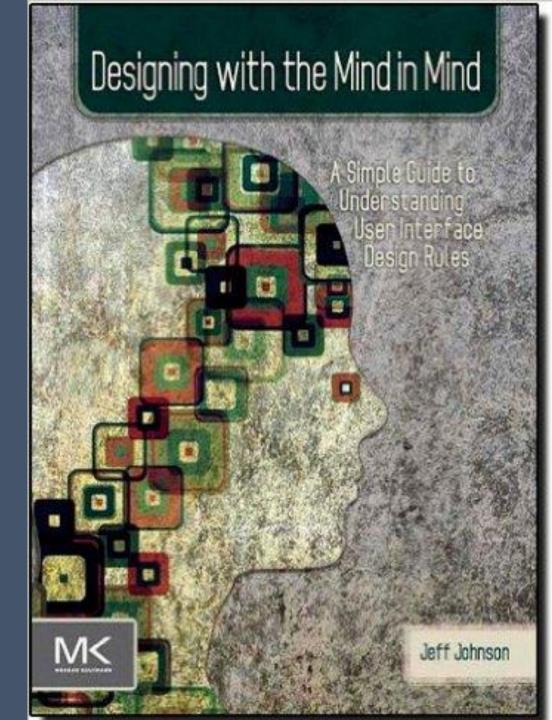
HCI: NAVIGATION AND ACCESSABILITY

Dr Kami Vaniea

First, the news...

- The Magical Number Seven, Plus or Minus Two: Some Limits on Our Capacity for Processing Information
- <u>https://en.wikipedia.org/wiki/The Magical Numb</u> <u>er Seven%2C Plus or Minus Two</u>

Many of the examples in this lecture are drawn from this book



Thursday we discussed website layout

The website to the right is an example of how structure can be used to help users scan and find information

Predatory Loans

Most mortgage professionals are trustworthy and provide a valuable service, helping you to buy or refinance your home. But dishonest or "predatory" lenders do exist and engage in practices that increase the chances of borrowers losing their homes to foreclosure. To avoid becoming a victim of predatory lending, you need to understand the process to buy a home and be a smart consumer.

What Is Predatory Lending?

Predatory lenders, appraisers, mortgage brokers and home improvement contractors could use any of these tactics to take away your home or investments:

- Sell properties for much more than they are worth using false appraisals.
- Encourage borrowers to lie about their income, expenses, or cash available for down payments in order to get a loan.
- Knowingly lend more money than a borrower can afford to repay.
- Charge high interest rates to borrowers based on their race or national origin and not on their credit history.
- Charge fees for unnecessary or nonexistent products and services.

Avoid Predatory Loans by Being a Smart Consumer

To avoid becoming a victim of predatory lending, follow these guidelines:

- Before you buy a home, attend a homeownership education course offered by a U.S. Department of Housing and Urban Development (HUD)-approved, non-profit <u>counseling</u> <u>agency</u>.
- Interview several real estate professionals (agents), and ask for and check references before you select one to help you buy or sell a home.
- Get information about the prices of other homes in the neighborhood. Don't be fooled into paying too much.
- Hire a qualified and licensed home inspector to carefully inspect the property before you are obligated to buy. Determine whether you or the seller will be responsible for paying for the repairs.
- Shop for a lender and compare costs. Be suspicious if anyone tries to steer you to just one lender.

If you believe you have been a victim of predatory lending, you can find a list of <u>federal, state, and</u> <u>local resources</u> at the HUD Office of Housing Counseling.

https://www.usa.gov/mortgages

Now lets talk about some of the basics of displaying text

Common issues with text

- Uncommon or unfamiliar vocabulary
- Difficult scripts and typefaces
- Tiny fonts
- Text on noisy backgrounds
- Information buried in repetition
- Centered text
- Too much text (You can usually delete half of most text)

Uncommon or unfamiliar vocabulary

1	Symantec Alert	×
	server pgpuniversal.iu.edu has presented an authentication certificate which is not v the following reason:	valid
•	Server pgpuniversal.iu.edu presented a TLS certificate for a domain name which does not match (rap.nnu.com)	^
		Y
	View Certificate	
	nay choose to accept this authentication certificate every time you connect to this ser allow it for this session. You may also abort the connection by clicking Deny.	ver, or
	Always Allow for This Site	1

Some example text from usa.gov/mortgages

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All capitals is hard to read because it prevents scanning

PREDATORY LOANS

MOST MORTGAGE PROFESSIONALS ARE TRUSTWORTHY AND PROVIDE A VALUABLE SERVICE, HELPING YOU TO BUY OR REFINANCE YOUR HOME. BUT DISHONEST OR "PREDATORY" LENDERS DO EXIST AND ENGAGE IN PRACTICES THAT INCREASE THE CHANCES OF BORROWERS LOSING THEIR HOMES TO FORECLOSURE. TO AVOID BECOMING A VICTIM OF PREDATORY LENDING, YOU NEED TO UNDERSTAND THE PROCESS TO BUY A HOME AND BE A SMART CONSUMER.

WHAT IS PREDATORY LENDING?

PREDATORY LENDERS, APPRAISERS, MORTGAGE BROKERS AND HOME IMPROVEMENT CONTRACTORS COULD USE ANY OF THESE TACTICS TO TAKE AWAY YOUR HOME OR INVESTMENTS:

- SELL PROPERTIES FOR MUCH MORE THAN THEY ARE WORTH USING FALSE APPRAISALS.
- ENCOURAGE BORROWERS TO LIE ABOUT THEIR INCOME, EXPENSES, OR CASH AVAILABLE FOR DOWN PAYMENTS IN ORDER TO GET A LOAN.

Consider this shape

What word is it?







Some fonts are easy to read

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Weird fonts make reading super complex.

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Tiny fonts

Worse than tiny fonts are tiny fonts that cannot be enlarged

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Text on noisy backgrounds

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Information buried in repetition

The options all start and end with the same words making the text hard to read

Keyboard and Documentation

Configure your MacBook with the following language options along with the language of the included user documentation.

- O Backlit Keyboard (English) / User's Guide
- O Backlit Keyboard (Western Spanish) / User's Guide
- O Backlit Keyboard (French) / User's Guide
- O Backlit Keyboard (Japanese) / User's Guide

Information buried in repetition

Pull the repeated text out and only say it once

Keyboard and Documentation

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Backlit Keyboard and User's Guide in:

English

O Western Spanish

○ French

◯ Japanese

Information buried in repetition

16	Setup - CutePDF Writer	×	
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Clicking "Cancel" will decline this installation process.	optional offer and proceed with the rest of	the	
By clicking "Next" and installing to End User License Agreement an	he MySearch App, a product of APN, LLC, y id <u>Privacy Policy</u> .	ou agree to the	
	Next >	Cancel	

Centered text

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Think-pair-share

- I will show three web pages for 20 seconds each
- Answer the following questions about the site:
 - What site is this?
 - What is the purpose of this site?
 - Any errors
 - Any good elements

Philip Wadler's home page

Contact details Wadler's Blog Towards Independence @PhilipWadler Links ABCD Haskell JFP FP in the real world SPLS Computational Thinking and Outreach



Interested in applying for a PhD or Internship?

From Data Types to Session Types: A Basis for Concurrency and Distribution, an EPSRC Programme Grant, joint with Simon Gay, Glasgow, and Nobuko Yoshida, Imperial.

TypeScript: The Next Generation funded by a Microsoft Research PhD Scholarship.

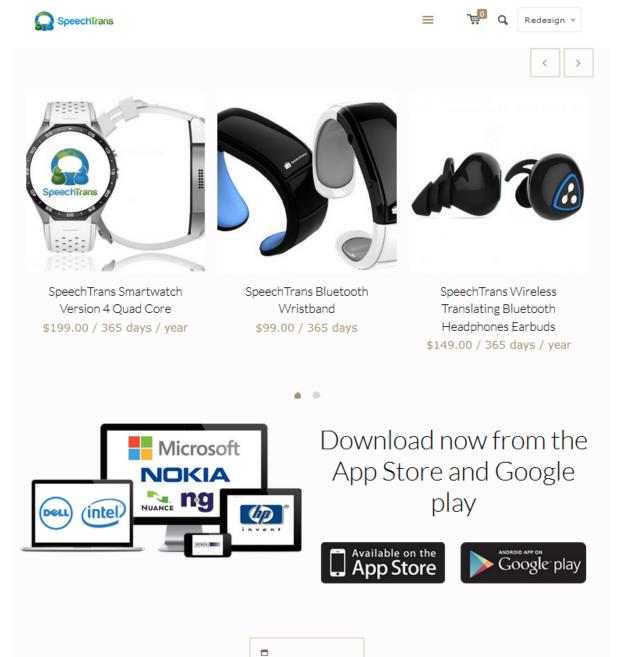
Centre for Doctoral Training in Pervasive Parallelism, studentships available for cohort starting September 2016.

Currently:

- Professor of Theoretical Computer Science, <u>Laboratory for Foundations of Computer Science</u>, <u>School of Informatics</u>, <u>University of Edinburgh</u> (2003–).
- ACM Special Interest Group on Programming Languages, Chair (2009-2012), Past Chair (2012-2015).



http://homepages.inf.ed.ac.uk/wadler/



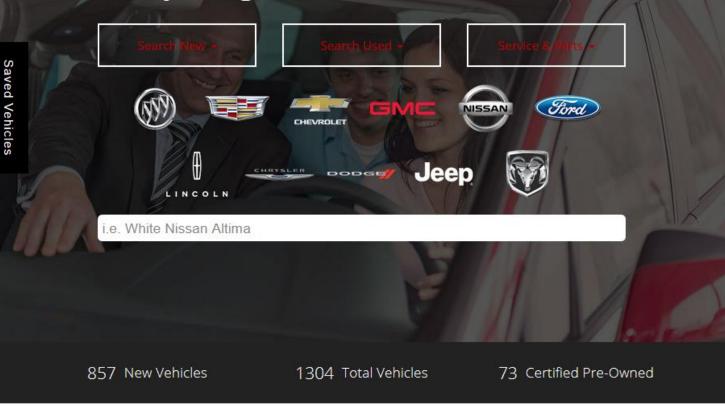
Schedule a meeting

Get A Quote

http://speechtrans.com/#



Everything You Want - Cole's Got It!



Our Reviews



Great salesman. Honest

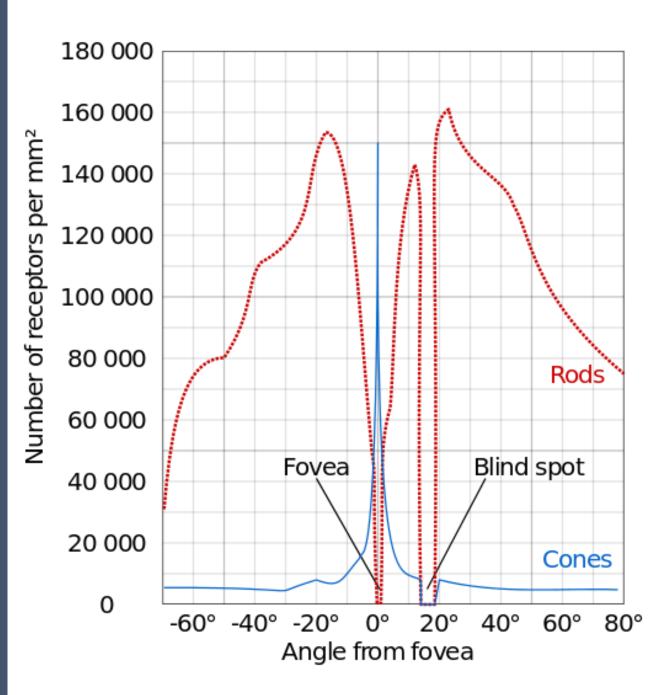
Read more at Google

http://www.coleautomotive.com/

The human eye is really good at seeing some things and bad at others

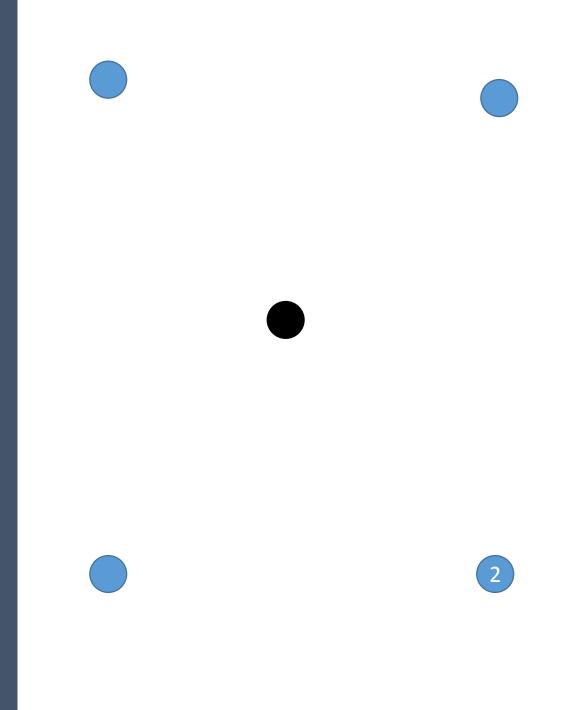
They eye is the most detailed at its center, where your focus is.

On the edges things are blurry, but you can easily see movement.



They eye is the most detailed at its center, where your focus is.

On the edges things are blurry, but you can easily see movement.



People only tend to see what they are looking at.

The human eye is built to see different things at different points

CHEPC

How to see number of clicks statistics of bitly URLs

Billing is fraggely proposed in an encoder of star-factory factory, for star-factory, for any of star-factory of star-factory of star-factory, for any of star-factory of star-factory.



View clicks stats of any B0.3y UB3.

just add "+" sign "http://bit.ly/7GidPK+",

Accessability

Pair-share

- I am about to show you a website
- Is it accessible to sight impaired people?
- Why or why not?

BBC	O Sign in
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	News	Sport
-	INC WYS	opon

Weather

Welcome to the BBC Sunday, 13 November

Sign in with your BBC iD, or Register to see Weather, Local News and more

Search



Q

Customise your Homepage



Remembrance Sunday: Services honour war dead



Tsunami hits after powerful New Zealand quake



England face Australia in crucial Four Nations match

UK

News headlines >







Nato chief's warning for Trump

US ELECTION 2016

France 'to extend state of emergency'

EUROPE

Iraq 'retakes ancient Nimrud from IS'

MIDDLE EAST

Sport headlines >

ASIA







England draw Test as India cling on

RUGBY LEAGUE

CRICKET

Will Rosberg win the battle in Brazil?

FORMULA 1

Murray wants to end season 'on a high note'

TENNIS

×

Basic stuff

- Add appropriate alt text to every image
- Use headings correctly
- Make your forms work with screen readers
- Use a "Skip to Main Content" link at the beginning of each page
- Make all content accessible by keyboard
- Create significant contrast between your text and background
- Use an accessible template

BBC	O Sign in
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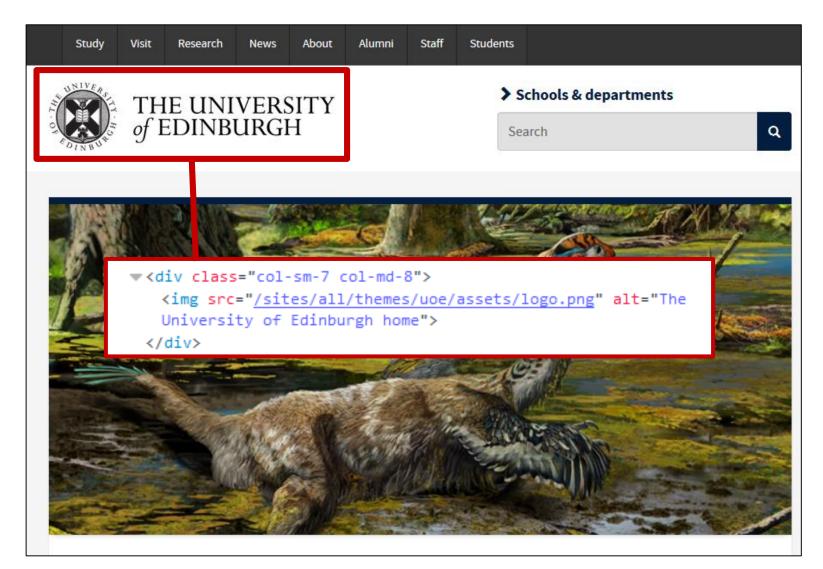
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×

Add appropriate alt text to images



Lets look at how the BBC website handles accessibility

Demo using Windows' default narrator

😓 chrome://fangs - Fangs: BBC - Home (https://www.bbc.co.uk/) - Mozilla F... 🕚



х

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Screen reader output Headings list Links list

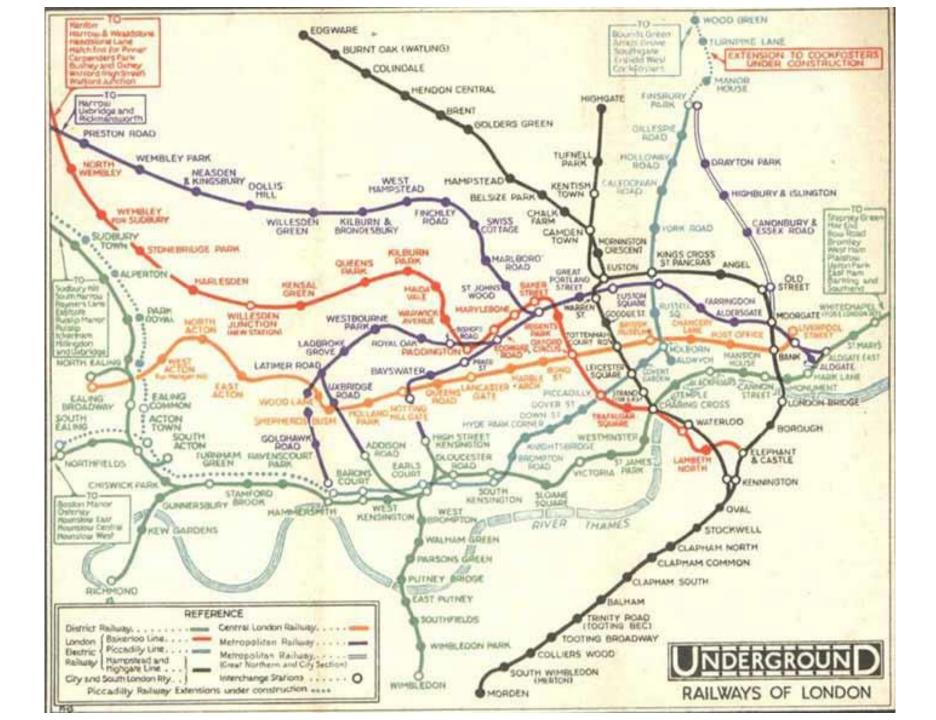
Screen reader output

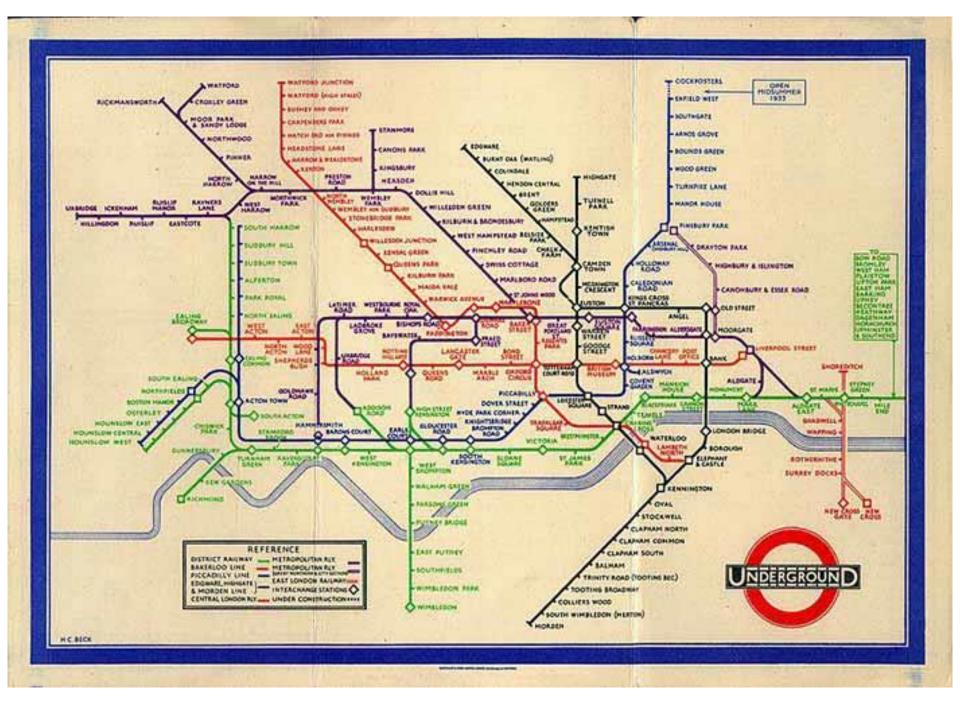
Page has ninety-six headings and one hundred fifty-one links BBC dash Home dash Internet Explorer Link Homepage Heading level two Accessibility links List of two items bullet This page link Skip to content bullet Link Accessibility Help List end Link Sign in This page link Notifications List of nineteen items bullet Link News bullet Link Sport bullet Link Weather bullet Link iPlayer bullet Link TV bullet Link

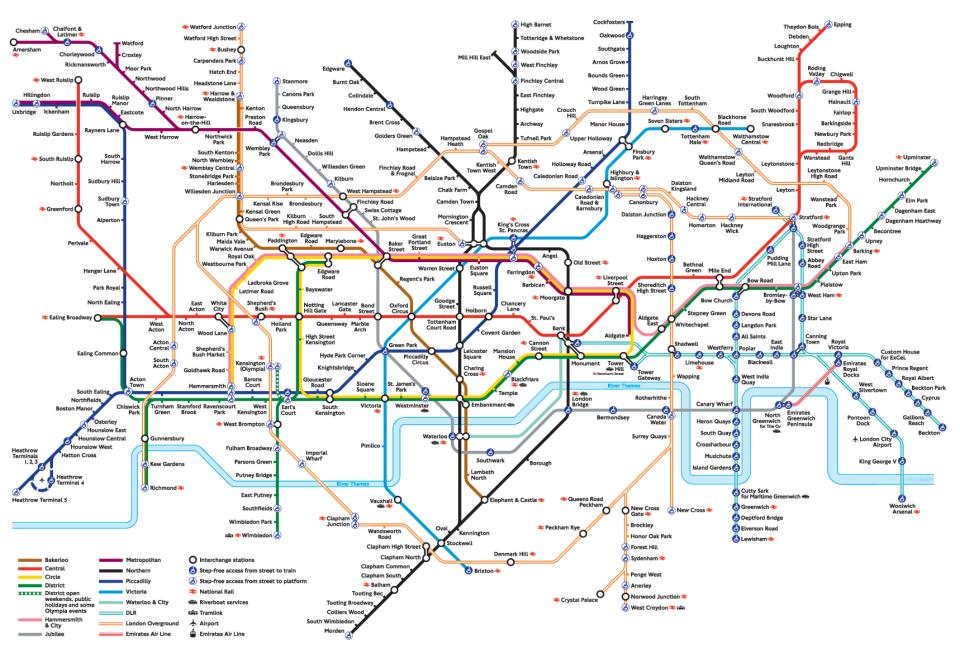
Radio bullet This page link More List end Link Search the BBC Edit Search the BBC Heading level one BBC Homepage Heading level two Welcome to the BBC Sunday, thirteen November Link Customise your Homepage Sign in with your BBC ID, or Register to see Weather, Local News and more. Link Sign in with your BBC iD, or Link Register to see Weather, Local News and more Link Heading level three Remembrance Sunday colon Services honour war dead From UK Link Heading level three Tsunami hits after powerful New Zealand quake From Asia Link Heading level three England face Australia in crucial Four Nations match . Live now. From Rugby League Link Heading level two News headlines Link Heading level three Nato chief's warning for Trump From US Election two thousand sixteen Link Heading level three France 'to extend state of emergency' From Europe Link Heading level three Irag 'retakes ancient Nimrud from IS' From Middle East Link Heading level two Sport headlines Link Heading level three England draw Test as India cling on From Cricket Link Heading level three Will Rosberg win the battle in Brazil? From Formula one Link Watch video Heading level three Murray wants to end season 'on a high note' From Tennis Remove Heading level two three things we love today Link Heading level three How the internet reacted to an epic night of dance From BBC One Link Heading level three Hundreds join Walnut the whippet on his final 'walk' From England Link Watch video Heading level three Murray and Diokovic take on the manneguin challenge From Tennis Remove Heading level two Help us make the BBC Homepage better Want to opt in to our alternative page? Find out more Link here Dismiss Link Try it now Heading level two The BBC around the UK List of five items bullet Link Graphic slash pthree hundred six tteight .png Scotland bullet Link Graphic slash pthree hundred six trm.png ALBA bullet Link Graphic slash pthree hundred six tpeight .png Wales bullet Link Graphic slash pthree hundred six tpeight .png Cymru bullet Link Graphic slash pthree hundred six tqc.png NI List end Dismiss Heading level two Real dash life stories Link Listen to audio Heading level three Bataclan survivor colon It's changed me on every single level From BBC Radio five live Link Watch video Heading level three The teacher who has the world's loudest shout From Northern Ireland Link Listen to audio Heading level three Sole survivor 'miracle girl' tells of fatal air crash horror From BBC World Service Remove Heading level two Link Add more sections This



Information does not always have to be presented in a literal sense







Questions?