

# Web 2.0 Strategy

Peter Rowley, York University

&

Kathy Scardellato,  
Ontario Council of University  
Libraries

# Group Therapy

Globe and Mail Update

January 17, 2008 at 9:12 AM EST

Each week, Group Therapy offers up a problem for our readers to weigh in on. We then publish the most lively responses, with a final word on the matter delivered by our columnist, Claudia Dey.

**Contribute your wisdom** to next week's question by sending an email to [grouptherapy@globeandmail.com](mailto:grouptherapy@globeandmail.com).

## Next week's question

**A reader writes:** My ex-girlfriend was molested by her father when she was 11 or 12. She left home at 17 and has remained estranged from her father and, indeed, the rest of her family. She has never come to terms with what her father did and suffers



or do to help her make a decision:

**Or, submit your own dilemma** to [grouptherapy@globeandmail.com](mailto:grouptherapy@globeandmail.com) to get advice from

a panel of readers, plus Claudia Dey's final word.

Don't be shy: We won't publish your name if you submit a question.

STYLE



### Hit or miss? [↗](#)

We'll do the trendspotting each week, then let you have your say 12:00 AM [↗](#)

YOUTUBE WINE GURU


### A subtle hint of 'Big League Chew'



Beppi Crosariol  
»  
On the Thunder Show, Gary


Home Auto Small Business Technology Travel

LIVE, 1 P.M. EST



Where to take your portfolio next

LIVE, 1 P.M. EST



Discipline and teenagers: What to do?

# Last night a DJ saved my work productivity

**CRAIG SILVERMAN**

From Monday's Globe and Mail

January 21, 2008 at 12:20 PM EST

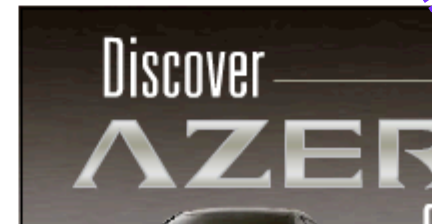
A professor of music in Britain wants workplaces the world over to use music to create happy and productive employees. "There's clear evidence that a happy work force is a productive one, and the easiest way of raising the spirits in the office is to put on the radio or a CD," professor Richard McGregor of the University of Cumbria told The Scotsman. But not just any old music will do. Prof. McGregor cautions against sounds such as *Anarchy in the UK* by the Sex Pistols, *Fight the Power* by Public Enemy,

Print E-mail  
Share License

## JOIN THE CONVERSATION

This conversation is **semi moderated**

Start a conversation on this story



# Super carrots to the rescue

**PAUL TAYLOR**

ptaylor@globeandmail.com

E-mail Paul Taylor | [Read Bio](#) | [Latest Columns](#)

January 18, 2008 at 10:43 AM EST

A "super" carrot, packed with bone-building calcium, could eventually be headed to your dinner plate.

It's all part of a plan to boost the nutritional content of a wide variety of fruits and vegetables through genetic engineering. Scientists hope the fortified veggies could aid in the prevention of certain diseases. For instance, the extra calcium in a genetically modified carrot might help guard against osteoporosis, a brittle-bone disease that puts people at risk of debilitating breaks and fractures.

Print E-mail Comments (5)  
Share License Text Size

## JOIN THE CONVERSATION

This conversation is **semi moderated**

**5 reader comments** | Join the conversation

- What's the matter with real carrots? I would not buy...
- Check out the following:<http://www.milksucks.com/milkKills...>
- Check out the following:  
<http://www.milksucks.com/milkKills...>
- Odd, previous comment deleted without any nasty comments...



## Live to Regret

Six Canadians share their stories

▶ PLAY

00:00 / 00:00



### GLOBE READERS SHARE THEIR REGRETS >>

My only regret is not showing enough appreciation and love for my immediate family and husband.

I wish I had spent more time with my son before he left.

My main regret: Turning a blind eye to my own mistakes

I regret nothing... I have learned too much to have any regrets

big or small, feeling of needing... our regrets are a part of who we are. Share yours here  
09/05/07 1:35 PM 63

### Harbouring regret

Frank Warren spends his days collecting postcards with intimate messages, including people's deepest regrets, scrawled on them  
09/05/07 4:09 PM

In Pictures: Postcards of regret

ReportonBusiness.com  
Canada's new financial supersite



# Super comment

**PAUL TAYLOR**  
ptaylor@globeandmail.com  
Latest comment

Part of a plan to  
[article](#)

**THIS CONVERSATION**  
[comment?](#)

[Post a comment](#)

**anonymouse Z**  
foods forced on  
be good for some  
daily. Actually, m  
a little bit sensib  
Posted 18/01/08

**Brian Broda from Toronto, Canada writes:** Oaa, previous comment deleted without any nasty comments....

The whole thing about GM crops is that they are not tested. The effects on other crops and other flora and fauna are not known.

## WHAT DOES MODERATION MEAN?

close

The Globe and Mail is committed to encouraging intelligent discourse among our readers and to creating a forum where diverse views and opinions on a wide range of topics can be aired. In our continuing efforts to facilitate a dynamic online conversation we have created two distinct types of forums.

The first type of conversation is a semi-moderated or reactively moderated conversation. Comments submitted to a semi-moderated conversation pass through a filter that automatically detects inappropriate language or other issues. The comment then appears on the website.

The second type of conversation is fully moderated. In a fully moderated conversation, every comment is reviewed by a Globe and Mail editor before it appears on the site. While we will attempt to publish as many comments as possible there will be occasions where the volume of comments makes it impossible to publish every appropriate submission. Only registered users of the site may contribute to an online conversation and in all cases the policy described in our Editor's note must be followed.

E-mail

Share

Text Size

**THE GLOBE AND MAIL**  
Imagine where it can take you.

## TOP LIFE STORIES

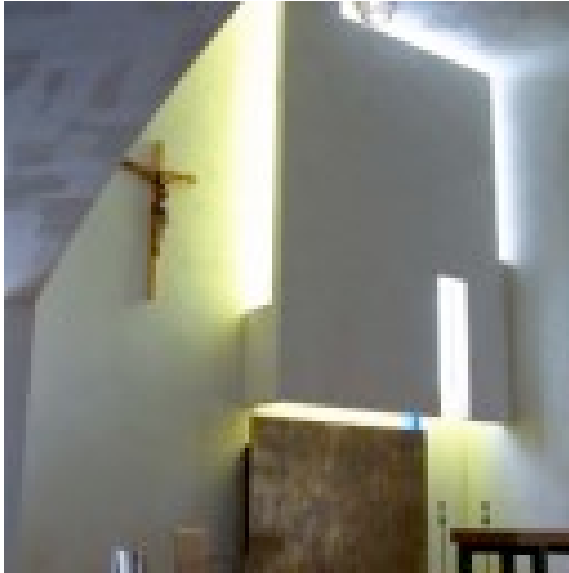
- [A subtle hint of 'Big League Chew'](#)
- [Cold meds offer little or no relief](#)
- [Toddler death puts South Asian community on edge](#)
- [Go to the Life section](#)

## TOP STORIES BY SECTION



# Pattern Languages

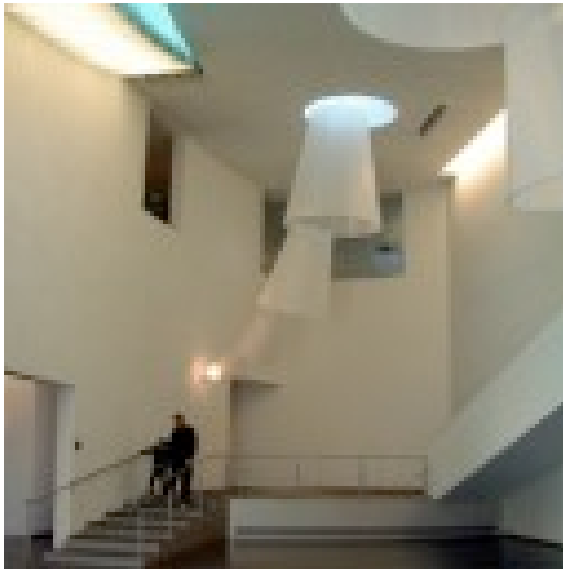
- A concept introduced in the late 1970's by Christopher Alexander, an architect, as a way of helping people address problems in civil and architectural design
- “A Pattern Language: Towns, Building, Construction”, Oxford University Press, USA, 1977.
- “The Timeless Way of Building”, Oxford University Press, USA, 1979.
- Both are still in print



## Light

Cloudiness or northern exposures result in diffuse lighting that lessens shadow. It also lessens our perception of depth, both when it comes to large-scale forms and small-scale textures.

Soft, diffuse or warm light gives a feeling of restfulness. Sharp or cool light gives a feeling of liveliness.



## Space

Depending on its size and shape, space can feel comfortably enclosing, depressingly shut in, liberatingly spacious, or so large that one feels lost in its vastness.

It is important to bear in mind that different people with different personal bubbles will experience the same space differently.

# What is a Pattern Language?

- A structured method of describing good design practices within a field of expertise, characterized by:
  - Noticing & naming the common problems
  - Describing the key characteristics of effective solutions for meeting some stated goal
  - Helping the designer move from problem to problem in a logical way
  - Allowing for many different paths through the design process

Wikipedia, 2008

# Some Pattern Languages

- Most widely used in software engineering: part of a software designer's vocabulary
- Some use in user interface design / interaction design
- Early exploration of patterns for education

# Toward a Pattern Language for Collaborative Applications

- Each pattern captures a particular aspect of a collaborative application (e.g. a blog) that advances a particular strategic goal (e.g. create a sense of community)
- Tim O'Reilly (2004): attention to an application's **architecture of participation** is a hallmark of Web 2.0 design.

(His article defining Web 2.0 is a great read.)

# Aside: Comparing Approaches to Building a Collection of Knowledge

- Option 1: Yahoo paid people to create and edit its early directory of web sites
- Option 2: The Open Directory Project (dmoz.org) organizes volunteers to construct & maintain a directory of web sites
- Option 3: Napster **automatically** assembled a large collection of music based on its users assembling their own music collections

Dan Bricklin, 2000

# Example 1: A library blog without commenting

- The blog author, a famous Canadian writer, is responsible for writing interesting blog entries, one a week.
- Each is about 100 to 200 words, visible to everyone, and not revised. They are dated and not threaded: one simply follows another.
- The blog readers, members of the public, read the blog and learn about Canadian literature from it.

## Example 2: a library blog with private commenting

- As before, the blog author writes about 100 to 200 words a week, one entry after another.
- As before, the blog readers read the blog and learn about Canadian literature from it.
- But now, in addition, **they can attach comments to any blog entry and these comments can only be seen by the author.**

# Example 3: a library blog with public commenting

- As before, a famous authors adds to a blog on a weekly basis.
- Now, blog readers can attach comments to any blog entry **or previous comment and these comments can be seen by everyone**. The comments are dated and not threaded.

# Example 4: a library blog with public commenting and rating

- As before, the famous author adds to a blog weekly.
- As before, readers can attach comments to any blog entry or previous comment and these comments can be seen by everyone. **Now, anyone can rate any entry or comment with a score from 0 (not helpful) to 5 (very helpful).**

# Discussion: Comparing the four collaborative applications

- Which will cause the readers to have their understanding of Canadian literature deepened the most and why?
- Which will cause the readers to read the most Canadian books and why?
- Which will give the readers the strongest sense of community and why?

# Patterns within the collaborative applications

- Pattern: High-quality content
  - Goal: provide high-quality content
  - Approach: have an expert in a field contribute content on a regular basis
- Pattern: Diversity of opinions
  - Goal: provide content that reflects diverse opinions
  - Approach: have members of the public contribute their own thoughts into a public space

# Patterns within the collaborative applications

- Pattern: Basic Community
  - Goal: create a sense of community
  - Approach: before a sense of community can be created, the community must know that its members exist, so present evidence, e.g. contributions with different names

# Patterns within the collaborative applications

- Pattern: Collaborating Community
  - Goal: create a sense of community
  - Approach: a stronger sense of community can be supported by showing that the community is constructing a shared object of value, e.g. a collaborative exploration of issues in a particular area **as supported by public commenting**

# Patterns within the collaborative applications

- Pattern: Widespread participation
  - Goal: increase the percentage of participants who are contributing to the construction of the shared artifact
  - Approach: lower the barrier to contribution by providing low-effort options such as anonymous rating (ideally with a single click) and lower-risk options such as private commenting

# Patterns within the collaborative applications

- Pattern: Deepen learning
  - Goal: deepen learning, to increase depth of understanding and retention period
  - Approach: encourage active processing of material presented, e.g. by writing something, such as a comment, based on it

# Which patterns apply to which applications?

Blog with...	High quality content	Diversity of opinions	Basic community	Collab'g community	Wide part'n	Deep learning
No commenting	X					
Private commenting	X				X	X
Public commenting	X	X	X	X		X
Commenting & rating	X	X	X	X	X	X

# Discussion: Comparing the four collaborative applications

- Which will cause the readers to have their understanding of Canadian literature deepened the most and why?
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Time

Identity

Fun



## Fun & Toronto

**LOUD**

[Kid's Life](#)

[Games and Giggles](#)

[Sports & Rec](#)

[Explore Toronto](#)

[Famous Toronto](#)

[Kids and the Library](#)

[Contests](#)

Your Say!

Send it to us today!



## Your Say!



### Your Say!

#### Type of Message

- Comment
- Tell a Joke
- Review a Book
- Review Music
- Review a Movie
- Review a Website



#### Your Info

\*First Name:

Email:



### Questions? Answers!

#### Fun Fact

**Caught in the Trap**  
The play 'The Mousetrap' by Agatha Christie played for 28 consecutive years at the Toronto Truck Theatre. It became Canada's longest running show.

RELOAD

\*First Name:

Email:

City:

Country:

\*Age:

#### Your Message

Subject:

\*Message:



We may post your comments, so be sure and ask your parents for permission before you

Send it to us today!

Send an  
Ecard!



Questions?  
→ Answers!

#### Fun Fact

**Flying Fourth**  
Lester B. Pearson  
International Airport  
is the fourth largest  
international airport  
in North America.

RELOAD

Sandra, 10 turning 11

This is in response to Jacko's message. Bullying is a huge topic! It makes people scared and intimidated. People shouldn't be bullied because it is mean, and maybe you have not gotten bullied before but loads of kids are getting bullied and that is the truth. Whether it is cyberbullying, or bullying at school, it is an issue!!!

a person, 12

Jacko, how are u gonna find a cure for bullying. Cures won't help. You have to tell the teacher or principal. Really u r saying that a cure can stop a bully from bullying. NOT! The bully won't stop but if u tell the principal the bully will stop cuz this is the principal I'm talking about. Bullying can stop if u tell and think about wat u r gonnna do about it!!!

Sara, Toronto, 11

The library is a good place to do your homework .Not when people are screming and shouting. you want peace.

Hamnah, Toronto, 10

why do people have to bully? well this is the answer may be they like you or maybe because they think that you are a pipsqueak. maybe bullies think that they are tough when they arent even

dont give them space. you guys are just walking away.when you do that they all get stronger and tougher. they will think that you are a scared. so dont dare walk away isnt going to solve your problem. if you see someone that is getting bullied dont walk away help them. tell the teacher. go stand up for them. that is all i have to say. it is your decision to let them bully you or someone else!

help them

Jythika, Toronto, 10

You know what, The topic of bullying is stupid. Saying like 'Haha, your fat.' or 'Only boys can play at this...' is considered bullying. We take bullying too seriously, and even something serious happens, no one will care. Tell the teacher? Our teacher says ' Be a man, stand up to them...' Is that helpful? NO!

We've got to spent our time and money on more resourceful or productive things, not like finding cure to bullies

Jacko, Toronto, 13 ¼

HI, omg u should tell the teacher or some other adult u trust! Why is this 10th grader bullying u anyways!!!!?? Or maybe u should stand up to him/her but i know that can be hard..... i got bullied myself..... tell someone!!!

Aisha, 12

i get bullied evry day bi a 10th grader. im scard. i need sum advise. shood i tel the teechr or shood i keep it in ??

Anonymous, Ottawa, 12

I just want 2 respond 2 pearl's comment. Bullying can stop if u tell the teacher or the principal and PEARL it could stop. buling can stop if u tried to do somthing 4 example student crime stoppers or conflict

# The trouble with teens

Globe and Mail Update  
July 24, 2007 at 12:34 PM EST

## Related Articles

From the archives

- [I am not your slave ... I think](#)
- [Get your teen off the couch](#)
- [Teens talking back? Just ignore them](#)
- [Do teens tell the truth?](#)



RECOMMEND THIS ARTICLE?  125 votes

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If your teen is driving you nuts, you've come to the right place. Every two weeks, clinical psychologist Anthony E. Wolf offers advice on how to deal with your teen. Send your dilemma to [awolf@globeandmail.com](mailto:awolf@globeandmail.com). (We won't publish your name.)

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AgriLife  
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Send an  
Ecard!



Questions?  
→ Answers!

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help them

# My boyfriend's a cheapskate

**DAVID EDDIE**

From Friday's Globe and Mail

Latest comment posted at 7:43 PM EST 26/01/08

How do I convince him of the error of his ways without getting his back up? ...[Read the full article](#)

**THIS CONVERSATION IS SEMI-MODERATED** [What is moderation?](#) | [How do I report a comment?](#)

[Post a comment](#) | [Skip to the latest comment](#)

**anonymouse Z from Canada writes:** Sorry, the guy IS cheap if he is taking the half bottle of Perrier from the fridge. I doubt if any happiness can come out of this in the long run if you are already embarassed by this to the extent where you are arguing about this for several days.

My father is thrifty - he doesn't spend much on himself, he will buy generics etc. But that has never extended to gifts he takes when he goes to someone's home. It has also never extended to counting pennies when he goes to a restaurant with friends/family. To him, friends and family come before money.

Posted 25/01/08 at 11:50 AM EST | [Alert an Editor](#) | [Link to Comment](#)

**Cameron Reid from Toronto, Canada writes:** Taking back a bottle of wine you brought to someone else's house (especially someone you don't know well)-wow- the mind boggles.

If he doesn't understand the level of social faux-pas he's committed, there may be no hope for him.

**tiffany poledancer from dusty city, Saudi Arabia writes:** I know I should take these articles lightly but I really believe another piece of prose with an underlying theme of gender vs gender is counter-productive.

The idea of generalizing women's penchant for free-spending male partners in dating and life really does no one any good. We all get the gender differences that are trumpeted in the G and M all week long.

CTS

000000

Posts: 68  
Registered:  
Aug 4, 2003

**Mac mini / Imac tradeoffs**

Posted: Jan 30, 2008 7:25 AM



Reply



Email

I'm thinking of buying a mac mini because I really dislike the glossy screen on the imac (and I have reservations about all-in-one machines; if the screen dies I don't want to have to toss the computer, and vice versa).

So here's what I gather I would lose:

It's harder to upgrade ram on the mini. (I think I'm up to the task.)

It won't run a screen larger than 24" because of the lack of a graphics chip, or the right kind of output, or something. (That seems okay: 24" is pretty big.)

It's a little slower, overall.

What else do I lose?

Can you run two screens off the mini?

What are the real-world performance differences?

FYI, I do some modest video editing, but spend most of my time writing, using the web, spreadsheets, etc. No gaming.

imac G4 15 / ibook g3 12 Mac OS X (10.3.x)



# Some time patterns

- Time Compression
  - Goal: make the community look active
  - Approach: remove time/date data that would make the community look quiet
- Time Limits
  - Goal: encourage contribution
  - Approach: set a time limit to the discussion so procrastinators contribute and announce it with a “warning bell”

# An identity pattern

- Balance Privacy & Identity
  - Goal: Humanize a conversation by allowing the reader to imagine the participants, while not revealing too much information about them
  - Approach: Only display information that readers would care about, e.g. age, first name, city, which Macintosh they have

# Identity

- Rolling Stones, The Last Time, 1965
- Andrew Oldham Orchestra cover of The Last Time
- The Verve, Bitter Sweet Symphony, 1998
- Jay Z, Dirt Off Your Shoulder
- Anonymous, Bittersweet Dirt Off Your Shoulder

LOL

# “zygotic social networking”

- The 7<sup>th</sup> Annual Year in Ideas, The New York Times, Dec, 9, 2007
- Goodbye Facebook, hello cheek swabs, The Globe and Mail, Jan 17, 2008



http://www.genetree.com/

ger



## Welcome

# Connect

- **GeneTree** lets you safely connect
- With your **current family**
- To people with **common ancestors**
- It's **safe and easy**



## Members

Username:

Password:

[Log in](#)

[Forgot password or username?](#)

## Sign Up

Join now and discover your world family through DNA, connect with others to share and preserve family memories.

[Join now - It's FREE](#)

## Site Features



Discover



Share



Connect



Preserve

Featured on:



**NIGHTLINE**

[View Story](#)



http://www.genetree.com/



genetr



## Welcome

# Discover

- **GeneTree** uses your **DNA** to **unlock** mysteries in your past
- **Discover** your deepest ancestral roots
- **Discover** living relatives you've never known
- **It's safe and easy**



## Members

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Password:

[Log in](#)

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## Site Features



Discover



Share



Connect



Preserve

Featured on:



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[View Story](#)

## Welcome

# Share

- **GeneTree** makes it easy to share your photos and videos
- **Upload photos** on home pages for your ancestors
- **Share** family memories as they happen
- **It's safe and easy**



## Members

Username:

Password:

[Log in](#)

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Join now and discover your world family through DNA, connect with others to share and preserve family memories.

[Join now - It's FREE](#)

## Site Features



Discover



Share



Connect



Preserve

Featured on:



**NIGHTLINE**

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## Welcome

# Preserve

- **GeneTree** uses the power of the web
- Extract **hidden family history**
- **Preserve** all for future generations
- It's **safe and easy**



## Members

Username:

Password:

[Log in](#)

[Forgot password or username?](#)

## Sign Up

Join now and discover your world family through DNA, connect with others to share and preserve family memories.

[Join now - It's FREE](#)

## Site Features



Discover



Share



Connect



Preserve

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## Sign up now - You belong here

Join now and start making connections, sharing your photos and video. Preserve your family history and create your own profile. Fill out the short form below to get started.  
(All fields are required to sign up.)

First name

Last name

Gender

Date of Birth

Email

Email confirmation

Username

*2 to 22 letters, numbers, underscores only.*

Password

*Must be 6 to 40 characters long.*

Password confirmation

I agree with the [Privacy Policy](#)

### Easy as 1-2-3

Sign up and create  
your own profile



Discover and  
Connect to others  
through DNA



Share and  
Preserve your  
family memories



baby

Castleton



discover your genome at 23andMe [order now](#)

1866: Gregor Mendel discovers the laws of inheritance.  
200,000 years ago: *Homo sapiens* walks the Earth.      2003: The Human Genome Project maps a single person's genome.

## 2007: 23andMe introduces the first Personal Genome Service.

Unlock the secrets of your own DNA. Today.

175,000 years ago: The mother of all present-day humans is born in Africa.  
1953: Watson and Crick uncover the double-helix structure of DNA.

Welcome to 23andMe, a web-based service that helps you read and understand your DNA. After providing a saliva sample using an at-home kit, you can use our interactive tools to shed new light on your distant ancestors, your close family and most of all, yourself.

**news** **What's new at 23andMe**

- Jan 22, 2008:** 23andMe now available in [Canada and Europe](#).
- Jan 18, 2008:** 23andMe launches its blog, [the spittoon](#).



1. **Build Your Order**
2. Consent and Waiver
3. Payment
4. Shipping
5. Review

## build your order

Welcome to the 23andMe Store. Please enter the full name of each person for whom you are ordering below. The saliva collection kits will arrive individually labeled with the names you enter.

### Order Form

First Name	Last Name	Optional E-mail
------------	-----------	-----------------

You have not added any kits yet. Click the button below to add a kit for someone.

[Add a Person to Your Order](#)

### Order Summary

Kits in Order: **0 kits**

Price per Kit: \$999.00 USD

Subtotal: **\$0.00 USD**

Shipping Country:

Shipping/Handling:

Total Price: **\$35.00 USD**

- Up to five kits per order.
- One shipping address per order.
- Kits normally ship within one business day.
- Results available 4-6 weeks after sample submission.
- Using kits with [infants and toddlers?](#)
- See our [refund policy](#).
- For assistance, please e-mail [help@23andme.com](mailto:help@23andme.com).



2008-01-24

Add at least one person to your order before continuing.

[Continue to Consent](#)

discover your genome at 23andMe [order now](#)

- gene journal
- ancestry
- family inheritance
- genome labs
- how it works
  - Take a Product Tour
  - Our Genotyping Process
- Questions
  - How does 23andMe genotype my DNA?
  - What is the difference between genotyping and sequencing?
- More Info

# take a tour

Genes related to regulating your internal clock

For this set of genes, Ian Mendel inherited 2 genes from Fred Mendel and 9 from the paternal grandmother.

For this set of genes, Ian Mendel inherited 6 genes from Ron Fisher and 5 from Margo Fisher.

[Recalculate](#)



**ORDER**

Order your DNA Test Kit



**TEST**

Acquire your DNA sample



**SEND**

Return your DNA Test Kit



**DISCOVER**

Discover your Genetic Genealogy



**Get Started** ▶

Enter your [Y results](#) or [mtDNA results](#) from Family Tree DNA and others.



Learn more about DNA testing from **Megan**



**We created DNA Ancestry to help users:**

- Validate existing research
- Break through genealogical dead ends
- Discover and connect with genetic cousins
- Collaborate and expand family trees

**LEARN ABOUT GENETIC GENEALOGY**

**OVERVIEW**

Combining DNA with genealogy

**PATERNAL LINEAGE**

A test for males that can discover genetic cousins and your father's ancient ancestry

**MATERNAL LINEAGE**

Learn about your mother's ancient ancestry. Available to both females and males

**FOR THE LATEST PRODUCT NEWS, VISIT THE DNA ANCESTRY BLOG.**

**FREQUENTLY ASKED QUESTIONS**

**SEE WHAT YOUR DNA TEST MIGHT LOOK LIKE.**

## PATERNAL LINEAGE TEST RESULTS

[DNA Home](#) [Back](#)

## LEARN ABOUT GENETIC GENEALOGY

### OVERVIEW

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**FOR THE LATEST PRODUCT NEWS, VISIT THE DNA ANCESTRY BLOG.**

### FREQUENTLY ASKED QUESTIONS

**SEE WHAT YOUR DNA TEST MIGHT LOOK LIKE.**



### John Harold Doe

[View Maternal Results](#)

After reviewing your results, you can begin to compare your profile against other DNA Ancestry participants. Click the "Find Paternal Matches" button to begin.

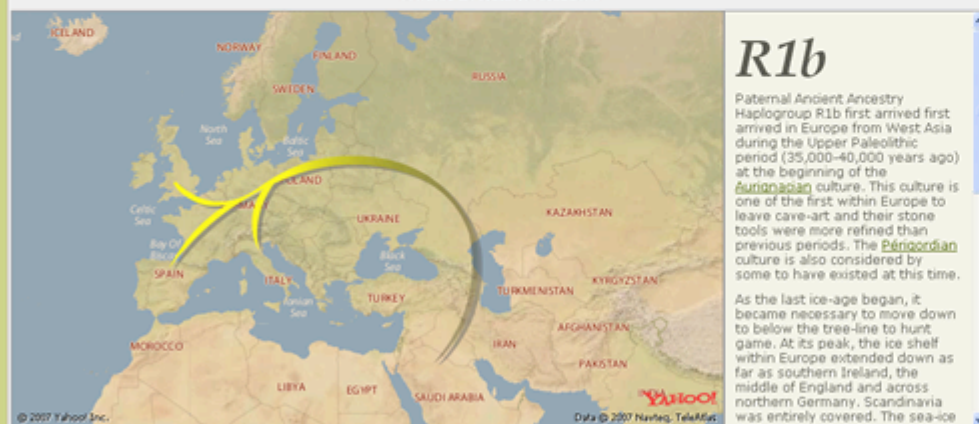
[Find Paternal Matches](#)

**Paternal Lineage Test (Y-Chromosome 46)**  
[Understanding your results](#)

 Download or print a copy of your results.

DYS19a	DYS19b	DYS385a	DYS385b	DYS388	DYS389I	DYS389II	DYS390	DYS391	DYS392	DYS393	DYS426
-	-	-	-	7	9	21	19	6	7	10	6.2
DYS437	DYS438	DYS439	DYS441	DYS442	DYS444	DYS445	DYS446	DYS447	DYS448	DYS449	DYS452
12	7	8	7	8	9	6	8	14	17	23	24
DYS454	DYS455	DYS456	DYS458	DYS459a	DYS459b	DYS460	DYS461	DYS462	DYS463	DYS464a	DYS464b
6	7	11	12	-	-	7	7	8	16	-	-
DYS464c	DYS464d	DYS464e	DYS464f	GGAAT1807	YCAIIa	YCAIIb	Y-GATA-A1C	DYS635	Y-GATA-H4		
-	-	-	-	6	-	-	9	15	8		

### PATERNAL ANCIENT ANCESTRY



Your Paternal Lineage test results include your Y-chromosome test profile, or [haplotype](#), and a prediction of your Paternal Ancient Ancestral Haplogroup. In addition to an anthropological description of your haplogroup, you will see the migration path your father's ancient ancestors would have traveled as they settled different parts of the world.

# Thanks for listening!

Peter Rowley  
York University  
prowley @ yorku.ca  
(Send me a pattern!)

Kathy Scardellato  
Ontario Council of University Libraries  
kathy.scardellato @ ocul.on.ca