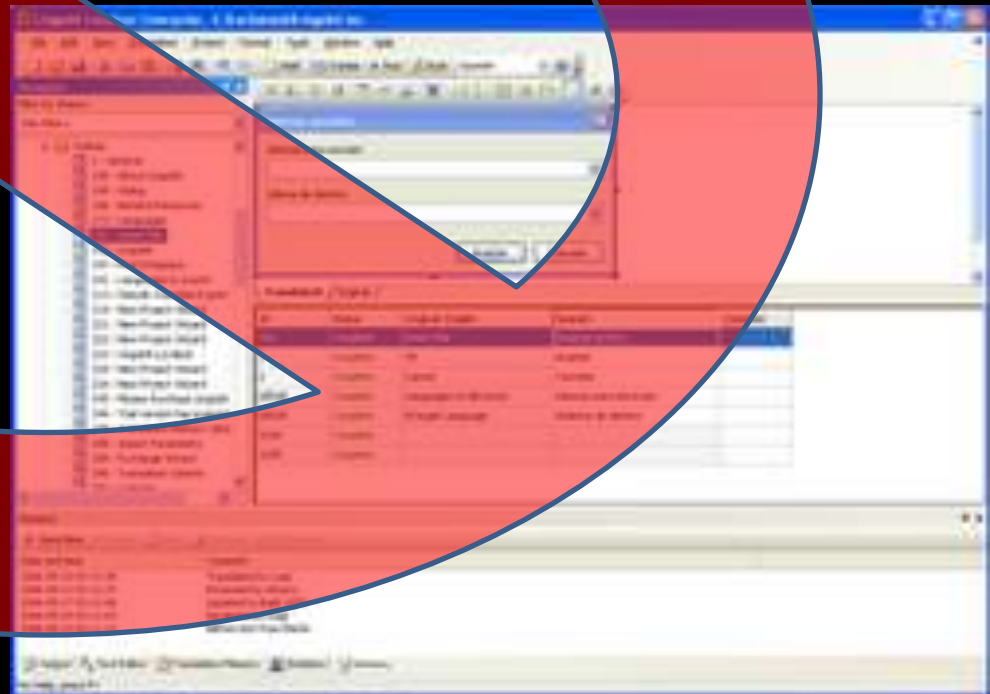


MyApp.resources.dll

en-us

MyDll.resources.dll

Load Resources







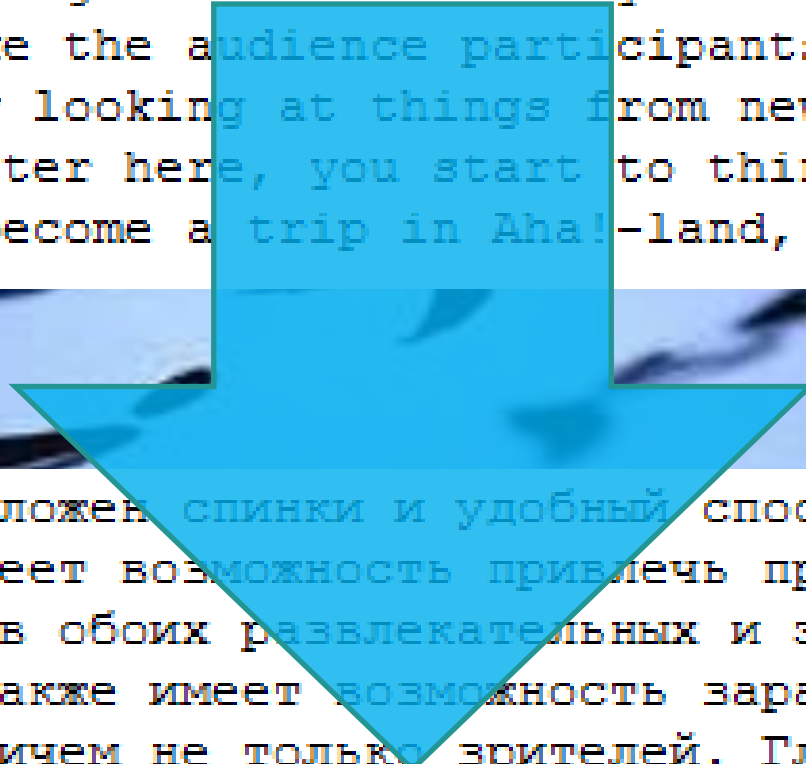
Localization



Localisation

What is Localization?

Kudzu has a laid-back and comfortable way of presenting topics, he has the ability to lure knowledge into us, in a both entertaining and efficient way. He also has the ability to make the audience participants, not only spectators. By looking at things from new viewpoints - Kudzu is a master here, you start to think in a new way. His sessions become a trip in Aha!-land, an exciting trip.



Kudzu имеет заложен спинки и удобный способ представления темы, то он имеет возможность привлечь профессиональных знаний в нас, в обоих развлекательных и эффективным способом. Он также имеет возможность зарабатывать аудитории участников, причем не только зрителей. Глядя на вещи с новой точки зрения - это Kudzu мастер здесь, вы начинаете думать по-новому. Его сессий станет поездка в Ага! Земель, захватывающие путешествия.

Translating the UI into another:

- Language
- *and culture*

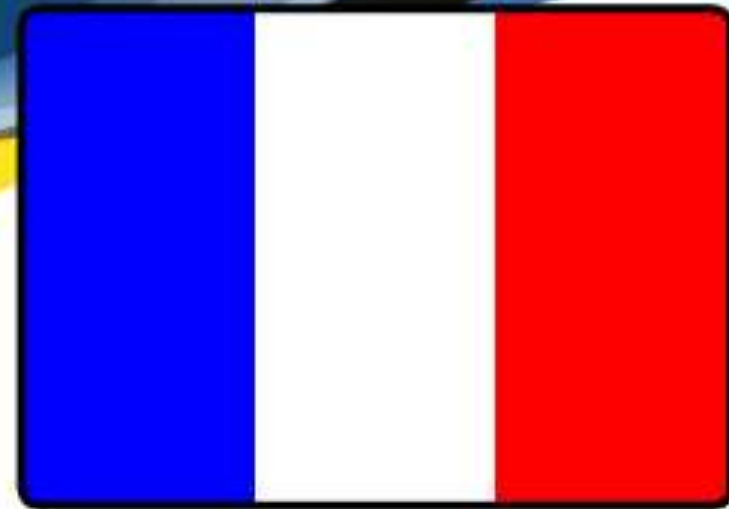


*Localization is the
process of adapting
products and services
to the needs of
global users.*

Lost in Translation



- English → French
- What could go wrong?





Language Tools

Search across languages

Type a search phrase in your own language to easily find pages in another language. V

Search for:

My language:

English



Search pages written in:

Spanish

Translate and Search

Tip: Use [advanced search](#) to restrict your search by language and country without trans

Translate text

Today we will talk about software and how it makes users
in different countries feel. What is their experience?

English



English



Translate

We are not yet able to translate from English into English.

Today we will talk about software and how it
different countries feel. What is their exp

Chad Z. Hower aka Kudzu - Speaker Extraordinaire

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Cities I have spoken in:

-- Brussels -- Budapest -- Buenos Aires -- Cairo -- Cambridge (UK) -- Colom

See what attendees and organizers say:

.... The good news is that he'll be an independent speaker and if you run a conference or a user group anywhere in EMEA, you should really consider have him come over and talk."

*Clemens Vasters
WCF Program Manager
Microsoft*

"Now, Very, very professional."

Woo Hoo!!!

Update for 2008

Over the previous half year I have posted various news items regarding the future of Woo Hoo. The demand for Woo Hoo speaking has become overwhelming. As much as I love to speak, I cannot be everywhere and I need to deal with some recent family issues as well. After much consideration and discussion with various event owners I think I have finally come to a solution. [More Info](#)

Translate text

Kudzu has a laid-back and comfortable way of presenting topics, he has the ability to lure knowledge into us, in a both entertaining and efficient way. He also has the ability to make the audience participants, not only spectators. By looking at things from new viewpoints - Kudzu is a master here, you start to think in a new way. His sessions become a trip in Aha!-land, an exciting trip.

English



Russian



Translate

Translation: English » Russian

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[+ Suggest a better translation](#)

Translate Text

Original text:

Kudzu имеет заложен спинки и удобный способ представления темы, то он имеет возможность привлечь профессиональных знаний в нас, в обоих развлекательных и эффективным способом. Он также имеет возможность зарабатывать аудитории участников, причем не только зрителей. Глядя на вещи с новой точки зрения - это Kudzu мастер здесь, вы начинаете думать по-новому. Его сессий

Russian ▼



English ▼

Translate

Translation: Russian » English

Kudzu is laid back and comfortable way of presenting the topic, he is able to attract professional knowledge in us, in both entertaining and effective way. He also has the ability to make the audience participants, not just spectators. Looking at things from a new perspective - Kudzu is master here, you start to think in new ways. His sessions will tour in Aha! Soils, exciting journey.



Yeo's

楊協成

Pure Sesame

香麻油

一百巴仙純正

Le Petrole Pur De

375 mL

Yeo's

楊協成

Pure Sesame Oil

香麻油

一百巴仙純正

Le Petrole Pur De Sesame

375 mL

Yeo's

楊協成

Pure Sesame Oil

香麻油

一百巴仙純正

Le Petrole Pur De Sesame

375 mL

餐厅 translate server error

餐厅

THE TEXT TRANSLATION

Use a native speaker
(Target language)



PLEASE, MIND YOUR STEP.

When crossing 『臥竜橋』,
be careful of the footing sufficiently.
Understand beforehand because the
responsibility can not be assumed
about the accident in case and so on.

비디오

선

請勿放垃圾

쓰레기를 절대 버리지 마십시오

DO NOT LITTLE

www.english.com



Images



office developer of the year

Photographs

FREE 60-DAY TRIAL

Microsoft
Expression Studio



لمطوري البرمجيات

للمتخصصين في تقنية المعلومات

TRANSLATION EXCEPTIONS

Brands



Microsoft®

*Ваши способности. Наше вдохновение.**

ابحث

العربية
CNN

الصفحة الرئيسية الشرق الأوسط العالم اقتصاد صحة وتكنولوجيا منوعات رياضة ملفات وتقارير فيديو

ملفات وتقارير « الطريق إلى البيت الأبيض » يا نوراما الملف الإيراني * المزيد

Technical Terms



веб-интерфейсов

УСТАНОВИТЬ PLUG-IN →

عائلات المنتجات

Windows

Office

Windows Server System

أدوات التطوير

حلول للأعمال

Windows Mobile

تسالي

أجهزة

خدمات MSN Arabia

التطوير والدعم للغة العربية

الموارد

أحداث

...

Language Selectors

Microsoft

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Microsoft® Silverlight™

Посмотрите на интерактивные возможности
веб-интерфейсов нового поколения

УСТАНОВИТЬ PLUG-IN →

Разделы сайта:

Microsoft.ru Home
Windows
Office
Все продукты
Файлы и программы
Партнерам и клиентам
Как приобрести
Безопасность и обновления
Справка и поддержка
О Microsoft Россия

Новость: Конференция «Платформа 2009» состоится 4-5 декабря

Главное ▶

Новые продукты

Полная версия ПК



Service Pack 1 для Windows Vista

Пакет обновления SP1 для Windows Vista: сделайте ваш компьютер еще безопаснее,

Популярные загрузки

- Windows Vista SP1
- Office 2007 SP1
- Internet Explorer 7

Тестируйте
IP-Сети
БЕСПЛАТНО

Microsoft
PALLAN



Microsoft

Ваши способности. Наше вдохновение.*



Microsoft® Silverlight™

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IP-Сети
БЕСПЛАТНО

Microsoft
PALLAN



MAJOR DECISIONS

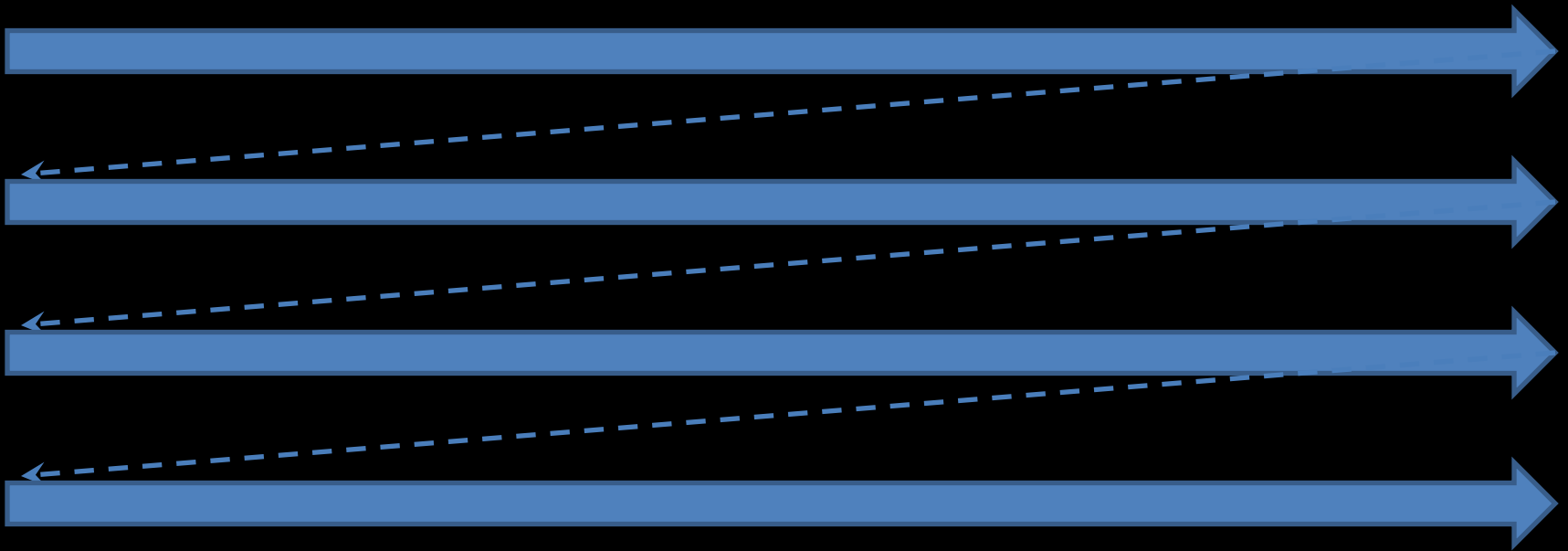


Which
way?

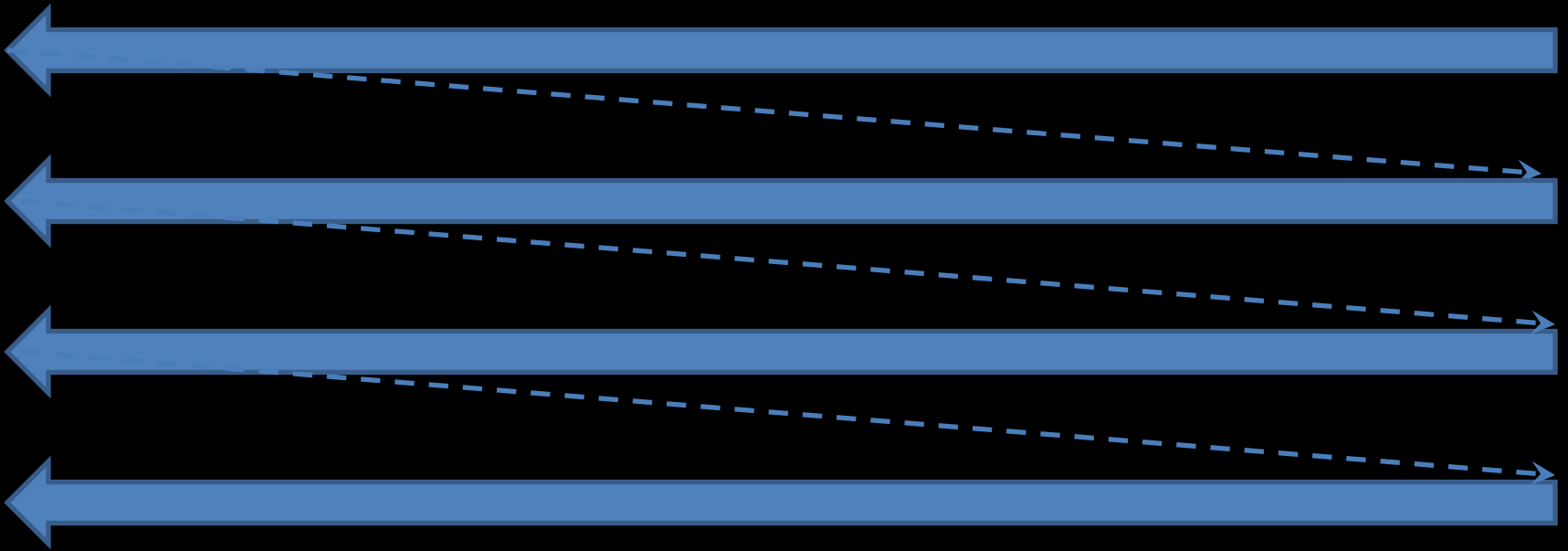




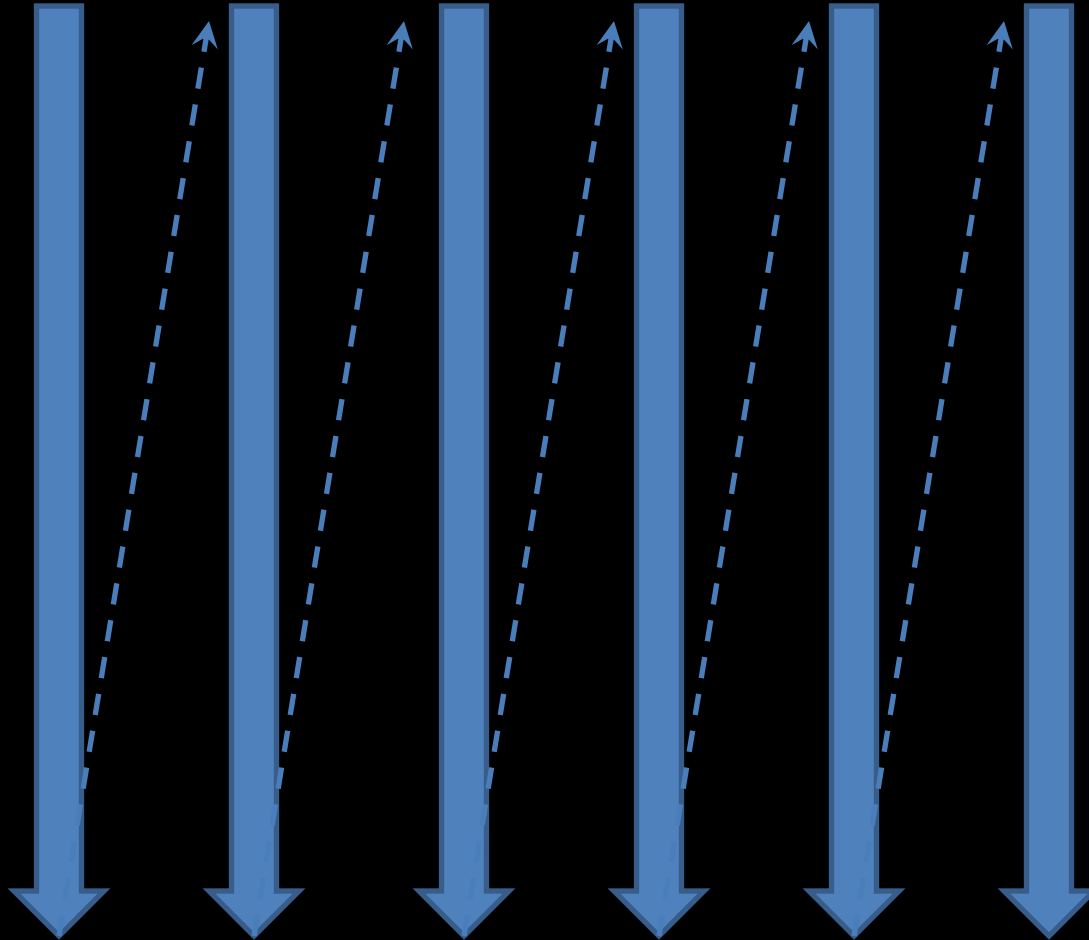
Left to Right (LTR)



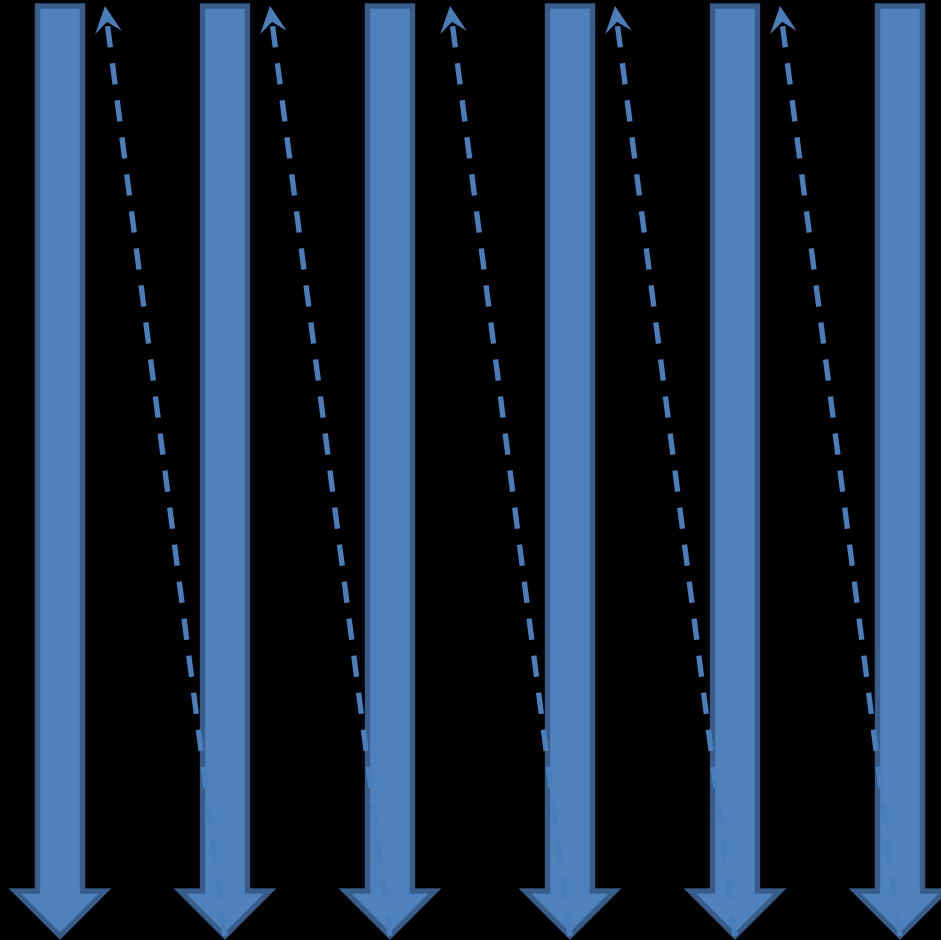
Right to Left (RTL)



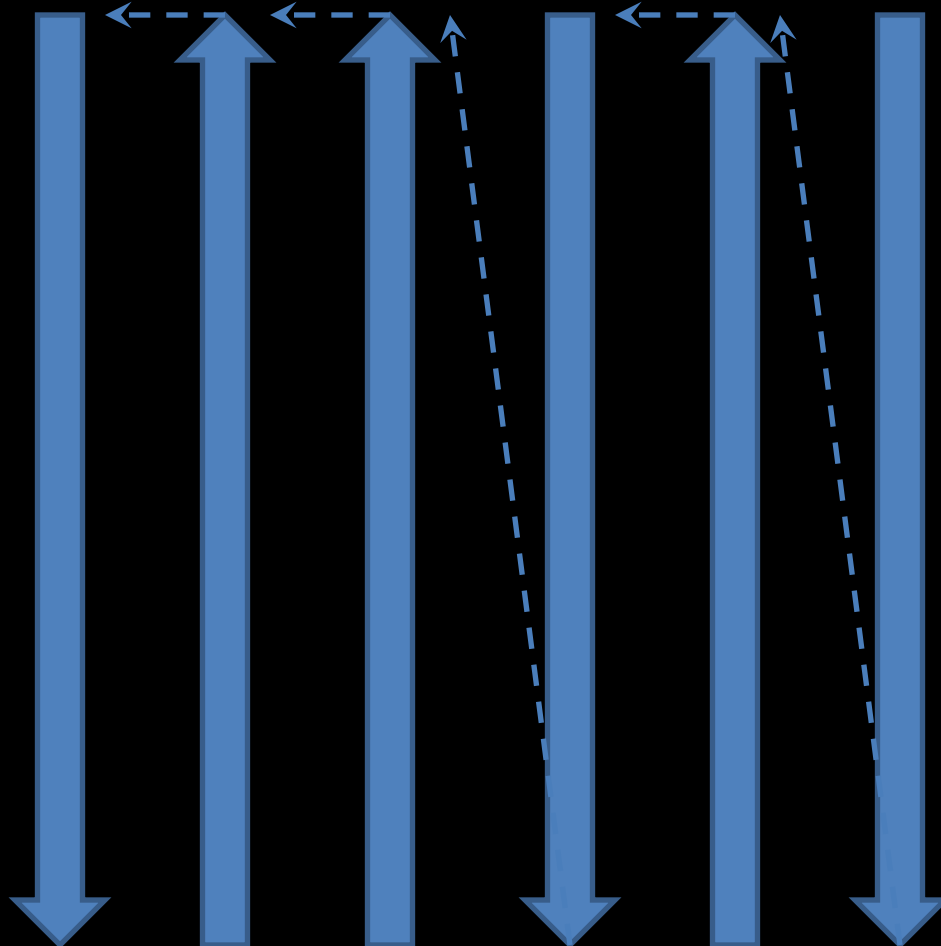
Top to Bottom (TTB) (Assumed)



Top to Bottom (TTB) (Actual)



AWW



Both ways at once!

LTR + RTL

هل تعلم؟

تنمو نبتة ال kudzu أكثر
من سبعة أقدام (أي أكثر
من مترين) في الأسبوع
الواحد. استكشف المزيد
عن هذه النبتة الرائعة.

Both ways at once!

LTR + RTL

!Welcome to my strange corner of the web

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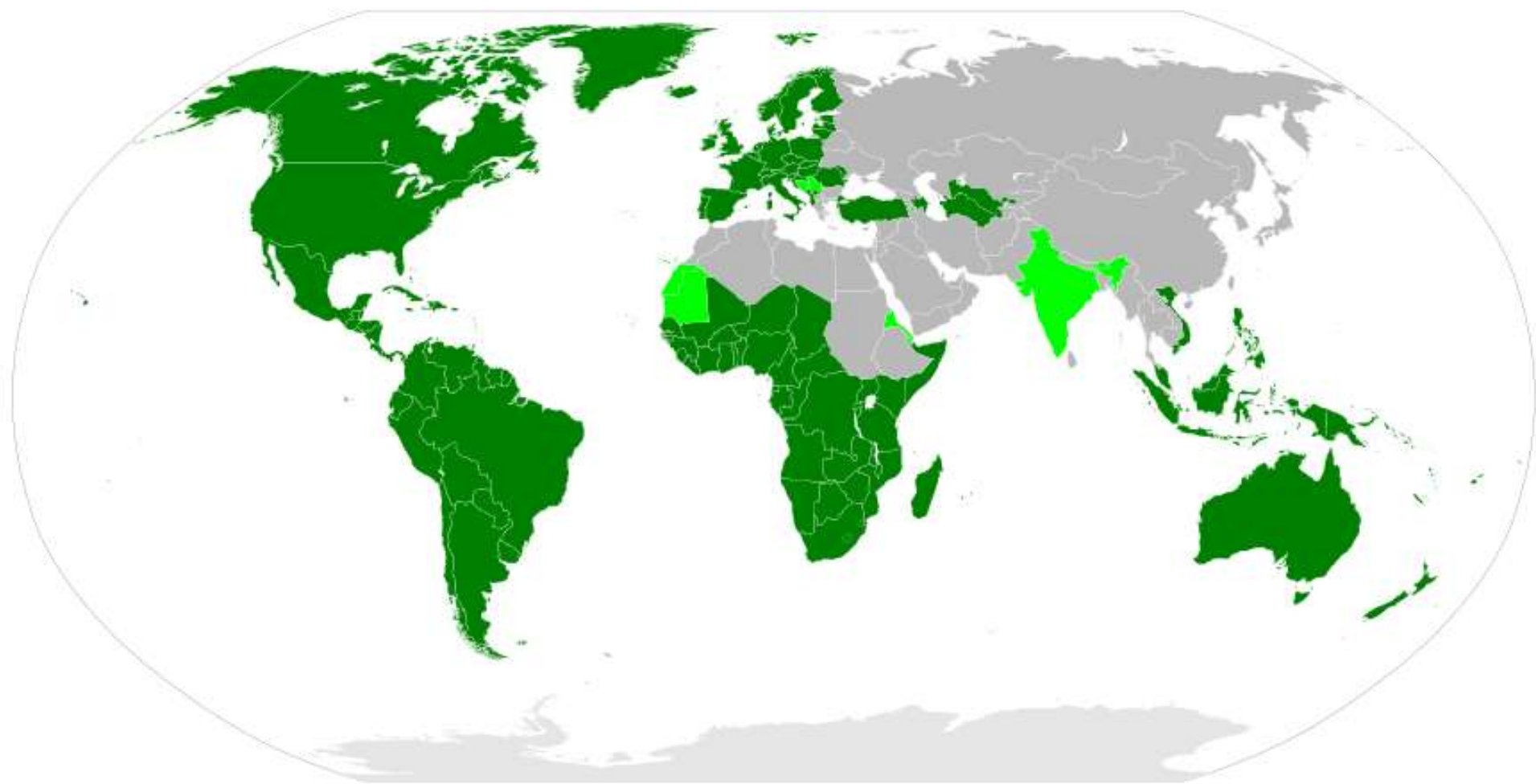
"Chad Z. Hower a.k.a. "Kudzu
"البرمجة: فن وتمرّد"

Both ways at once!

LTR + RTL

جميع المواضيع في هذا القسم تتعلق بالبرمجة تحت بيئة .NET وما الى ذلك، قد تجد بعض المشاركات المكرره في صفحات اليوميه التابعة MSDN وكان أعتقد أنك ستجد هنا عدد أكبر من المشاركات.

LATIN SETS





Recycle Bin



Internet
Internet Explorer



E-mail
Windows Mail



Welcome Center



Windows Media Center



Windows Ultimate Extras



Windows Media Player



Windows Photo Gallery



Windows Live Messenger Download



Windows DVD Maker



Windows Meeting Space



Computer Management

▶ **All Programs**



User

Documents

Pictures

Music

Games

Recent Items ▶

Computer

Network

Connect To

Control Panel

Default Programs

Help and Support





Kosz



Internet

Internet Explorer



E-mail

Poczta systemu Windows



System Windows — Zapraszamy!



Windows Media Center



Dodatki systemu Windows Ultimate



Windows Media Player



Galeria fotografii systemu Windows



Windows Live Messenger — pobieranie



Windows DVD Maker



Obszar spotkań w systemie Windows



Zarządzanie komputerem



Wszystkie programy



User

Dokumenty

Obrazy

Muzyka

Gry

Bieżące elementy

Komputer

Sieć

Połącz z

Panel sterowania

Programy domyślne

Pomoc i obsługa techniczna



Rozpocznij wyszukiwanie



EN



4:40 PM

Computer

File Edit View Tools Help

Organize Views System properties Uninstall or change a program Map network drive Open Control Panel

Favorite Links

- Documents
- Pictures
- Music
- More >>

Folders

- Desktop
- User
- Public
- Computer
- Floppy Disk Drive
- Local Disk (C:)
- CD Drive (D:)
- Swap (Y:)
- Network
- Control Panel
- Recycle Bin

Name	Type	Total Size	Free Space
Hard Disk Drives (2)			
Local Disk (C:)		65.3 GB free of 79.9 GB	
Swap (Y:)		1.45 GB free of 1.99 GB	
Devices with Removable Storage (2)			
Floppy Disk Drive (A:)			
CD Drive (D:)			

VISTABASEVM Workgroup: WORKGROUP

Processor: Intel(R) Core(TM)2 Quad CPU Q6600 @ 2.40GHz

Memory: 512 MB

Computer

4:25 PM

Computer window showing system information and storage details.

Address bar: Komputer

Search bar: Wyszukaj

Menu bar: Plik, Edycja, Widok, Narzędzia, Pomoc

Toolbar: Organizuj, Widoki, Właściwości systemu, Odinstaluj lub zmień program, Mapuj dysk sieciowy, Otwórz Panel sterowania

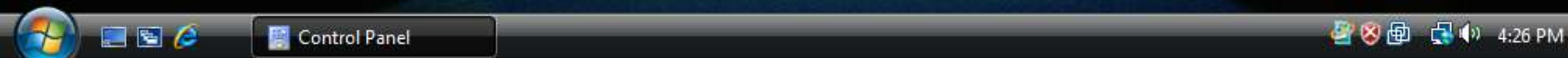
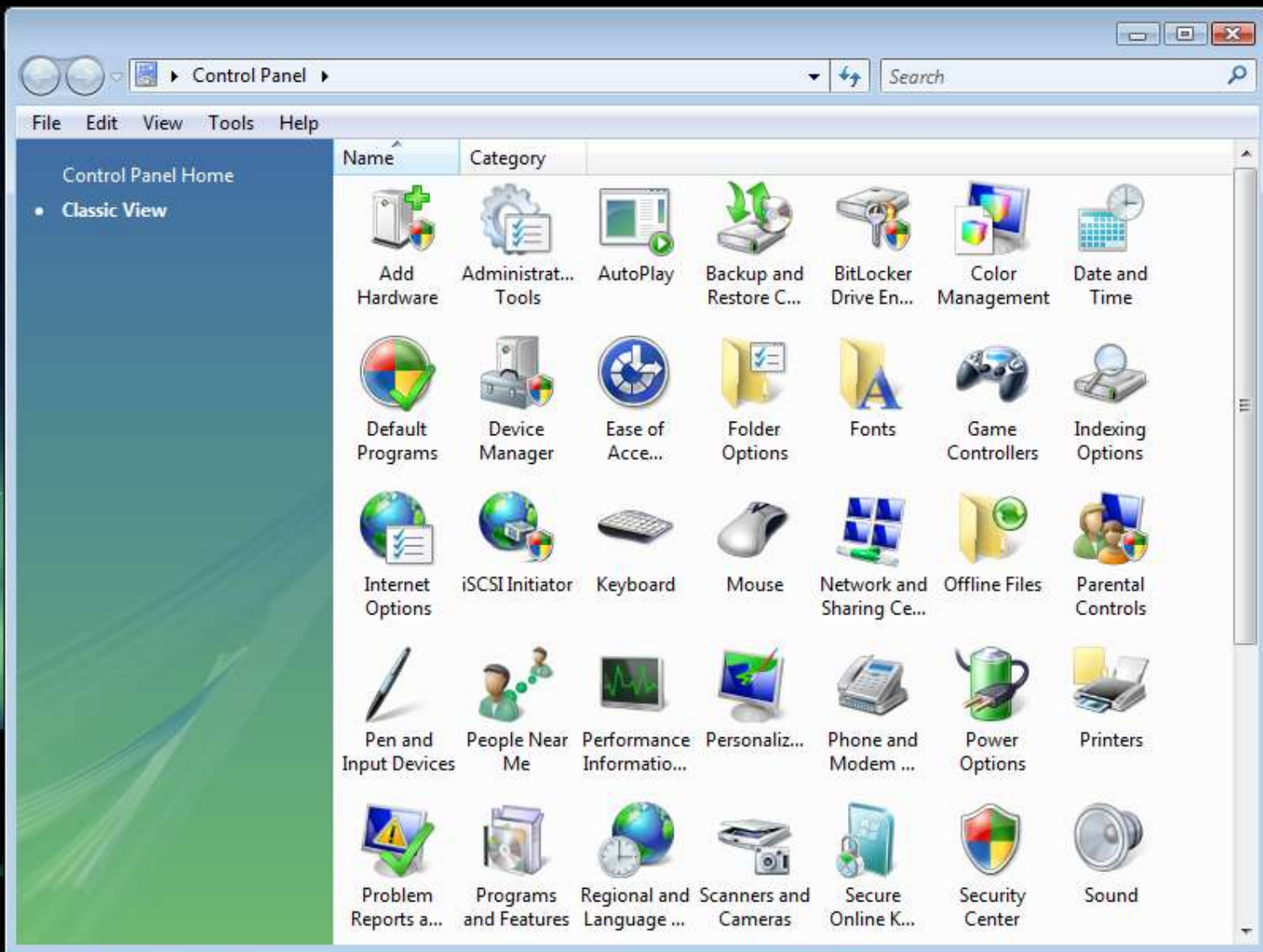
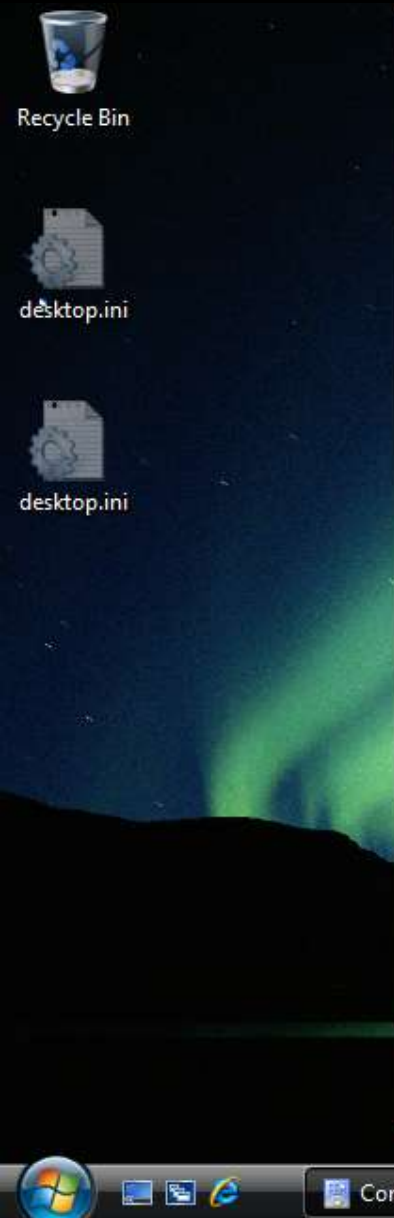
Left sidebar: Ulubione łącza (Dokumenty, Obrazy, Muzyka, Więcej >>), Foldery (Pulpit, User, Publiczny, Komputer, Stacja dyskietek (A:), Dysk lokalny (C:), Stacja dysków CD, Swap (Y:), Sieć, Panel sterowania, Kosz)

Nazwa	Typ	Całkowity rozmiar	Wolne miejsce
Dyski twarde (2)			
Dysk lokalny (C:)		65.3 GB free of 79.9 GB	
Swap (Y:)		1.45 GB free of 1.99 GB	
Urządzenia z wymiennymi nośnikami pamięci (2)			
Stacja dyskietek (A:)			
Stacja dysków CD (D:)			

System information and taskbar.

System information: VISTABASEVM Workgroup: WORKGROUP
Processor: Intel(R) Core(TM)2 Quad CPU Q6600 @ 2.40GHz
Memory: 512 MB

Taskbar: Komputer, EN, 4:40 PM





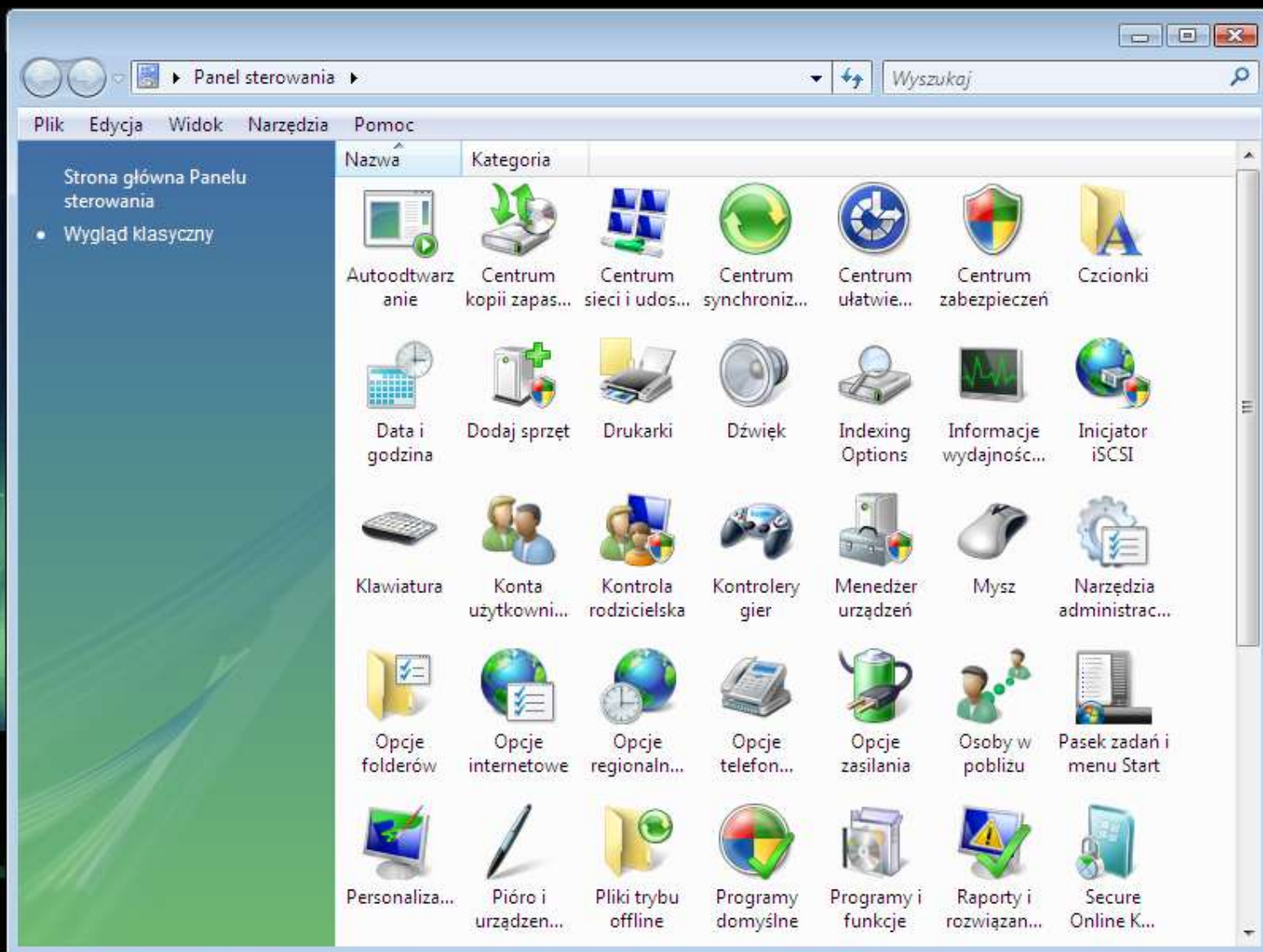
Kosz



desktop.ini



desktop.ini



Panel sterowania

EN



4:41 PM



Recycle Bin



desktop.ini



desktop.ini

Regional and Language Options

Formats | Location | Keyboards and Languages | Administrative

To change the way your computer displays numbers, currencies, dates, and time, select an entry from the format list.

Current format:
English (United States)

Examples of how data is displayed using this format:

Number: 123,456,789.00
Currency: \$123,456,789.00
Time: 4:26:36 PM
Short date: 7/31/2008
Long date: Thursday, July 31, 2008

Customize this format...

For additional formats, keyboards, and tools, go to the [Microsoft website](#).

OK Cancel Apply



Regional and Langu...

4:26 PM



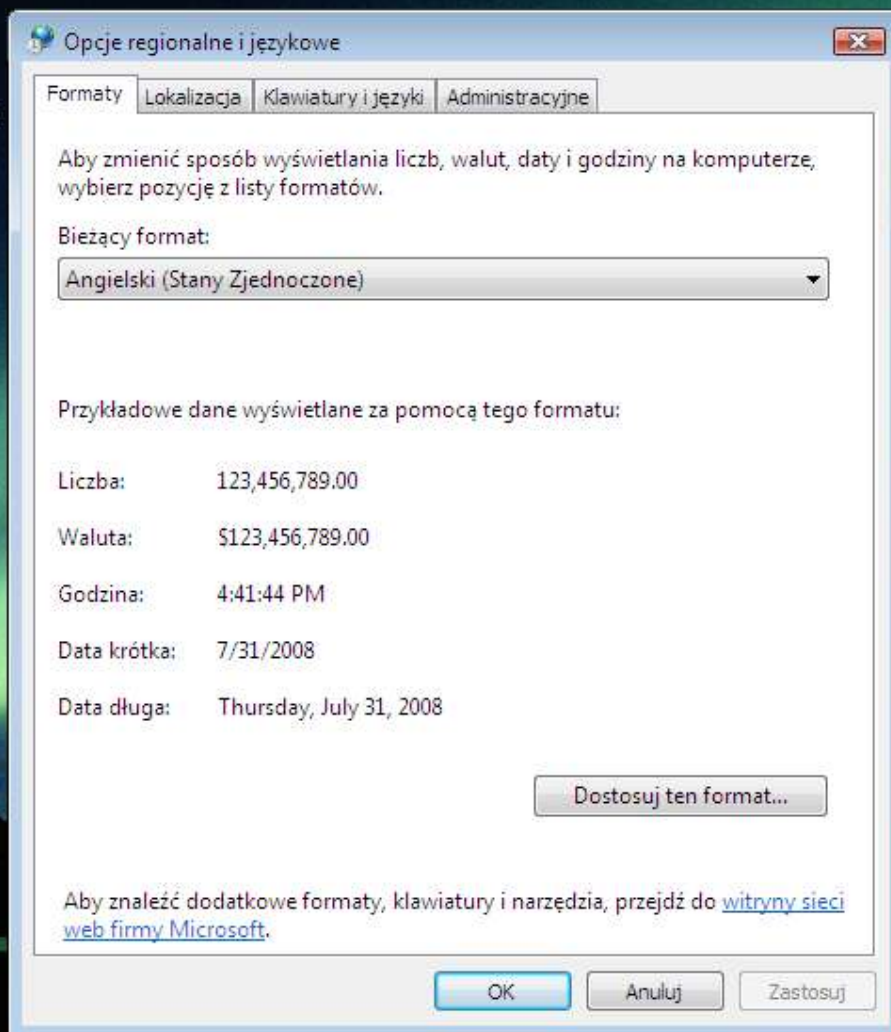
Kosz



desktop.ini



desktop.ini



Opcje regionalne i językowe

Opcje regionalne i j...

EN



4:41 PM



CYRILLIC

Cyrillic

- Before Unicode
 - Several encodings
 - Lots of conversion issues
- Operational
 - Nearly identical to Latin
 - Shares some characters

Russian

а б в г д е ё ж з и й к л м н о п р

а б в г д е ё ж з и й к л м н о п р

с т у ф х ц ч ш щ ъ ы ь э ю я

с т у ф х ц ч ш щ ъ ы ь э ю я





Recycle Bin



Internet
Internet Explorer



E-mail
Windows Mail



Welcome Center



Windows Media Center



Windows Ultimate Extras



Windows Media Player



Windows Photo Gallery



Windows Live Messenger Download



Windows DVD Maker



Windows Meeting Space



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▶ **All Programs**



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Computer

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Control Panel

Default Programs

Help and Support





Корзина



Интернет
Internet Explorer



Электронная почта
Почта Windows



Центр начальной настройки



Windows Media Center



Windows Ultimate



Проигрыватель Windows Media



Фотоальбом Windows



Загрузка Windows Live Messenger



DVD-студия Windows



Конференц-зал Windows



Управление компьютером



Все программы



User

Документы

Изображения

Музыка

Игры

Недавние документы

Компьютер

Сеть

Подключение

Панель управления

Программы по умолчанию

Справка и поддержка

Начать поиск



EN



4:29 PM

Computer

File Edit View Tools Help

Organize Views System properties Uninstall or change a program Map network drive Open Control Panel

Favorite Links

- Documents
- Pictures
- Music
- More >>

Folders

- Desktop
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CD Drive (D:)			

VISTABASEVM Workgroup: WORKGROUP

Processor: Intel(R) Core(TM)2 Quad CPU Q6600 @ 2.40GHz

Memory: 512 MB

Computer

4:25 PM

Компьютер

Поиск

Файл Правка Вид Сервис Справка






Упорядочить Виды Свойства системы Удалить или изменить программу Подключить сетевой диск Открыть панель управления

Избранные ссылки

- Документы
- Изображения
- Музыка
- Подробнее >>

Папки

- Рабочий стол
- User
- Общие
- Компьютер
 - Дисковод (A:)
 - Локальный диск
 - CD-дисковод (D:)
 - Swap (Y:)
- Сеть
- Панель управления
- Корзина

Имя	Тип	Полный объем	Свободно		
Жесткие диски (2)					
 Локальный диск (C:)			 Swap (Y:)		
		65.3 GB free of 79.9 GB			1.45 GB free of 1.99 GB
Устройства со съемными носителями (2)					
 Дисковод (A:)			 CD-дисковод (D:)		

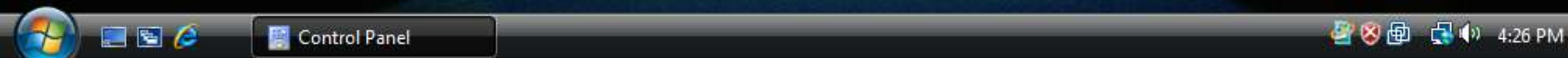
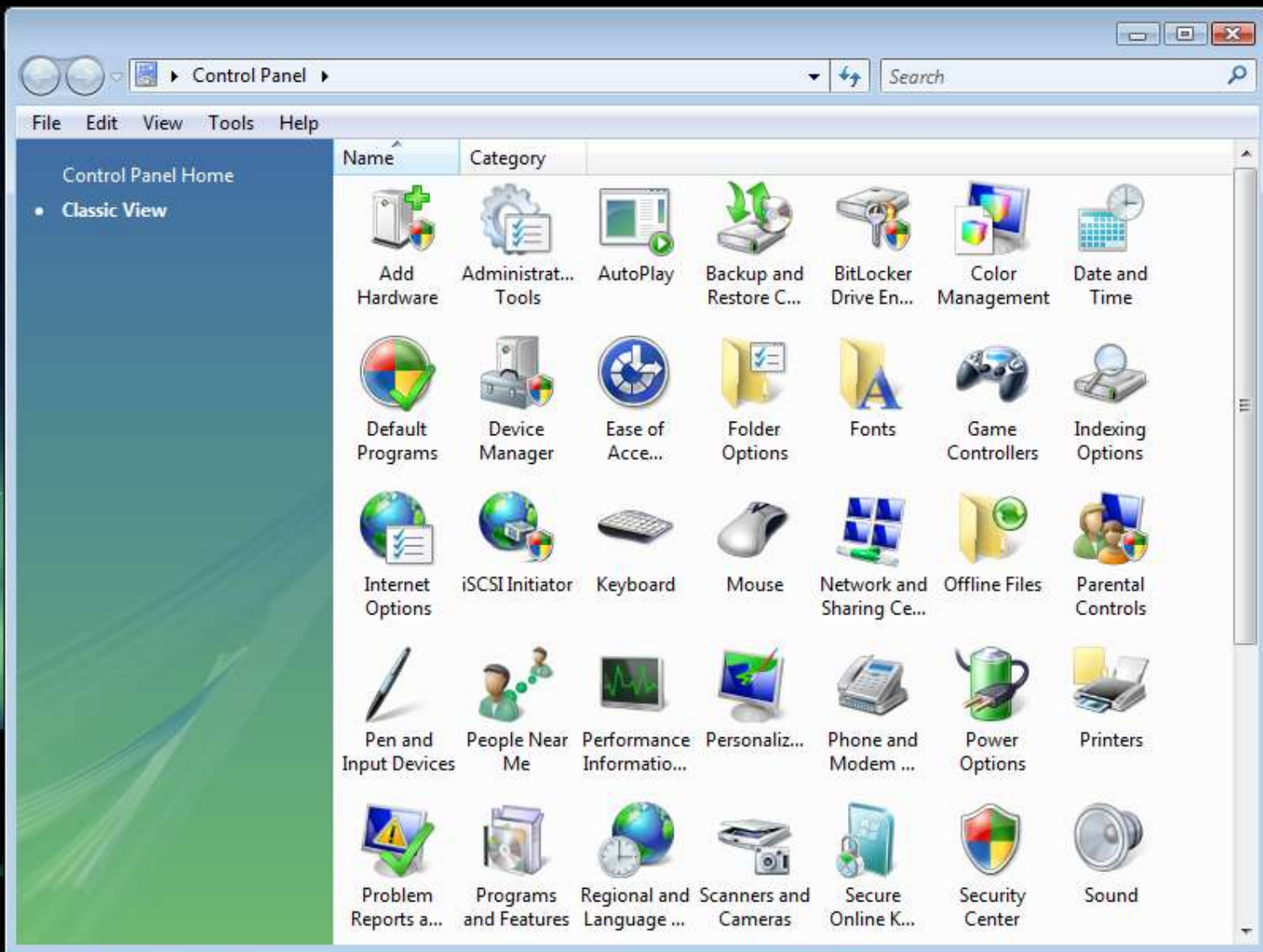
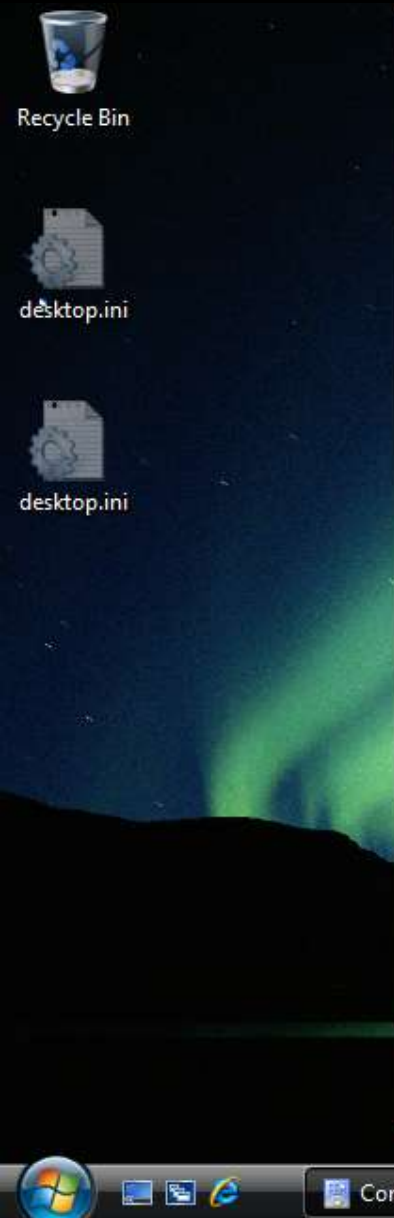
VISTABASEVM Workgroup: WORKGROUP

Processor: Intel(R) Core(TM)2 Quad CPU Q6600 @ 2.40GHz

Memory: 512 MB

Компьютер

EN 4:30 PM





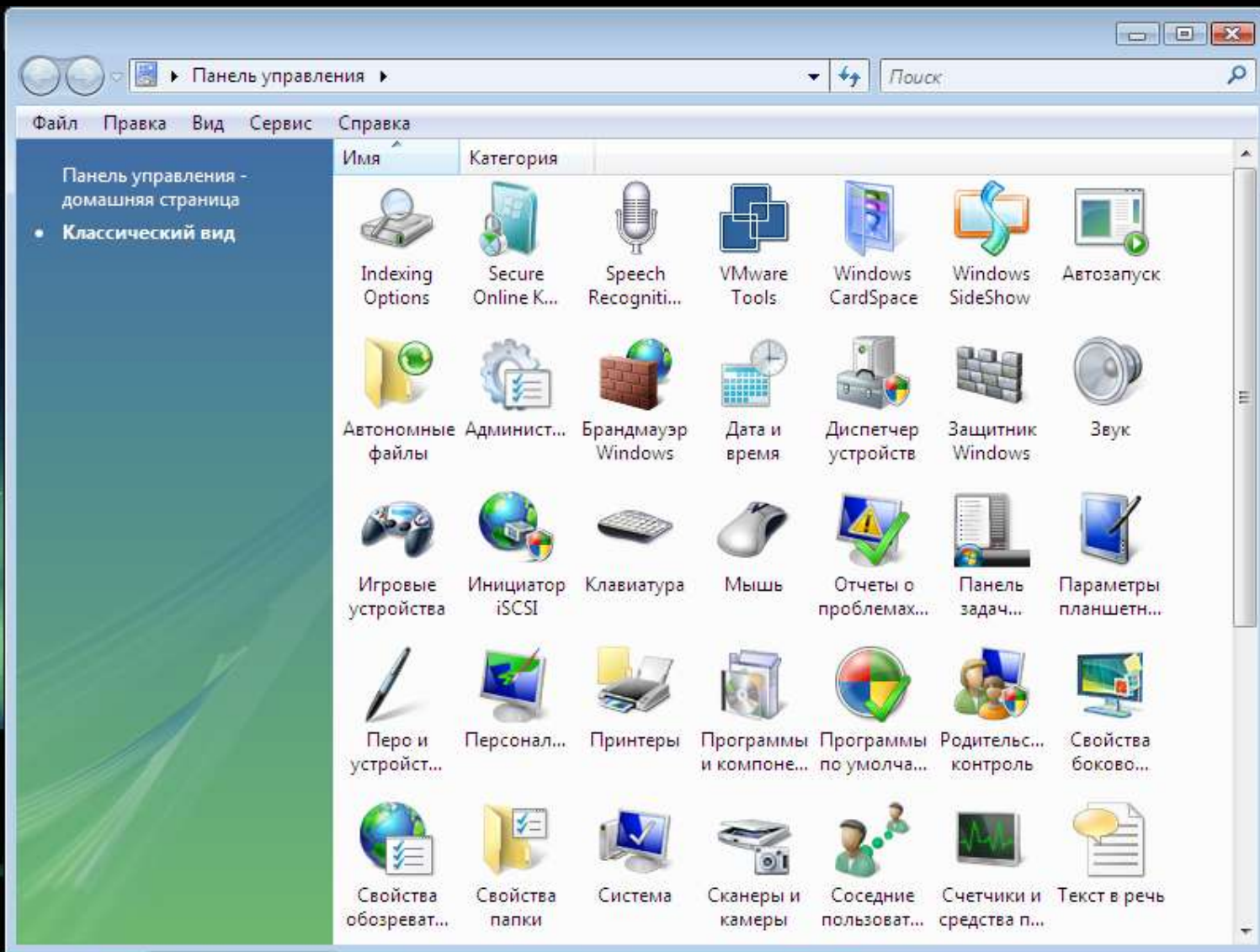
Корзина



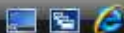
desktop.ini



desktop.ini



Панель управления



Панель управления

EN



4:31 PM



Recycle Bin



desktop.ini



desktop.ini

Regional and Language Options

Formats | Location | Keyboards and Languages | Administrative

To change the way your computer displays numbers, currencies, dates, and time, select an entry from the format list.

Current format:
English (United States)

Examples of how data is displayed using this format:

Number: 123,456,789.00
Currency: \$123,456,789.00
Time: 4:26:36 PM
Short date: 7/31/2008
Long date: Thursday, July 31, 2008

Customize this format...

For additional formats, keyboards, and tools, go to the [Microsoft website](#).

OK Cancel Apply



Regional and Langu...

4:26 PM



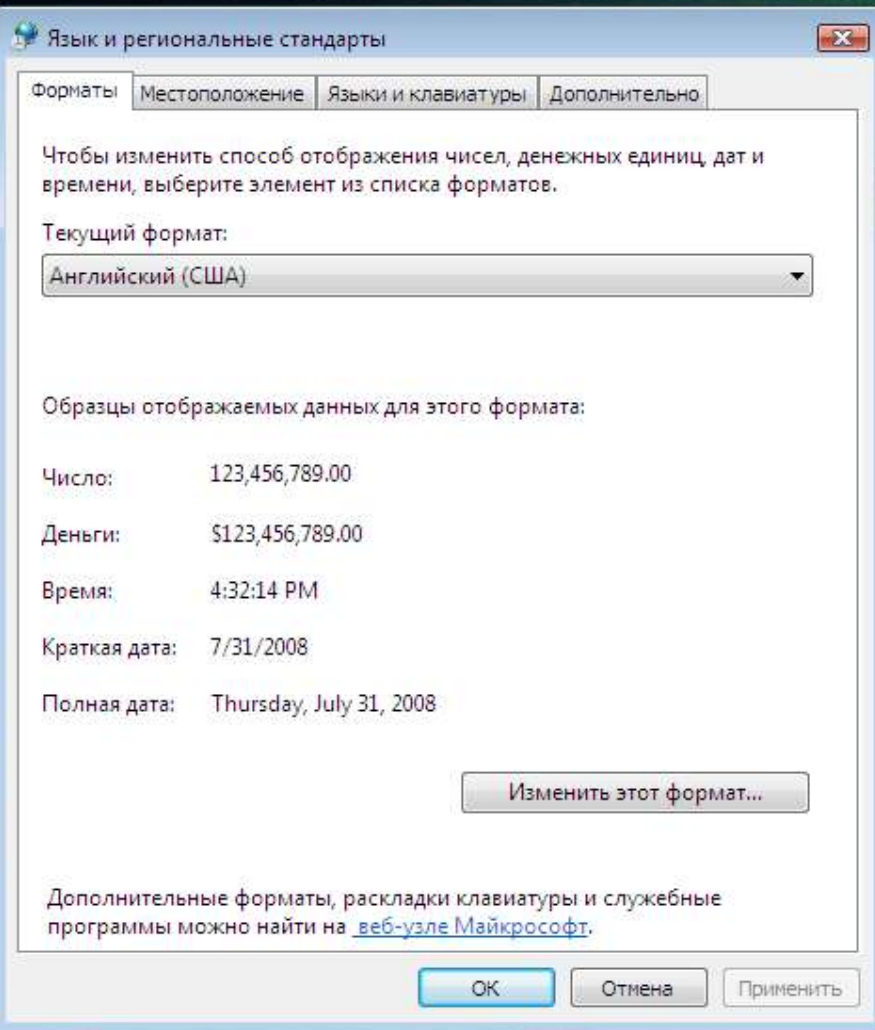
Корзина



desktop.ini



desktop.ini



Язык и региональн...

EN



4:32 PM



GREEK

Greek

- Like Cyrillic
 - Shares many characters
 - And a few with Latin
 - 24 letters vs. 33 for Russian

Αα Alpha

Νν Nu

Ββ Beta

Ξξ Xi

Γγ Gamma

Οο Omicron

Δδ Delta

Ππ Pi

Εε Epsilon

Ρρ Rho

Ζζ Zeta

Σσς Sigma

Ηη Eta

Ττ Tau

Θθ Theta

Υυ Upsilon

Ιι Iota

Φφ Phi

Κκ Kappa

Χχ Chi

Λλ Lambda

Ψψ Psi

Μμ Mu

Ωω Omega

EAST ASIAN

Chinese

- TTB
 - then RTL
(TTB, col height = 1)
- LTR
 - China: 1955
 - Taiwan: 2004
- Less width
 - More height



Japanese

Kanji	Hiragana	Katakana	Rōmaji
私	わたし	ワタシ	<i>watashi</i>
金魚	ぎんぎょ	キンギョ	<i>kingyo</i>
煙草 or 蓆	たばこ	タバコ	<i>tabako</i>
東京	とうきょう	トウキョウ	<i>tokyo</i>

Japanese

- Kanji
 - Similar to Chinese
- Hiragana and Katakana
 - Similar to each other
- Romanji
 - Latin



Jumpin' Japanese!

April 19, 2004 Newspaper Headline

ラドクリフ、マラソン五輪代表に1万m出場にも含み

RADOKURIFU, MARASON gorin daihyō ni ichi-man mētoru shutsujō ni mo fukumi

East Asian Sorting

- Don't Alphabetize
 - Collate!
- Don't try it yourself
- Text with multiple languages
 - Use Unicode collation



Recycle Bin



Internet
Internet Explorer



E-mail
Windows Mail



Welcome Center



Windows Media Center



Windows Ultimate Extras



Windows Media Player



Windows Photo Gallery



Windows Live Messenger Download



Windows DVD Maker



Windows Meeting Space



Computer Management

▶ **All Programs**



User

Documents

Pictures

Music

Games

Recent Items ▶

Computer

Network

Connect To

Control Panel

Default Programs

Help and Support



4:23 PM



資源回收筒



網際網路
Internet Explorer



電子郵件
Windows Mail



歡迎中心



Windows Media Center



Windows Ultimate Extras



Windows Media Player



Windows 相片圖庫



Windows Live Messenger 下載



Windows DVD 製作程式



Windows 會議空間



電腦管理



所有程式



User

文件

圖片

音樂

遊樂場

最近的项目

電腦

網路

連線到

控制台

預設程式

說明及支援

開始搜尋



EN



5:56 PM



Internet
Internet Explorer



电子邮件
Windows Mail



欢迎中心



Windows Media Center



Windows Ultimate Extras



Windows Media Player



Windows 照片库



Windows Live Messenger 下载



Windows DVD Maker



Windows 会议室



计算机管理



所有程序



User

文档

图片

音乐

游戏

最近使用的项目

计算机

网络

连接到

控制面板

默认程序

帮助和支持

开始搜索



5:58 PM

Computer

File Edit View Tools Help

Organize Views System properties Uninstall or change a program Map network drive Open Control Panel

Favorite Links

- Documents
- Pictures
- Music
- More >>

Folders

- Desktop
- User
- Public
- Computer
- Floppy Disk Drive
- Local Disk (C:)
- CD Drive (D:)
- Swap (Y:)
- Network
- Control Panel
- Recycle Bin

Name	Type	Total Size	Free Space
Hard Disk Drives (2)			
Local Disk (C:)		65.3 GB free of 79.9 GB	
Swap (Y:)		1.45 GB free of 1.99 GB	
Devices with Removable Storage (2)			
Floppy Disk Drive (A:)			
CD Drive (D:)			

VISTABASEVM Workgroup: WORKGROUP

Processor: Intel(R) Core(TM)2 Quad CPU Q6600 @ 2.40GHz

Memory: 512 MB

Computer

4:25 PM

计算机 > 搜索

组织 视图 系统属性 卸载或更改程序 映射网络驱动器 打开控制面板

收藏夹链接

- 文档
- 图片
- 更多 >>

文件夹

- 桌面
- User
- 公用
- 计算机
 - 软盘驱动器 (A:)
 - 本地磁盘 (C:)
 - CD 驱动器 (D:)
 - Swap (Y:)
- 网络
- 控制面板
- 回收站

名称	类型	总大小	可用空间
硬盘 (2)			
本地磁盘 (C:)		65.3 GB free of 79.9 GB	
Swap (Y:)		1.45 GB free of 1.99 GB	
有可移动存储的设备 (2)			
软盘驱动器 (A:)			
CD 驱动器 (D:)			

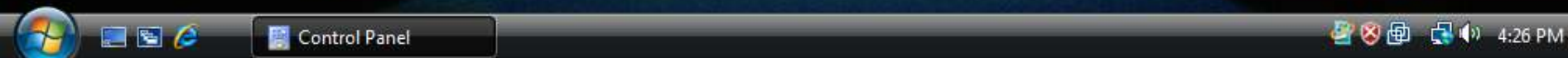
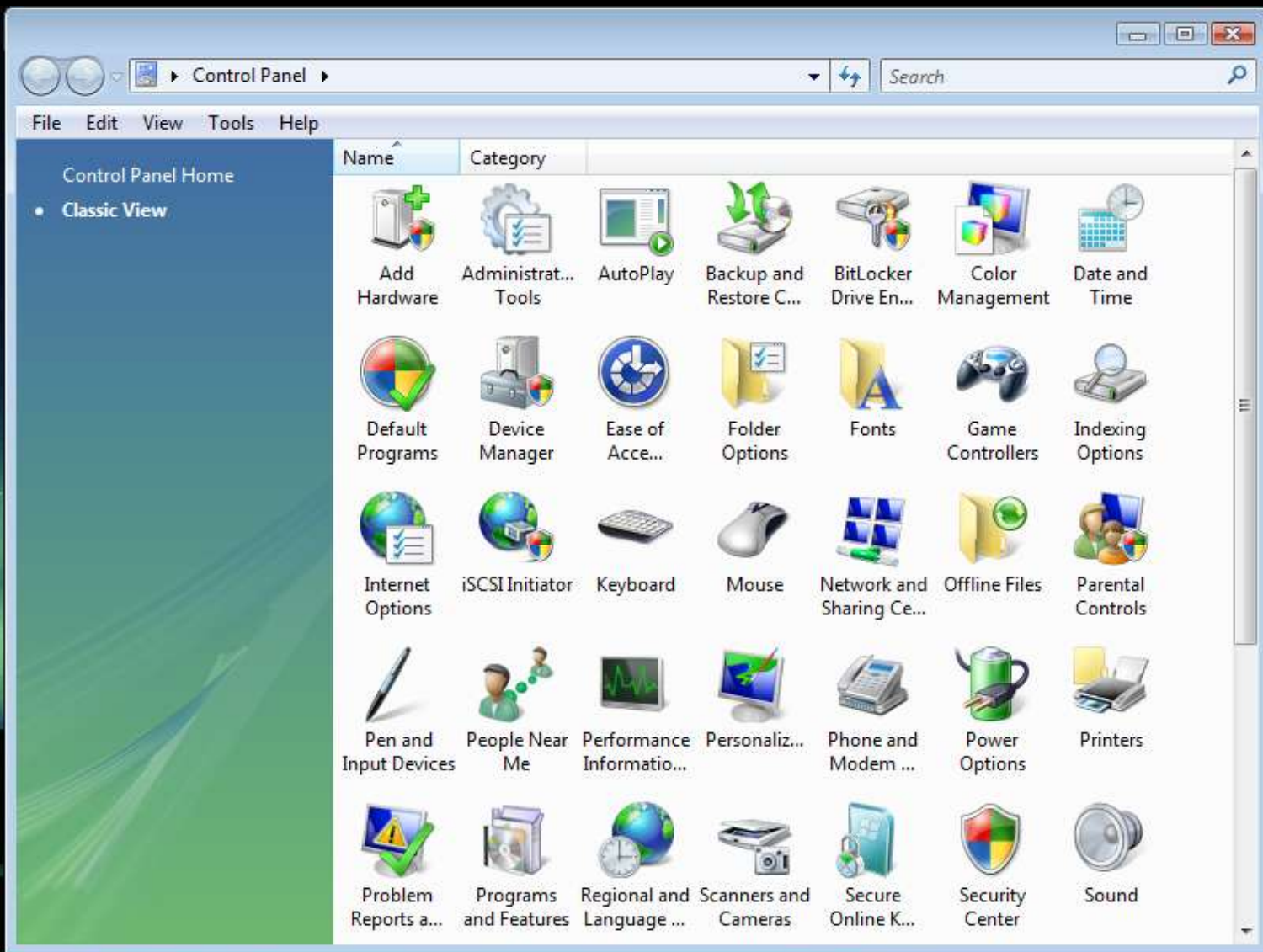
VISTABASEVM Workgroup: WORKGROUP

Processor: Intel(R) Core(TM)2 Quad CPU Q6600 @ 2.40GHz

Memory: 512 MB

计算机

5:59 PM





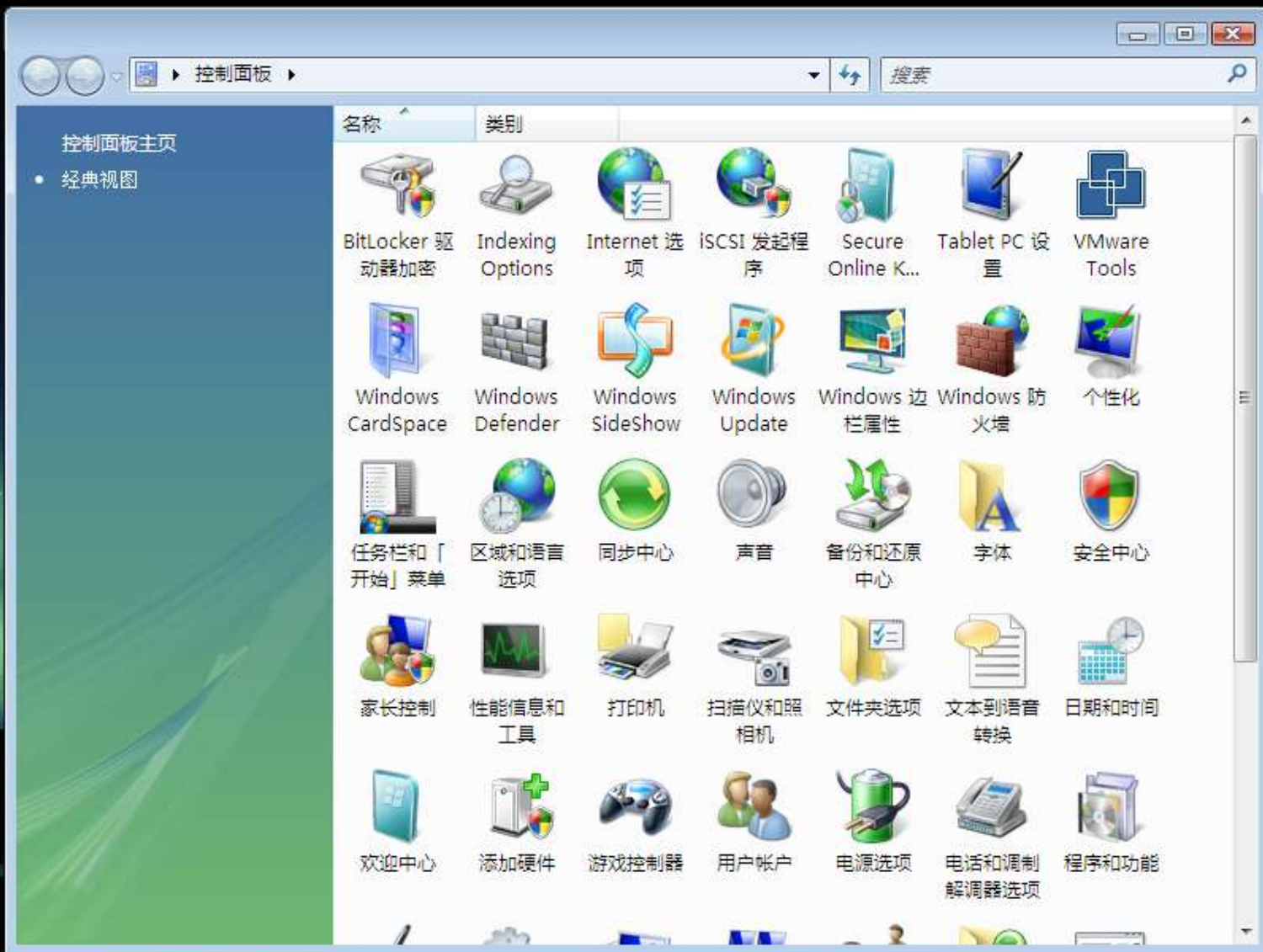
回收站



desktop.ini



desktop.ini



控制面板



6:00 PM



Recycle Bin



desktop.ini



desktop.ini

Regional and Language Options

Formats | Location | Keyboards and Languages | Administrative

To change the way your computer displays numbers, currencies, dates, and time, select an entry from the format list.

Current format:
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Examples of how data is displayed using this format:

Number: 123,456,789.00
Currency: \$123,456,789.00
Time: 4:26:36 PM
Short date: 7/31/2008
Long date: Thursday, July 31, 2008

Customize this format...

For additional formats, keyboards, and tools, go to the [Microsoft website](#).

OK Cancel Apply



Regional and Langu...

4:26 PM



回收站



desktop.ini



desktop.ini



区域和语言选项



格式

位置

键盘和语言

管理

若要更改计算机显示数字、货币、日期和时间的方式，请从“格式”列表中选择项。

当前格式(C):

英语(美国)

使用此格式显示数据的示例:

数字: 123,456,789.00

货币: \$123,456,789.00

时间: 6:00:36 PM

短日期: 7/31/2008

长日期: Thursday, July 31, 2008

自定义此格式(U)...

请转到 [Microsoft 网站](#) 获取其他格式、键盘和工具。

确定

取消

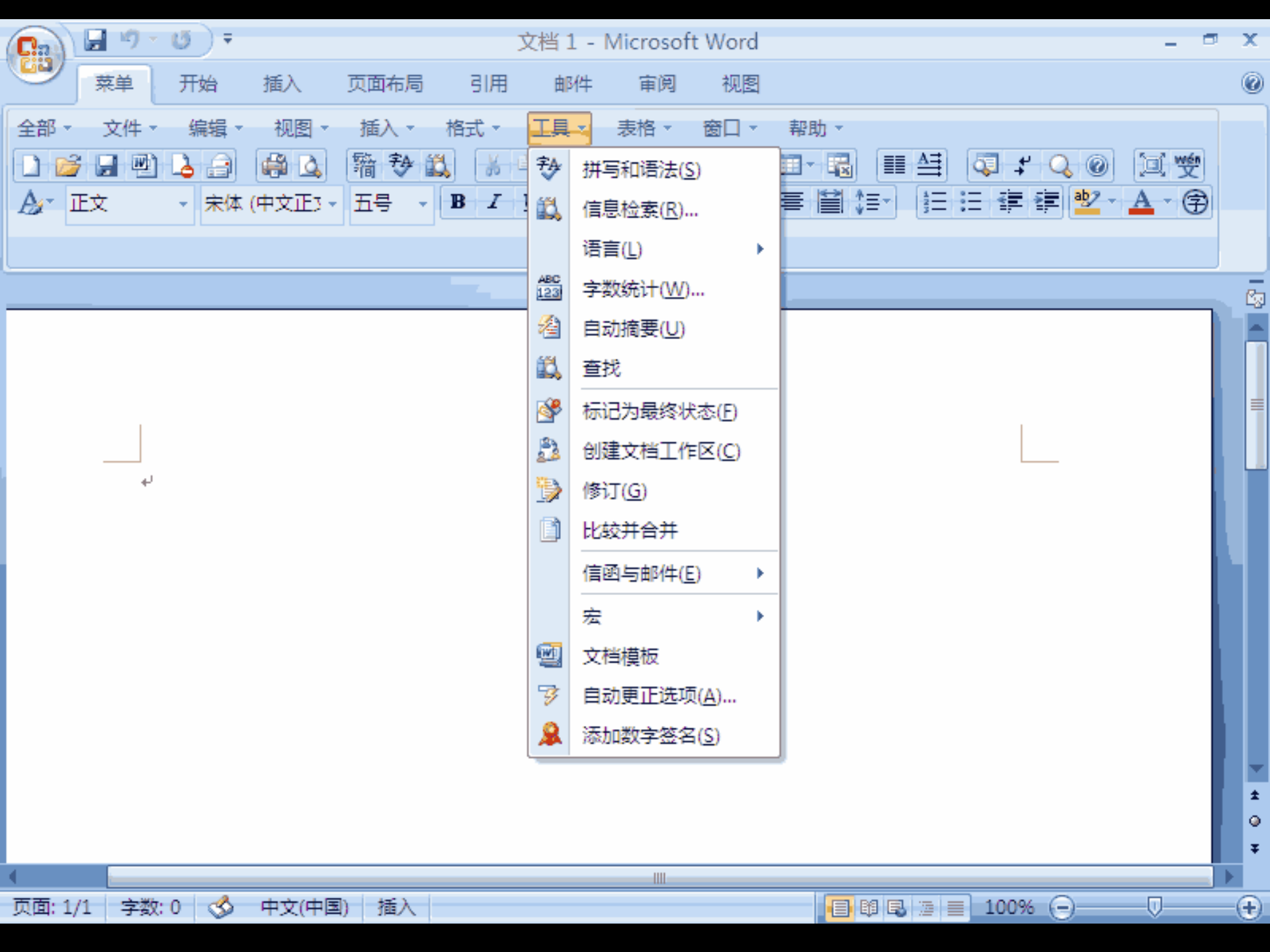
应用(A)



区域和语言选项



6:00 PM





TFEL OT THGIR

Common RTL Scripts

فارسی

Farsi / Persian

العربية

Arabic

כל בני האדם נולדו בני חורין ושווים בערכם ובזכויותיהם.
כולם חוננו בתבונה ובמצפון, לפיכך חובה עליהם לנהוג
איש ברעהו ברוח של אחוה.

Hebrew

اسلئے انہیں ایک دوسرے کے ساتھ بھائی چارے کا سلوک کرنا

Urdu



Recycle Bin



Internet
Internet Explorer



E-mail
Windows Mail



Welcome Center



Windows Media Center



Windows Ultimate Extras



Windows Media Player



Windows Photo Gallery



Windows Live Messenger Download



Windows DVD Maker



Windows Meeting Space



Computer Management

▶ **All Programs**



User

Documents

Pictures

Music

Games

Recent Items ▶

Computer

Network

Connect To

Control Panel

Default Programs

Help and Support



4:23 PM



سلة المحذوفات



User

المستندات

الصور

الموسيقى

الألعاب

◀ العناصر الحديثة

الكمبيوتر

الشبكة

الاتصال بـ

لوحة التحكم

البرامج الافتراضية

التعليمات والدعم

إنترنت
Internet Explorer



البريد الإلكتروني
Windows بريد



مركز الترحيب



Windows Media Center



Windows Ultimate Extras



Windows Media Player



Windows معرض صور



Windows Live Messenger تنزيل



أداة إنشاء قرص DVD من Windows



Windows Meeting Space



إدارة الكمبيوتر



كافة البرامج



PM ٦:٠٦



EN



Computer

File Edit View Tools Help

Organize Views System properties Uninstall or change a program Map network drive Open Control Panel

Favorite Links

- Documents
- Pictures
- Music
- More >>

Folders

- Desktop
- User
- Public
- Computer
- Floppy Disk Drive
- Local Disk (C:)
- CD Drive (D:)
- Swap (Y:)
- Network
- Control Panel
- Recycle Bin

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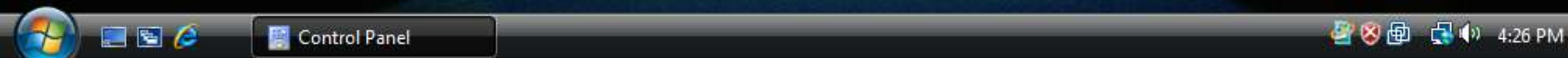
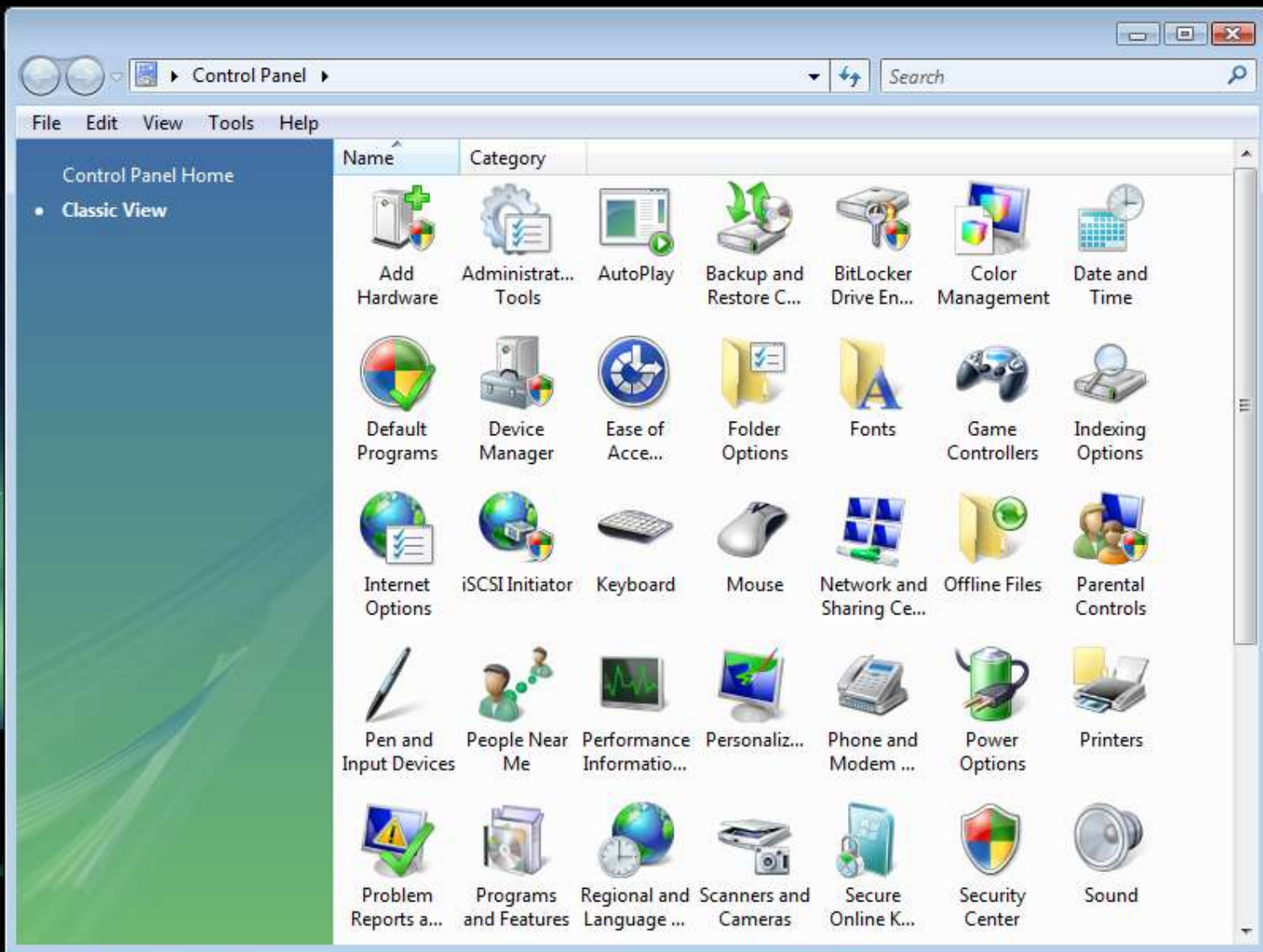
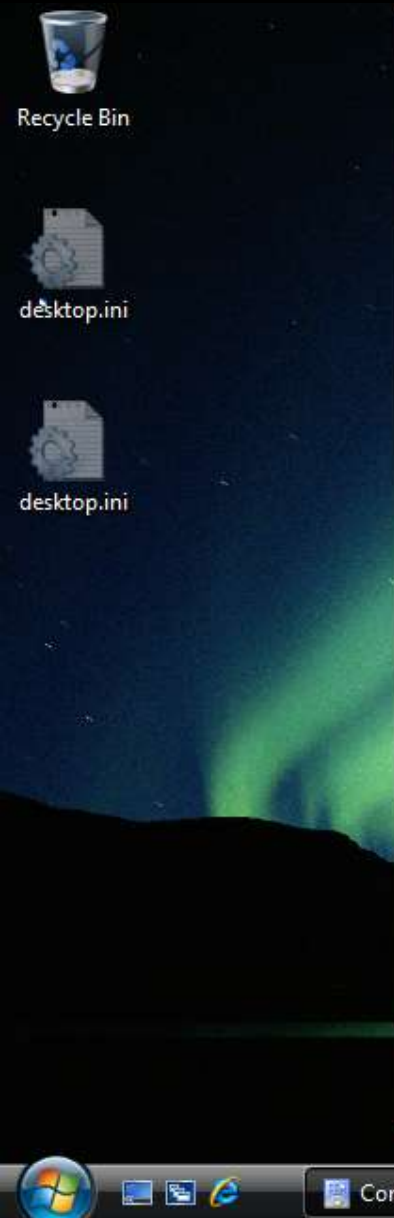
Computer

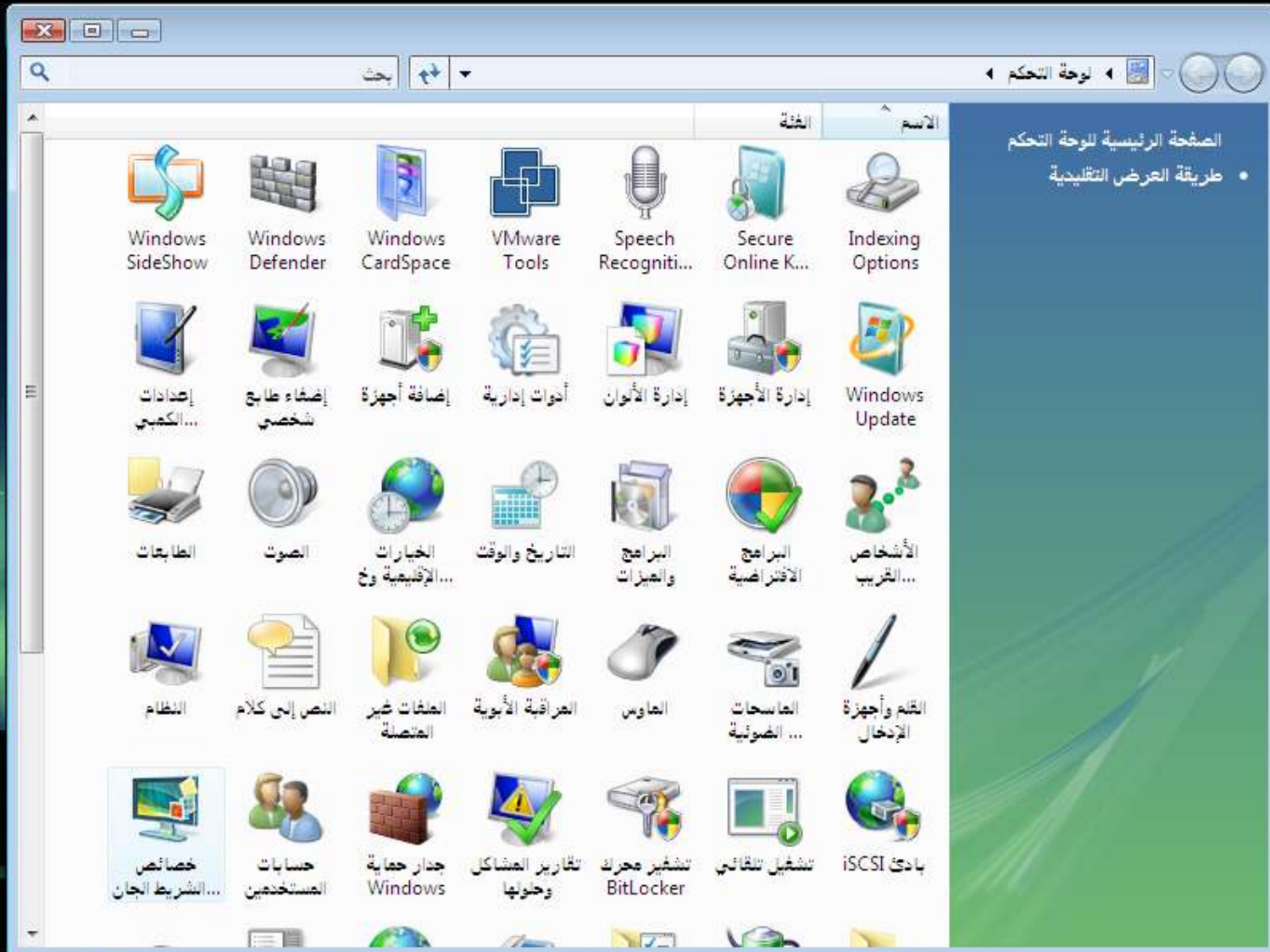
4:25 PM

الاسم	النوع	الحجم الإجمالي	المساحة الحرة
محركات الأقراص الثابتة (٢)			
Local Disk (C:)		٦٥.٣ GB free of ٧٩.٩ GB	
Swap (Y:)		١.٤٥ GB free of ١.٩٩ GB	
أجهزة ذات "تخزين قابل للنقل" (٢)			
محرك القرص المرن (A:)			
CD Drive (D:)			

- الارتباطات المفصلة
- المستندات
 - الصور
 - الموسيقى
 - المزيد

- المجلدات
- سطح المكتب
 - User
 - شخصي
 - الكمبيوتر
 - محرك القرص المرن (A:)
 - Local Disk (C:)
 - CD Drive (D:)
 - Swap (Y:)
 - الشبكة
 - لوحة التحكم
 - سلة المحذوفات







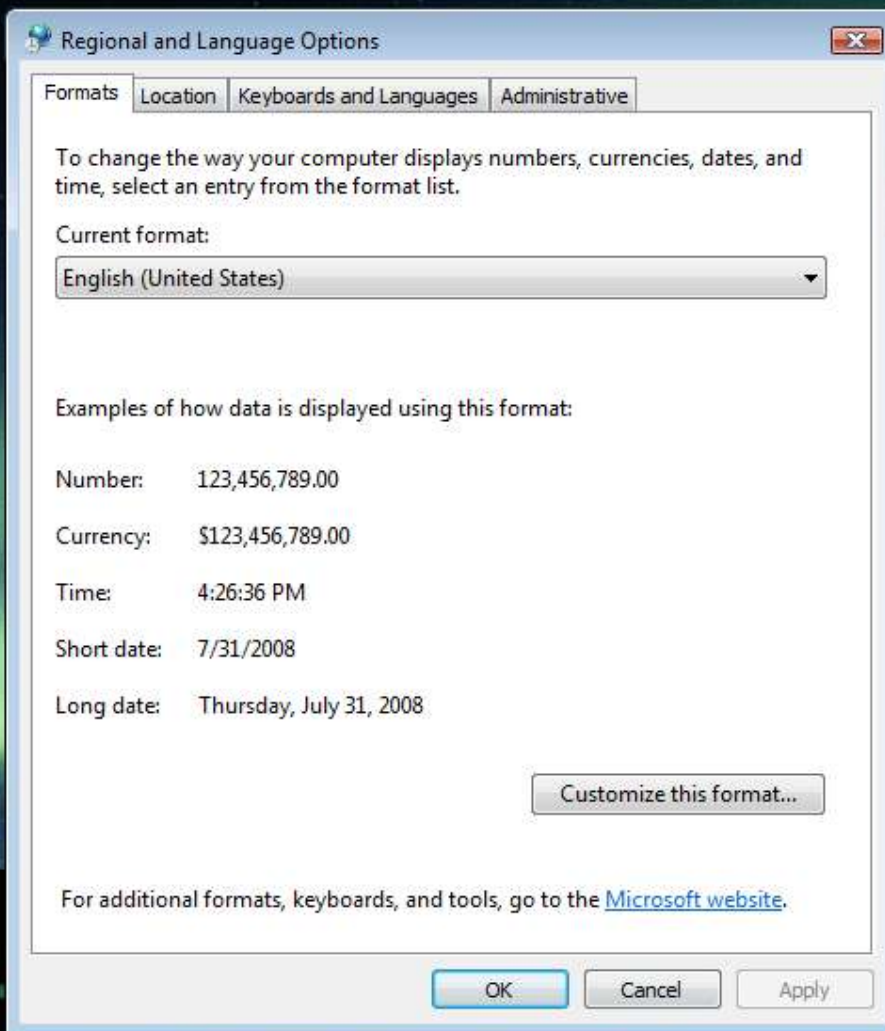
Recycle Bin



desktop.ini



desktop.ini



Regional and Langu...

4:26 PM

الخيارات الإقليمية وخيارات اللغة

التنسيفات | الموقع | لوحات مفاتيح ولغات | إداري

لتغيير الطريقة التي يعرض بها الكمبيوتر الأرقام والعملات والتواريخ والوقت، حدد إدخالاً من قائمة التنسيقات.

التنسيق الحالي:

الإنجليزية (الولايات المتحدة)

نماذج كيفية عرض البيانات باستخدام هذا التنسيق:

الرقم: ١٢٣,٤٥٦,٧٨٩,٠٠٠

العملة: \$١٢٣,٤٥٦,٧٨٩,٠٠٠

الوقت: PM ٦:٠٧:٥٨

تاريخ قصير: ٧/٣١/٢٠٠٨

تاريخ طويل: Thursday, July ٣١, ٢٠٠٨

تخصيص التنسيق الحالي...

للحصول على تنسيقات ولوحات مفاتيح وأدوات، انتقل إلى [موقع Microsoft على ويب](#).

تطبيق | إلغاء الأمر | موافق



سلة المحذوفات



desktop.ini



desktop.ini





חיפוש מועדפים

- ◀ כרגלי כלים
- שורת מצב ✓
- ◀ Explorer
- ◀ עבור אל
- Esc עבור
- F5 רענן
- ◀ גדל טקסט
- ◀ קטן
- מקור
- דו"ח פרטיות...
- F11 מסך מלא

הקודם →

כתובה co.il/

ערבית (ASMO 708)
ערבית (DOS)
ערבית (ISO)

ערבית (Windows)

בלטית (ISO)
בלטית (Windows)

מרכז אירופה (DOS)
מרכז אירופה (ISO)
מרכז אירופה (Windows)

סינית כשונה (GB2312)
סינית כשונה (HZ)

סינית מסורתית (Big5)

קירילי (DOS)
קירילי (ISO)
קירילי (KOI8-R)
קירילי (KOI8-U)
קירילי (Windows)

יוונית (ISO)
יוונית (Windows)

עברית (DOS)
עברית (ISO-Logical)
עברית (ISO-Visual)

יפנית (בחירה אוטומטית)
יפנית (EUC)
יפנית (Shift-JIS)

בחירה אוטומטית

עברית (Windows)
עברית (Windows)
מערב אירופה (ISO)
Unicode (UTF-8) ●

עוד

● מסנן משמאל-לימין
מסנן מימין-לשמאל

Kudzu World

"Programming is an art form that fights back"

[Who is Kudzu?](#)[What is Kudzu?](#)[Kudzu's Blogs](#)[Contact Kudzu](#)[Kudzu World](#)[English](#) - [Română](#) - [Русский](#) - [عربي](#)

Kudzu World

Welcome to my strange corner of the web!

Kudzu World is my public web page which contains articles, reviews, and other musings of technical, kudzu, and other content. Much of the content is specific to software development, however for you non software developers do not let that scare you away. There is a lot of other content as well. To find what you are looking for, you can use the menus on the right throughout the site.

Kudzu?

Gone for the
weekend?



Did you know?

The kudzu plant can grow 7 feet (over 2 meters) per week? Find out more about the [amazing kudzu plant](#).



[Using PayPal?](#)
[Read this](#)



Kudzu World

"البرمجة: فنّ و تمرّد"

رأسل Kudzu

Kudzu's Blogs

ما هي Kudzu ؟

من هو Kudzu ؟

[Kudzu World](#)

[عريف](#) - [English](#) - [Română](#) - [Русский](#)

هل تعلم؟

تنمو نبتة ال kudzu أكثر
من سبعة أقدام (أي أكثر
من مترين) في الأسبوع
الواحد. [استكشف المزيد](#)
[عن هذه النبتة الرائعة.](#)

Technical

Tech Blog

.NET, software, and
computer related
.items

[NET MicroFramework:](#)

Independent
MicroFramework portal
with news,
development kits, and
more

Kudzu World

!Welcome to my strange corner of the web

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?Kudzu

Gone for the
?weekend



Select your Location | [عربي](#)

Product Families

- Windows
- Office
- Windows Server System
- Developer Tools
- Business Solutions
- Windows Mobile
- Games
- Hardware
- MSN Arabia Services
- Arabic Development & Support

Resources

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- Security
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- Windows Update
- Communities
- MSDN
- Learning Tools
- Licensing
- Careers
- Find a Partner



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office developer of the year 2008
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News - US Microsoft unveils Silverlight

Latest News

- Saudi Electric Company's head of I.T. shares success at the Microsoft Utility Forum in

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Windows

Office

Windows Server System

أدوات التطوير

حلول للأعمال

Windows Mobile

تسالي

أجهزة

خدمات MSN Arabia

التطوير والدعم للغة العربية

الموارد

أحداث

أمان

دعم

تحميل

Windows Update

مجتمعات

MSDN

أدوات تعليمية

الترخيص

وظائف

ابحث عن شركاء مايكروسوفت

Microsoft unveils Silverlight

News - US

وجّهات شائعة

آخر الأخبار

لمطوري البرمجيات

Arabic Development

للمتخصصين في تقنية المعلومات

TechNet

للمستخدمين في المنزل

Windows Vista

• رئيس قسم الخدمات المعلوماتية في الشركة
السعودية للكهرباء يعرض نجاحاتها في "منتدى

فيديو



صيد الأسماك في بنغلاديش

2:10



جدل ربط عملاء الخليج بالدولار

2:33

المزيد

آخر خبر بالبريد الإلكتروني

سجل هنا

أحدث الأخبار

- بن لادن والظواهري ومجموعة من "الأصدقاء" على Facebook
- 8 قتلى بهجوم نفذته انتحارية على نقطة تفتيش ببعقوبة
- بوش يطمئن سينغ بشأن الاتفاق النووي بين أمريكا والهند
- اللجنة الأولمبية تمنع مشاركة العراق في "أولمبياد بكين"
- عهود أوياما المقدسية يعيرون صحف العرب: يمتلئ قادة إسرائيل
- 100 مجندة أمريكية لقين حثفن بالعراق منذ بدء الحرب
- الصين: إحباط مؤامرة إرهابية دولية "تستهدف الأولمبياد"
- أفضل 4 هواتف وسائط متعدد محمولة
- الخطايا الست لغسل البيئة: دليل لكشف خداع المستهلكين بيئياً
- مزيد من التذبذب في بورصة الكويت والتعافي بالإمارات
- أوياما: امتلاك إيران للنووي سيبدل قواعد اللعبة بالعالم

الأكثر تصفحاً

- ردأ على اعتقال ابن "الأصغر" للقذافي.. ليبيا تقطع النفط عن سويسرا
- صحف: ليبيا تتنقذ من برن لتوقيف القذافي و600 متحول سعودي
- بن لادن والظواهري ومجموعة من "الأصدقاء" على Facebook
- أفضل 4 هواتف وسائط متعدد محمولة



ردأ على اعتقال الابن "الأصغر" للقذافي.. ليبيا تقطع النفط عن سويسرا

في تصعيد جديد للثزمة بين ليبيا وسويسرا، في أعقاب قيام السلطات السويسرية باعتقال الابن "الأصغر" للرئيس الليبي معمر القذافي، قررت المؤسسة الوطنية الليبية للنقل البحري الخميس، قطع إمدادات النفط عن سويسرا. جاء هذا القرار

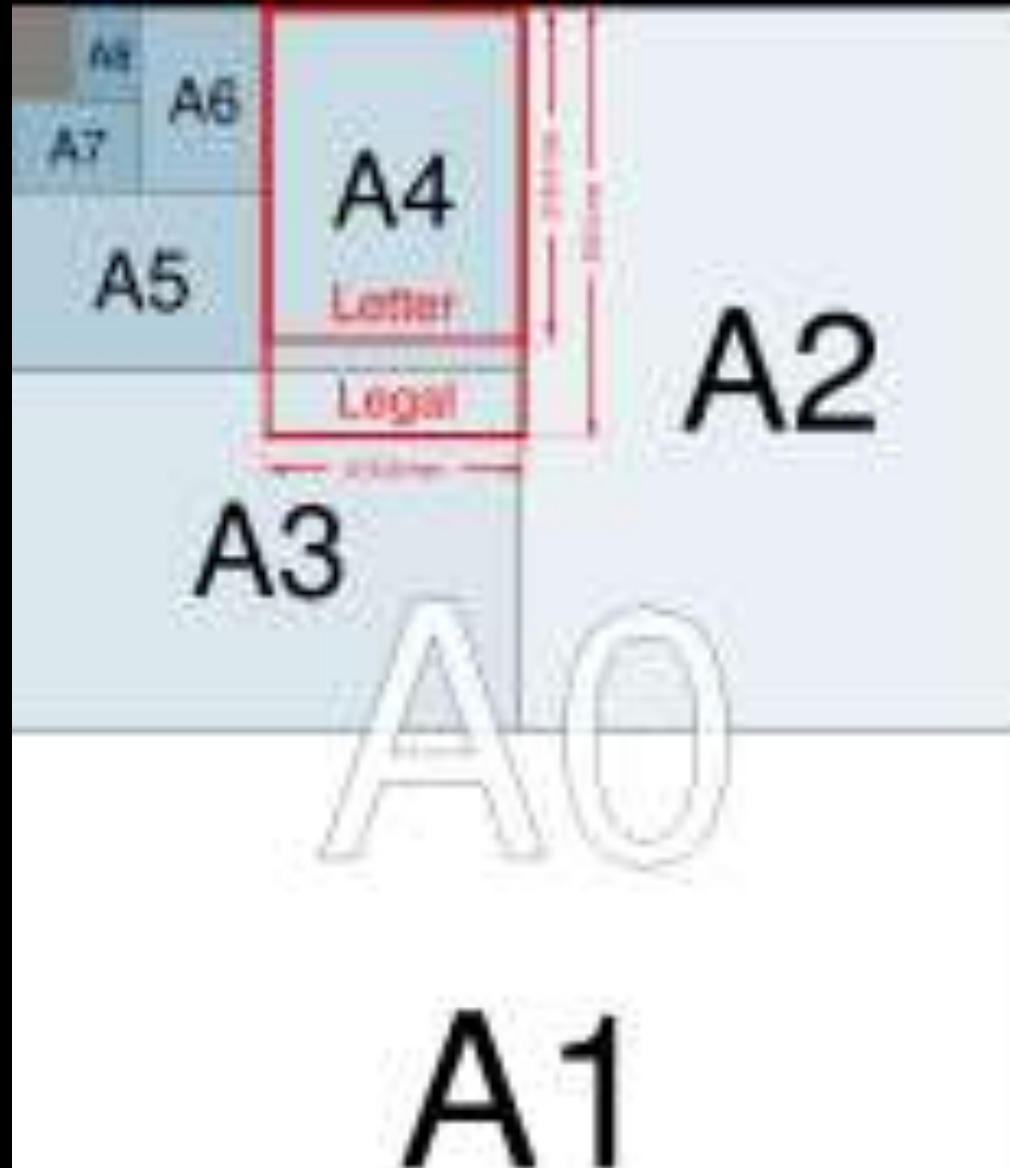


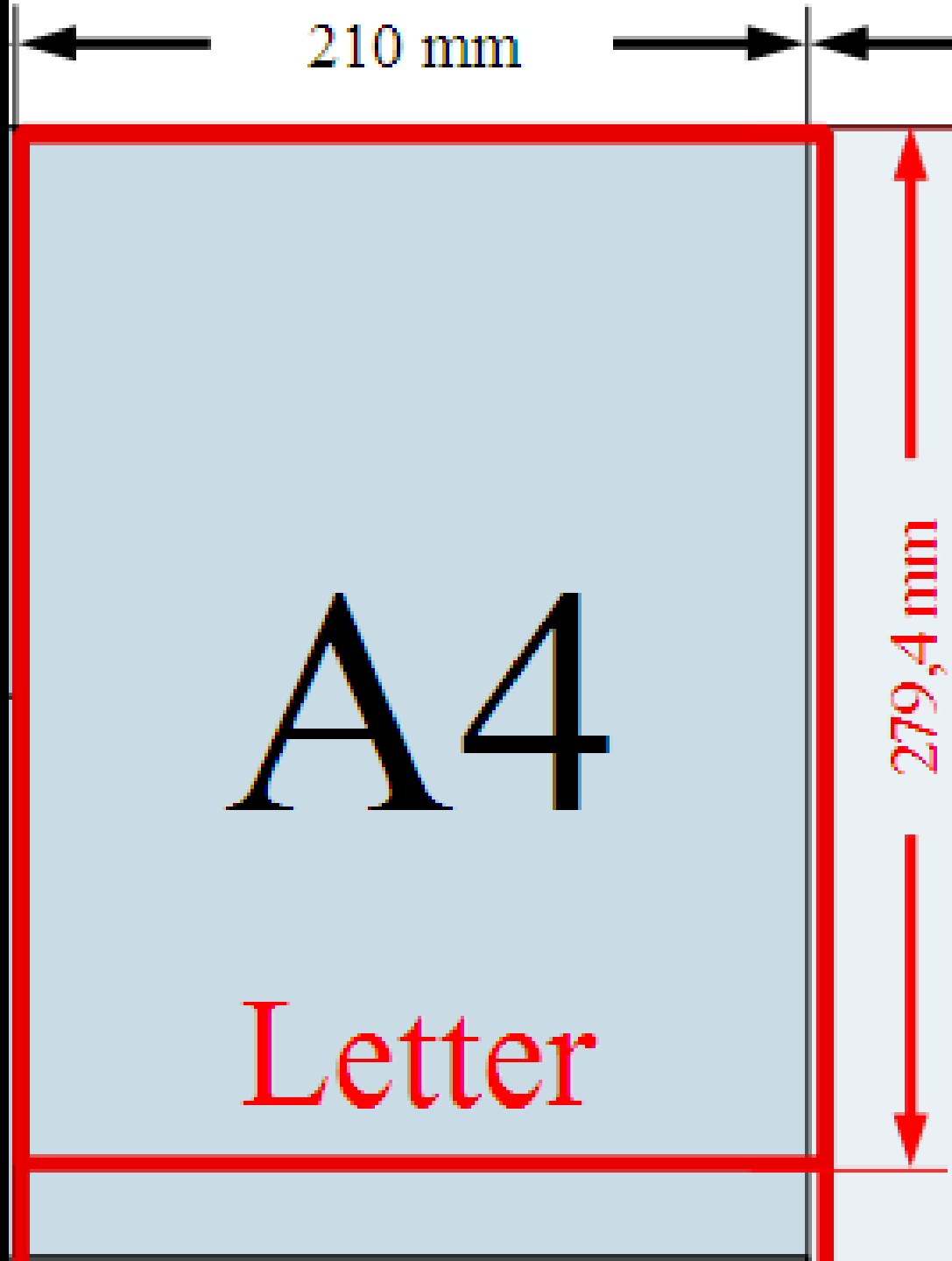
OTHER LTR

Many other LTR's

- Hindi
 - Many scripts
 - #5 in spoken languages
 - Hindi and Urdu are separate languages, but spoken conversation is understandable
- Many other languages.....

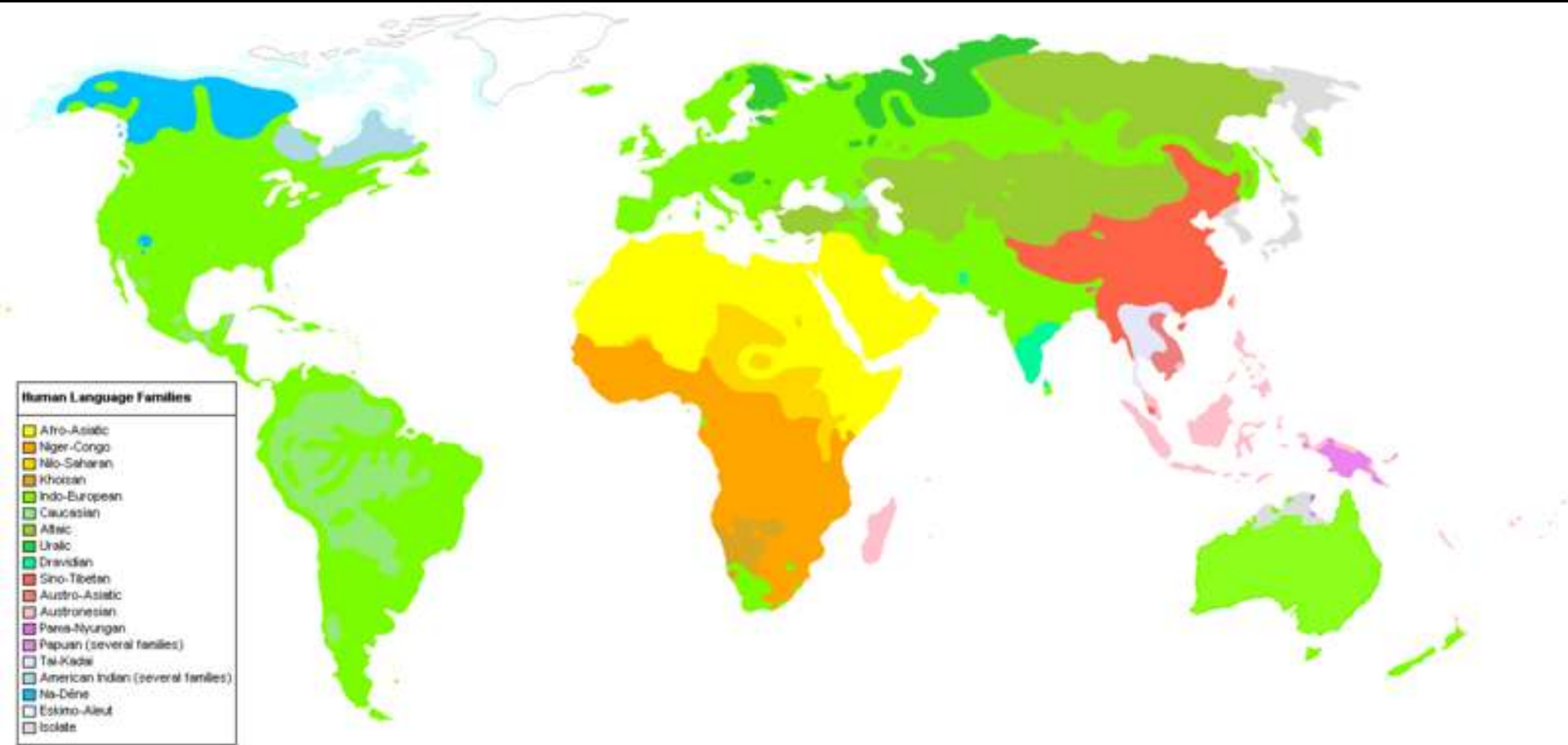
PRINTING



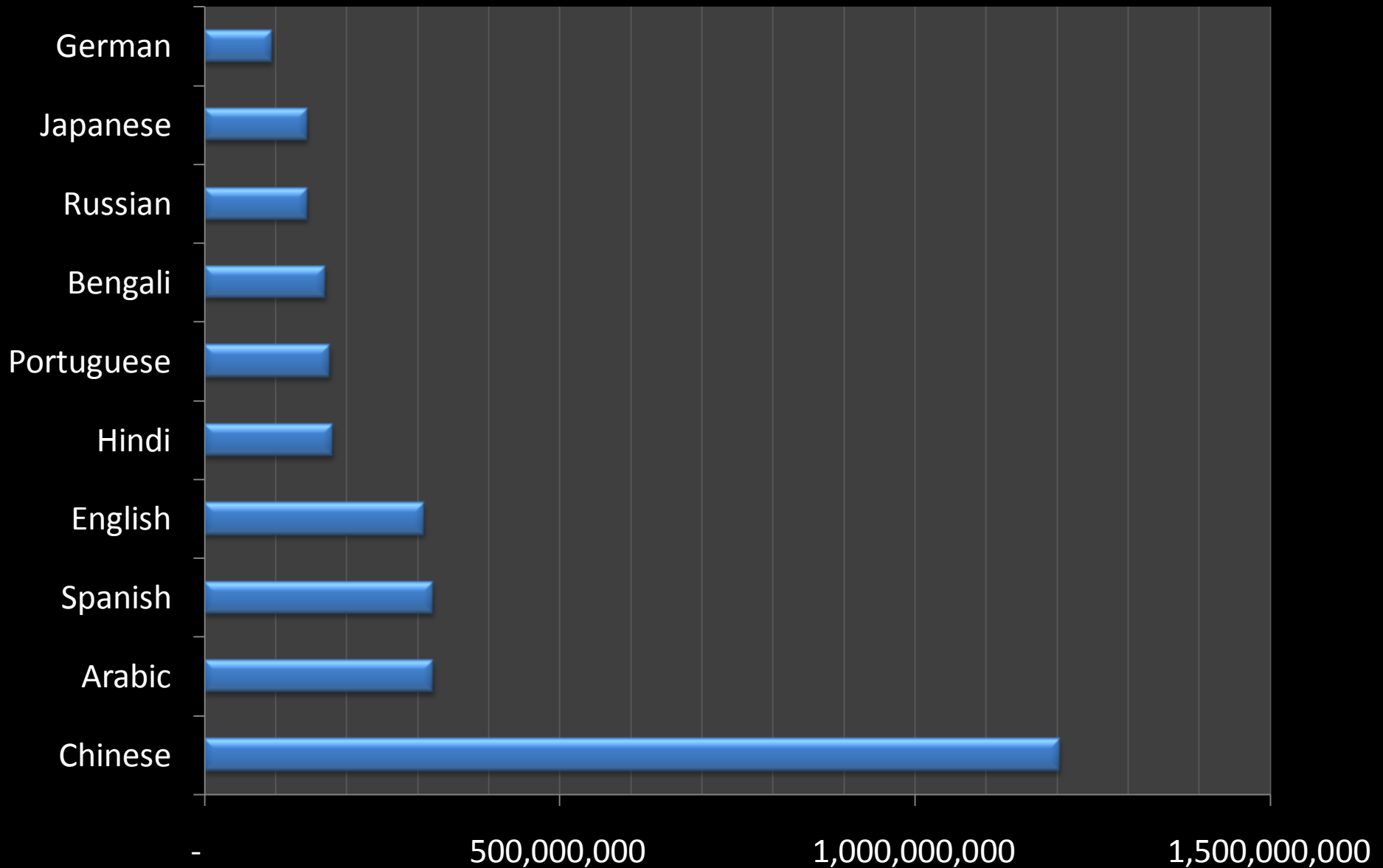




IMPORTANT FACTS



Top 10 Spoken Languages



PLURALS

1 Cow



2 Cows



No Cows

- There are no cows
- In some rarer cases
 - There is no cow

1 Goose



2 Geese



No Geese



1 Moose



2 Meese?



2 Mooses?



2 Moose



No Moose

Counting Cows

How many?	Cow	Goose	Moose
0	Cows	Geese	Moose
1	Cow	Goose	Moose
2+	Cows	Geese	Moose

Standard Rule: Cow

- If Qty = 1
 - Cow
- If Qty > 1
 - Cow + s

Y Rule: Directory

- If Qty = 1
 - Directory
- If Qty > 1
 - Directory - y + ies

Exception List: People

- If Qty = 1
 - Person
- If Qty > 1
 - People

Arabic

- If Qty = 1
 - Variant 1
- If Qty = 2
 - Variant 2
- If Qty > 3
 - Variant 3

Categories

- One
- Few
- Many

Arabic

zero	0
one	1
two	2
few	3-10, 103-110, 203-210...
many	11-99, 111-199, 211-299...
other	100-102, 200-202, 300-302...; 0.31, 1.31, 2.31, 3.31, 11.31, 100.31...

Russian

one	1, 21, 31, 41, 51, 61...
few	2-4, 22-24, 32-34...
many	0, 5-20, 25-30, 35-40...
other	1.31, 2.31, 5.31...

Romanian

one	1
few	0, 2-19, 101-119, 201-219...
other	20-100, 120-200, 220-300...; 1.31, 2.31, 20.31...

Not just Nouns

- Changing a noun to a plural form also requires changing other words

Not just Nouns: Verbs

- Verbs that act on that noun
 - Including English
 - "The Cow walks" but "The Cows walk"

Not just Nouns: Adjectives

- Adjectives that describe the noun
 - Many Romance languages
 - Slavic
 - For English, in most cases not
 - "The big cow walks"
 - "The big cows walk"

Not just Nouns: Adverbs

- In some cases adverbs that describe the verbs that act on the noun
 - Slavic
 - Not English
 - "The big cow walks quickly"
 - "The big cows walk quickly"

Not just Nouns

- Are we having fun yet?

Never Concatenate, Always Format

- "I copied " + x " files in " + y + " folders."
- Different languages may need x and y in different order

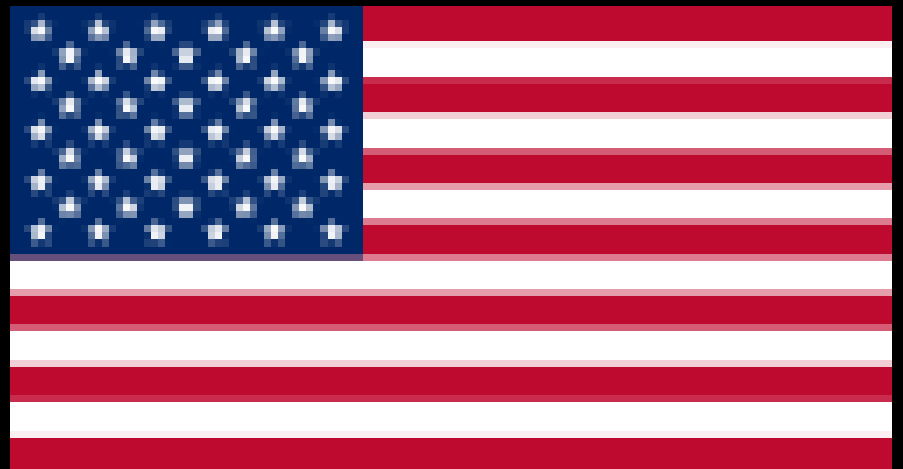
Never Concatenate, Always Format

- Account for variable lengths!
- Compared to English:
 - East Asian is usually shorter
 - Other languages can longer

DIALECTS

Dialects can:

- Make a user feel foreign
- Change meanings
- Confuse users
- Produce “foreign” output



Spelling



Colour

Theatre

Tyre

Localise

Aeroplane

Aluminium

Checque

Enrolment

Catalogue

Ageing



Color

Theater

Tire

Localize

Airplane

Aluminum

Check

Enrollment

Catalog

Aging

Different Meanings



Air Marshal	An officer in the air force	An undercover policeman on a commercial flight.
Amber	A colour	Pine tree resin used in jewelry
Bash	A party	To hit something hard
Biscuit	An American cookie	A type of small bread
Yankee	Any American, often with derogatory intent	A person from New England or "The North". Often also derogatory. 😊
Football		

Different Words



Lift



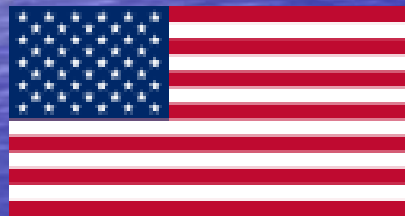
Elevator

A part of the car. Note:
Nearly all car parts are
called by different
names.

Boot

Trunk

More English Dialects



Plus Caribbean, India, Philippines, Africa, South Africa

Not Just English

- French
 - France
 - Canada
- Spanish
 - Spain (Castilian)
 - Latin & South America

Not Just English

- Greek
 - Cyprus
 - Greece
- Chinese
 - Mandarin
 - Cantonese
- Arabic
 - Many dialects

DATES AND TIMES

Date Time

- 7/6 is when?
- Input different than program expects
- Worse – program won't even run because it uses formatting, but does own parsing or parsing is hardcoded

Times

- 11:59 am / 11:59 pm
- 23:59 / 2359
- 11.59 (Germany till 1995)
- 11h59m / 11h59min
- 11時59分
- 11^{59}

12:00 am

	Midnight (start of day)	Noon	Midnight (end of day)
12-hour digital clocks	12:00 a.m.	12:00 p.m.	
U.S. Government Printing Office		12 a.m.	12 p.m.
Canadian Press UK standard NIST	midnight	noon	midnight
Associated Press	midnight	noon	
U.S. de facto legal	12:01 a.m.		11:59 p.m.

Home

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Flights

Hotels

Cars/Rail

Cruises

Last Minute Packag

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Guides Travelocity Business About Travelocity

Packages

Hotels

Flights

- ☒ Flight Only
- ☐ Flight + Hotel
- ☐ Flight + Hotel + Car

From:

☐ Compare surrounding air

☒ Exact dates ☐ +/- 1 to

ible dates

Depart:

mm/dd/yyyy



Anytime



Return:

mm/dd/yyyy



Anytime



Adults (18-64) Minors (2-17) Seniors (65+) ?

Take \$50 off 3-Night California Hotel + C

(Use the Savings to
Fill up the Gas Tank!)

Click Here



12:30 am
01:00 am
01:30 am
02:00 am
02:30 am
03:00 am
03:30 am
04:00 am
04:30 am
05:00 am
05:30 am
06:00 am
06:30 am
07:00 am
07:30 am
08:00 am
08:30 am
09:00 am

RATES & RESERVATION
Get a rate/Reserve a car

THRIFTY [What's This?](#)

LOWEST RATES

> Find a Location

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ame area as pick-up lo

2008 14

2008 15

ehicle at different location

all types


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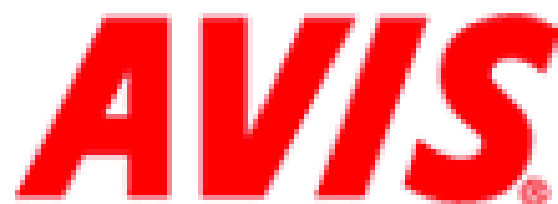
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[View/ Modify/ Cancel »](#)

Rental Date & Time

[Help?](#)

Pick-up Date:

August ▼ 14 ▼ 

Pick-up Time:

9 ▼ 00 ▼ ☒ AM ☐ PM

Return Date:

August ▼ 15 ▼ 

Return Time:

12 ▼ 00 ▼ ☒ AM ☐ PM

November 24, 2008

- Nov 24, 2008 / November 24, 2008
- Canada
 - 11/24/08 (American)
 - 24/11/08 (European)
 - 2008-11-24 (Official)
- 24.11.2008 (Turkey)
- 24/11-2008 (Old Swedish)

Confusion – 8/7

- August 7
- September 8

*Software often hardcodes the format
“disabling” the users system or forcing a
change of the whole system to US formats.*

Canada

- Officially: 2008-11-24
- Quebec: 24/11/2008
- US Influence: 11/24/2008

Canuck Conundrum: Simple as 1-2-3 and Post Y2K

- 01/02/03
 - February 1, 2003
 - January 2, 2003
 - February 3, 2001

Canadian Time Travel

01/02/03 12:00 am

- February 1, 2003 – Start of Day
- February 1, 2003 – Noon
- February 2, 2003 – Start of Day
- January 2, 2003 – Start of Day
- January 2, 2003 – Noon
- January 3, 2003 – Start of Day
- February 3, 2001 – Start of Day
- February 3, 2001 – Noon
- February 4, 2001 – Start of Day

Weekends

- Most of World: Sat + Sun
- Middle East: Fri + Sat
- Saudi Arabia: Thu + Fri

Good Dates

- Always use system setting both for formatting and parsing.
- Display using 4 digit years, and month names
 - But allow entry in users regional setting format

Calendars – First Day of Week

- Monday, Sunday, or Saturday?

Calendars - Dates

- Gregorian
 - Most widely used
- Islamic
 - Used as “default ” in Saudi Arabia
- Chinese
 - Holiday use, but not in day to day
- Hebrew
 - Mostly for religious purposes

Calendars

	Gregorian	Islamic
Type	Solar	Lunar
Days per Year	365 366 (Every 4 th , but not always)	354 355 (Every 3 rd)
Example Year	2008	1429
Days per Week	7	7
Year Base	Birth of Christ	First Hijra by Mohammed

QUOTES

Quotes

- English,
 - "Hello" (Common)

"Hello"
- Dutch, Estonian,
 - „Hello“

Quotes

- "Primary", 'Secondary'
- Except Welsh:
 - 'Primary', "Secondary"

Chinese

- Simplified
 - “Hello”
- Traditional
 - 「Hello」
 - Still commonly used in Taiwan

Guillemets / Angle Quotes

- Russian, Turkish, French, Greek,
 - «Hello», ‹Hello›
- Croatian, Czech, German (Except Switzerland),
 - »Hello«
- Finnish, Swedish
 - »Hello»

Guillemets

- Not guillemot
 - Adobe
 - Microsoft spell checker

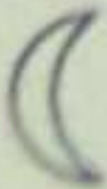
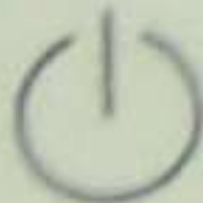
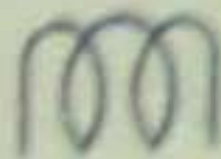
Guillemot





SYMBOLISM







PYRAM A12 L





Cultural



Images



Sample Data

Billing Address		(BILL TO)
Institution *	Shelby Memorial Hospital	
Department	Accounts Receivable	
Street *	1212 Main Street	
	Room A10-W124	
City *	Pasadena	
State/Province *	California	(U.S. or Canada)
Zip/Mail Code *	91607	US: enter ZIP + 4
Country :	USA	

Phone *	1	626	555-1212	4700
	Country	Area	Number	Ext.

Input Fields

Billing Address


(BILL TO)

Institution *	<input type="text" value="Shelby Memorial Hospital"/>		
Department	<input type="text" value="Accounts Receivable"/>		
Street *	<input type="text" value="1212 Main Street"/>		
	<input type="text" value="Room A10-W124"/>		
City *	<input type="text" value="Pasadena"/>		
State/Province *	<input type="text" value="California"/>	<input type="button" value="▼"/>	(U.S. or Canada)
Zip/Mail Code *	<input type="text" value="91607"/>	US: enter ZIP + 4	
Country :	<input type="text" value="USA"/>		

Phone *	<input type="text" value="1"/>	<input type="text" value="626"/>	<input type="text" value="555-1212"/>	<input type="text" value="4700"/>
	Country	Area	Number	Ext.

LANGUAGE SELECTION


English



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Mobile - iPhone

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Find the Weather for any City, State or ZIP Code, or Airport Code or Country



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Done



Did you catch an amazing weather moment, send us the photo
Is your car underwater?
Show us!

Please select your language

Language

- English
- Afrikaans
- Albanian
- Arabic
- Armenian
- Azerbaijani
- Basque
- Belarusian
- Bulgarian
- Burmese
- Catalan
- Chinese - Simplified
- Chinese - Traditional
- Croatian
- Czech
- Danish
- Dhivehi
- Dutch
- English
- Esperanto

Are we

The Weather Underground uses volunteers to translate the website into many languages. If you can fix the translations, or add a new language please visit our [Help Section](#) for information on how to do this.

Are you frustrated

Please visit our [Help Section](#) for information on how to do this.

Please Visit Our Sponsors:

Flags



CLICK ON A FLAG TO SELECT YOUR LANGUAGE AND SKIP INTRO

Native Scripts

[Kudzu World](#)

[English](#) - [Română](#) - [Русский](#) - [عربي](#)

Kudzu World

Welcome to my strange corner of the web!

Kudzu World is my public web page which contains articles, reviews, and other musings of technical, kudzu, and other content. Much of the content is specific to software development, however for you non software developers do not let that scare you away. There is a lot of other content as well. To find what you are looking for, you can use the menus on the right throughout the site.

Dual Scripts

The screenshot shows the Blogger 'Language Selection' interface. At the top, the Blogger logo and 'Push-Button Publishing' text are visible. The main heading is 'Language Selection'. Below it, a label 'Choose your language:' is followed by a dropdown menu currently set to 'English'. An orange 'SAVE SETTINGS' button is on the left, and a blue 'CANCEL' button is on the right. A list of languages is displayed in a scrollable area, with 'English' highlighted. The footer contains links for 'Home', 'Terms of Service', 'Bloggers', and 'Gear', along with the copyright notice '© 1999 - 2008 Google'.

Blogger™ Push-Button Publishing

Language Selection

Choose your language: English

SAVE SETTINGS **CANCEL**

- Arabic — العربية
- Bulgarian — български
- Catalan — Català
- Chinese (Simplified) — 中文(简体)
- Chinese (Traditional) — 中文(繁體)
- Croatian — Hrvatski
- Czech — čeština
- Danish — Dansk
- Dutch — Nederlands
- English**
- English (UK) — English (UK)
- Filipino — Filipino
- Finnish — suomi
- French — Français
- German — Deutsch
- Greek — Ελληνικά
- Hebrew — עברית
- Hindi — हिन्दी
- Hungarian — magyar
- Indonesian — Indonesia

[Home](#) [Terms of Service](#) [Bloggers](#) | [Gear](#)
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PRODUCT NAMES



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KONA

www.english.com



Mitsubishi Pajero



En Español: Mitsubishi Montero



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WHO REPRESENTS...?

Name:

search

20 Items [Advanced](#)

Enter the name of an ACTOR and then click 'search' Example: Jude Law or Jude L or Law

Top Searches

- . Paris Hilton
- . Brad Pitt
- . Angelina Jolie
- . Jessica Alba
- . Jessica Simpson
- . Reese Witherspoon
- . Britney Spears
- . Justin Timberlake
- . Beyonce Knowles
- . Tom Cruise

WHO IS REPRESENTED BY...?

Name:

search

20 Items

Enter the name of an AGENT, MANAGER, PUBLICIST or ATTORNEY and then click 'search' Example: A Emanuel or Ari Eman or Emanuel

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- . Britney Spears
- . Justin Timberlake
- . Beyonce Knowles
- . Tom Cruise

WHO IS REPRESENTED BY...?

Name:

search

20 Items



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popular categories

Dating | Cars | Entertainment | Education | Jobs | Finance | Internet | Electronics | Business | Travel | Legal

NUMBERS

Numbers

- Common
 - Arabic
 - Hindi
- Uncommon
 - Chinese
 - Japanese
- Novelty
 - Roman

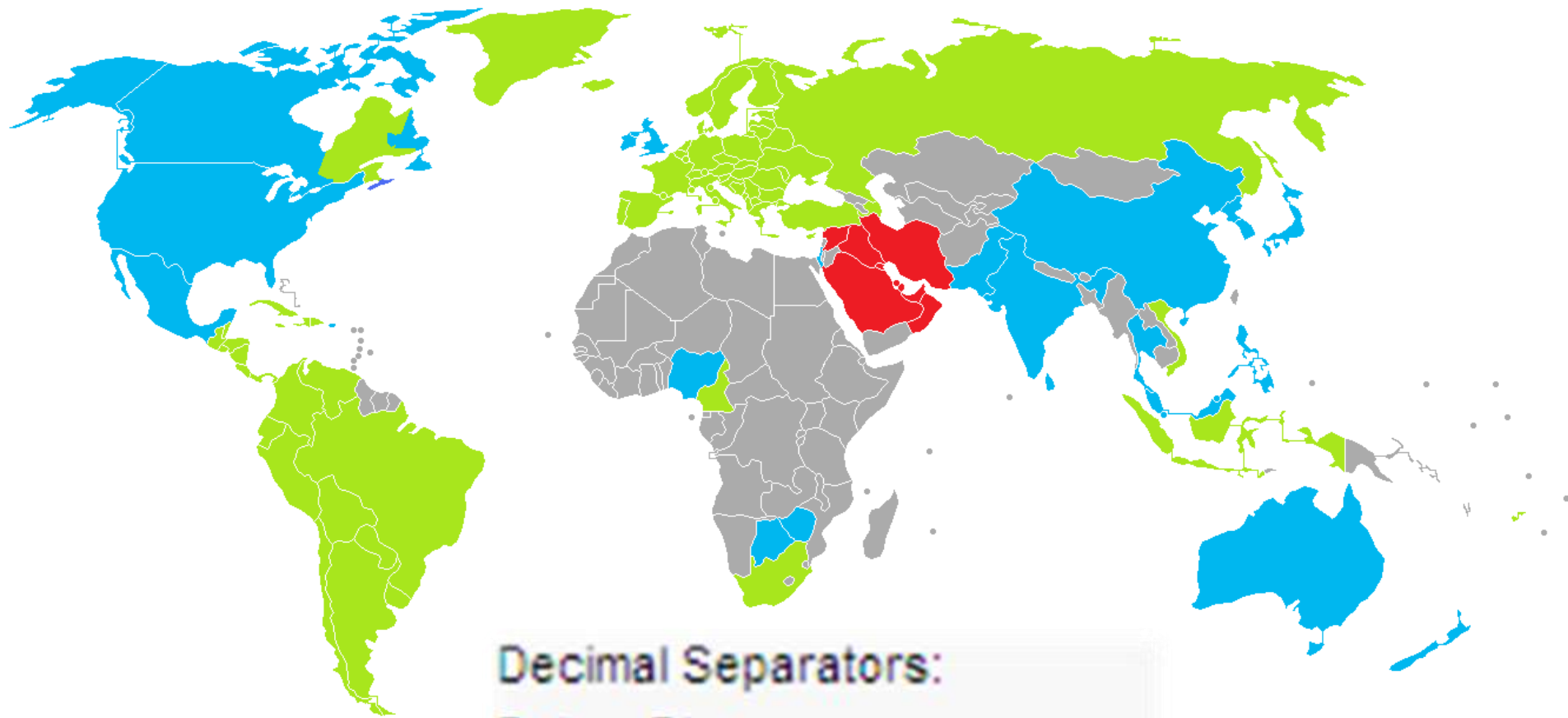
Numbers

European	0	1	2	3	4	5	6	7	8	9
Arabic-Indic	٠	١	٢	٣	٤	٥	٦	٧	٨	٩
Eastern Arabic-Indic (Persian and Urdu)	۰	۱	۲	۳	۴	۵	۶	۷	۸	۹
Devanagari (Hindi)	०	१	२	३	४	५	६	७	८	९
Tamil		௦	௧	௨	௩	௪	௫	௬	௭	௮

12,000 vs. 12.000

- 12000 or 12 ?

12,000 vs 12.000



Decimal Separators:

Dot — Blue

Comma — Green

Non-Arabic Numerals — Red

Unknown — Grey

Much of Europe

- 1 234 567,89
- 1.234.567,89

Switzerland

- 1'234'567,89

China

- Grouping is every 4, not 3
- 123,4567.89

India

1	One
10	Ten
100	Hundred
1,000	Thousand
10,000	Ten Thousand
1,00,000	Lakh
10,00,000	Ten Lakhs
100,00,000	Crore
10,00,00,000	Ten Crores
100,00,00,000	Hundred Crores
1,000,00,00,000	Thousand Crores
10,000,00,00,000	Ten Thousand Crores
1,00,000,00,00,000	One Lakh Crores





































Effects

- Ambiguous display
- Refusal of input
- Crashes
 - Often used in interop
- Failed installations

Billion

Value	Value Expanded	Short Scale	Short Scale Logic	Long Scale	Long Scale Logic
$10^0 =$	1	one	$1,000^{1 \cdot 1}$	one	$1,000,000^{0.0}$
$10^3 =$	1,000	thousand	$1,000^{1+0}$	<i>thousand</i>	$1,000,000^{0.5}$
$10^6 =$	1,000,000	million	$1,000^{1+1}$	million	$1,000,000^{1.0}$
$10^9 =$	1,000,000,000	billion	$1,000^{1+2}$	<i>thousand million</i> (or <i>milliard</i>)	$1,000,000^{1.5}$
$10^{12} =$	1,000,000,000,000	trillion	$1,000^{1+3}$	billion	$1,000,000^{2.0}$
$10^{15} =$	1,000,000,000,000,000	quadrillion	$1,000^{1+4}$	<i>thousand billion</i> (or <i>billiard</i>)	$1,000,000^{2.5}$
$10^{18} =$	1,000,000,000,000,000,000	quintillion	$1,000^{1+5}$	trillion	$1,000,000^{3.0}$
$10^{21} =$	1,000,000,000,000,000,000,000	sextillion	$1,000^{1+6}$	<i>thousand trillion</i> (or <i>trilliard</i>)	$1,000,000^{3.5}$

Long Scale Countries

 Argentina (<i>mil millones, billón</i>)	 Italy (<i>miliardo, bilione</i> ^[14])
 Austria (<i>Milliarde, Billion</i>)	 Lithuania (<i>milijardas, </i>)
 Belgium (French: <i>milliard, billion</i> ; Dutch: <i>miljard, biljoen</i> ; German: <i>Milliarde, Billion</i>)	 Mexico (<i>mil millones, millardo, billón</i>)
 Canada (French-speaking: <i>milliard, billion</i>)	 Netherlands (<i>miljard, biljoen</i>)
 Chile (<i>mil millones, billón</i>)	 Norway (<i>milliard, billion</i>)
 Colombia (<i>mil millones, billón</i>)	 Paraguay (<i>mil millones, billón</i>)
 Costa Rica (<i>mil millones, billón</i>)	 Peru (<i>mil millones, billón</i>)
 Croatia (<i>milijarda, bilijun</i>)	 Poland (<i>miliard, bilion</i>)
 Czech Republic (<i>miliarda, bilion</i>)	 Portugal (<i>mil milhões or milhar de milhões, bilião</i>)
 Denmark (<i>milliard, billion</i>)	 Romania (<i>miliard, </i>)
 Dominican Republic (<i>mil millones, billón</i>)	 Serbia (милијарда <i>milijarda</i> , Билион <i>bilion</i>)
 Ecuador (<i>mil millones, billón</i>)	 Slovakia (<i>miliarda, bilión</i>)
 Finland (<i>miljardi, biljoona</i>)	 Slovenia (<i>milijarda, bilijon</i>)
 France (French: <i>milliard, billion</i> , Catalan: <i>miliard</i> or typ. <i>mil milions, bilió</i>)	 Spain (Spanish: <i>millardo</i> or typ. <i>mil millones, billón</i> , Catalan: <i>miliard</i> or typ. <i>mil milions, bilió</i>)
 Germany (<i>Milliarde, Billion</i>)	 Sweden (<i>miljard, biljon</i>)
 Guatemala (<i>millardo, billón</i>)	 Switzerland (French: <i>milliard, billion</i> ; German: <i>Milliarde, Billion</i> ; Italian: <i>miliardo, bilione</i>)
 Hungary (<i>milliárd, bilió</i> or <i>ezer milliárd</i>)	 Uruguay (<i>mil millones</i> or <i>millar, billón</i>)
 Iceland (<i>milljarður, billjón</i>)	 South Africa (Afrikaans: <i>miljard, biljoen</i>)

WEIGHTS AND MEASURES

Units



Weight	Kilogram	•Kilogram •Pound	Pound
Volume	Liter	•Litre •Imperial Gallon (4.6 Litres)	American Gallon (3.8 Liters)
Distance	Kilometer	•Kilometre •Mile	Mile

It is common in China to use its own set of measurements in weights.

CURRENCY

More than \$

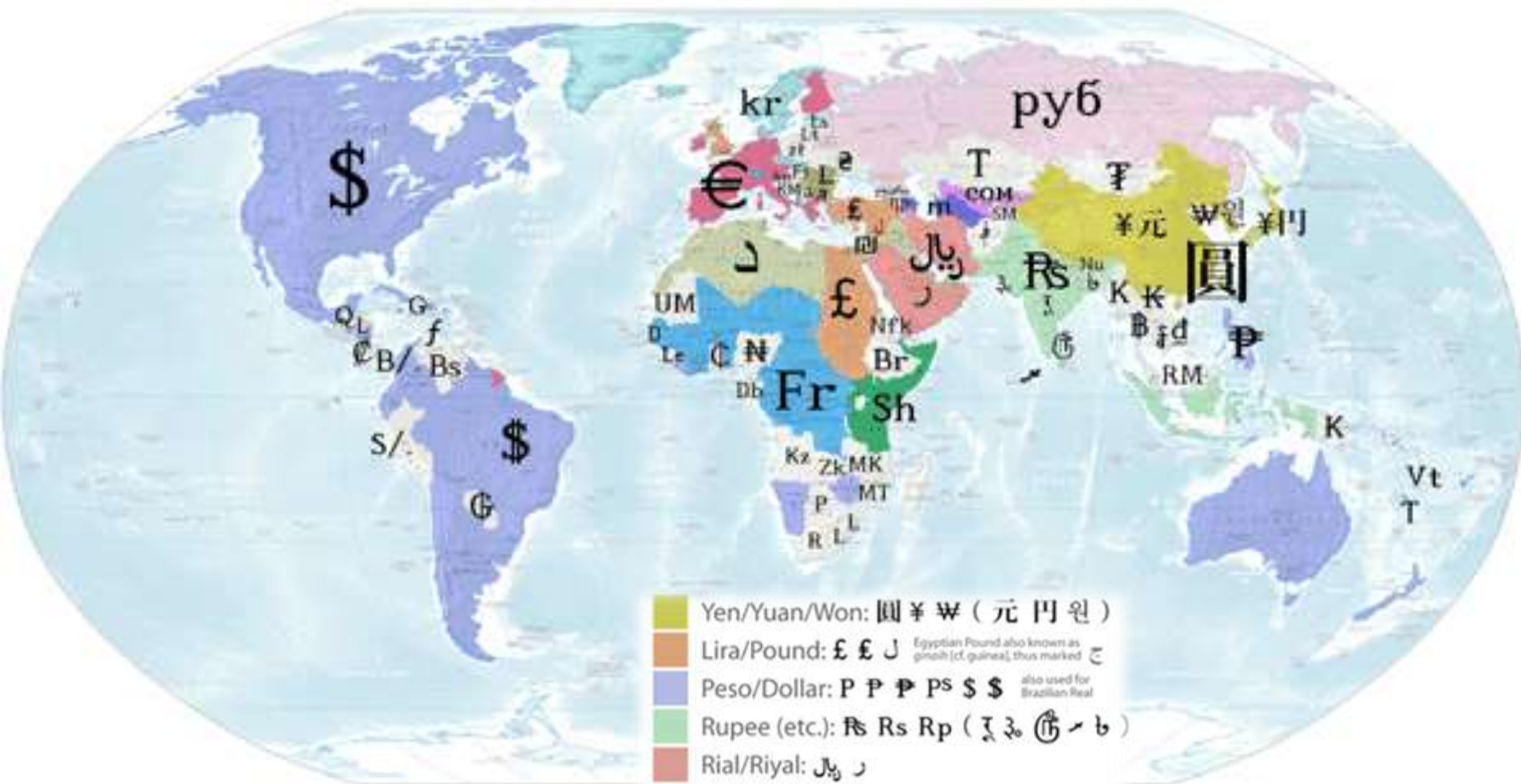
- And not just \$ € £

B · C · ċ · Ċ · B/ · ∂ · € · f · G · Kĉ · K · Ł · Ɣ · m · ₧ · ₧ · P · R · RM · Rs · pyō · Sk · √ · S/ · Ƨ · RS · S
 · 𐄌 · 𐄍 · 𐄎 · 𐄏 · 𐄐 · 𐄑 · 𐄒

\$ is not always USD

- US Dollar (USD)
- Canadian Dollar (CAD)
- Australian Dollar (AUD)
- Singapore Dollar (SGD)
- East Caribbean Dollar (XCD)
 - 6 countries + 2 territories
- Some African Nations
-





- Yen/Yuan/Won: 圓 ¥ ₩ (元 円 원)
- Lira/Pound: £ £ ₤ Egyptian Pound also known as gineh [cf. guinea], thus marked ₤
- Peso/Dollar: ₱ ₱ ₱ ₱ \$ \$ also used for Brazilian Real
- Rupee (etc.): ₨ Rs Rp (₨ रु ரூപ)
- Rial/Riyal: ﷼ ر
- Dinar: ₭ Д
- Franc: Fr F
- Euro: €
- Krona (etc.): kr k
- Shilling: Sh
- Rubles: руб
- Leu/Lev: L л
- Manat: m
- Som: com

Placement

USD

Euro

\$ 12.00

€ 12,00

12.00 \$

12,00 €

Euro

- Officially: € 12.00 or € 12,00

€ 12.00

Cyprus
England
Iceland
Ireland
Malta

12.00 €

None

€ 12,00

Denmark
The
Netherlands
Austria

12,00 €

Bulgaria
Czech Rep.
France
Finland
Germany
Greece
Hungary
Italy
Latvia

Lithuania
Portugal
Romania
Russia
Serbia
Slovakia
Slovenia
Spain
Sweden
Ukraine
Norway
Poland



More Placement

- Placed in decimal position
 - Portuguese Escudo: 50\$00
 - French Franc: 12F34
- Neither are in use today

Decimal Places

- Not all currencies use 2 decimal places:
 - € 12.00
- Jordanian Dinar
 - 12.000
- Others use 4



Digit Placeholders

- How big?
 - Surely a million Euros / Dollars / Pounds is enough?

250000000

RESERVE BANK OF ZIMBABWE

250000000



Pay the bearer on demand
**TWO HUNDRED AND
FIFTY MILLION
DOLLARS**

on or before
31st December 2008

for the Reserve Bank of
Zimbabwe

Issue date: 2nd May 2008


Dr. G. Gono
Governor

250000000

BEARER CHEQUE

02022903

AA1199602



IDENTIFYING STRINGS

Program Files

- C:\Program Files\
 - C:\Archivos de programa\
 - XP
 - Localized
 - Vista
 - Stored in English, but display is Localized

Everybody, Guest

- Installations often make use of system accounts.
- But in Norwegian they are:
 - Alle brukere
 - Gjest

Microsoft Office VBA

- In older versions of Windows, VBA commands were localized
- English VBA programs could not run on French Office, etc.

meeting the **mibuso** community

mibuso.conference

Thank you
for your
attention

Chad Hower aka Kudzu
www.woo-hoo.net

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