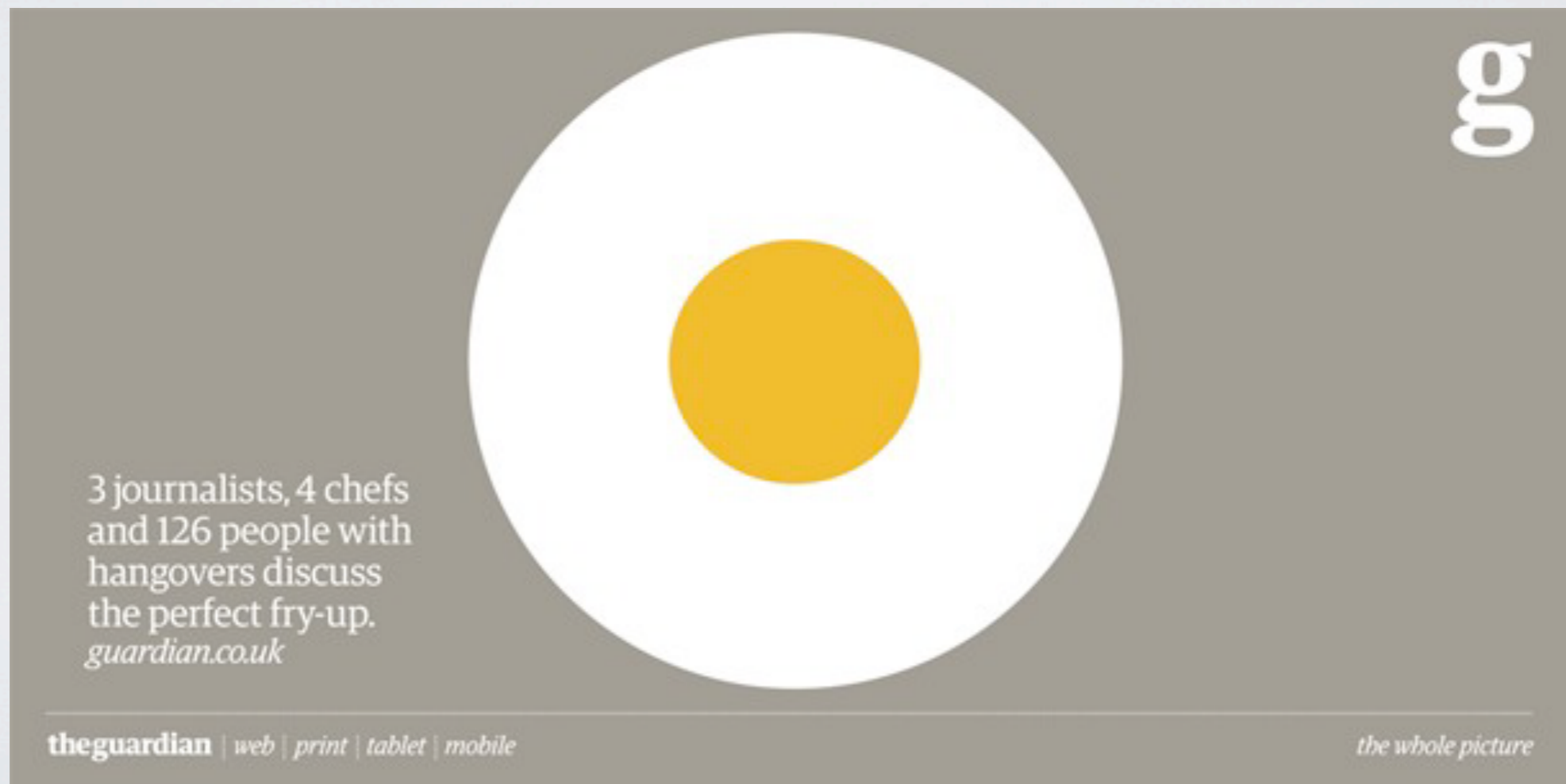




simplifying development at [guardian.co.uk](http://guardian.co.uk)

Graham Tackley - @tackers  
architect, [guardian.co.uk](http://guardian.co.uk)



3 journalists, 4 chefs  
and 126 people with  
hangovers discuss  
the perfect fry-up.  
[guardian.co.uk](http://guardian.co.uk)

the guardian | web | print | tablet | mobile

the whole picture

Background  
Decision  
Impact  
Outcomes

# **Background**

Decision

Impact

Outcomes

Background  
Decision  
Impact  
Outcomes

**FREE Great fairytales**  
Today *Wisdom and folly*  
Tomorrow *Justice and punishment*

How much TV should your children watch?  
G2 cover story

**the guardian**

Oil firm drops bid to gag Guardian over MP's question

- Web users publish details of legal issue raised in parliament
- Labour member asked about injunction over toxic waste case

Dear leader: Sven in line to manage North Korea



How's he doin'?  
Matt LeBlanc's new TV comedy

Aditya Chakraborty  
Is Facebook destroying friendship?

**the guardian**

Ministers cave in to City over bank bonuses

No 10 rejects calls to tackle highest earners as it seeks face-saving deal

Obama's lead moment of silence



Undercover officer knew of second spy

Study warns of crisis among women

**the guardian**

Revealed: Murdoch's £1m bill for hiding dirty tricks

- Tory PR chief under fire over tabloid hacking
- Politicians and celebrities among victims



I think it is one of the most significant modern stories of Murdoch's empire. It was systematic. News of the World was out of control.

The whole thing is deplorable. Mr Cameron should be thinking of getting out of Coulson.

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Phone-hack inquiry was abandoned to avoid upsetting Met

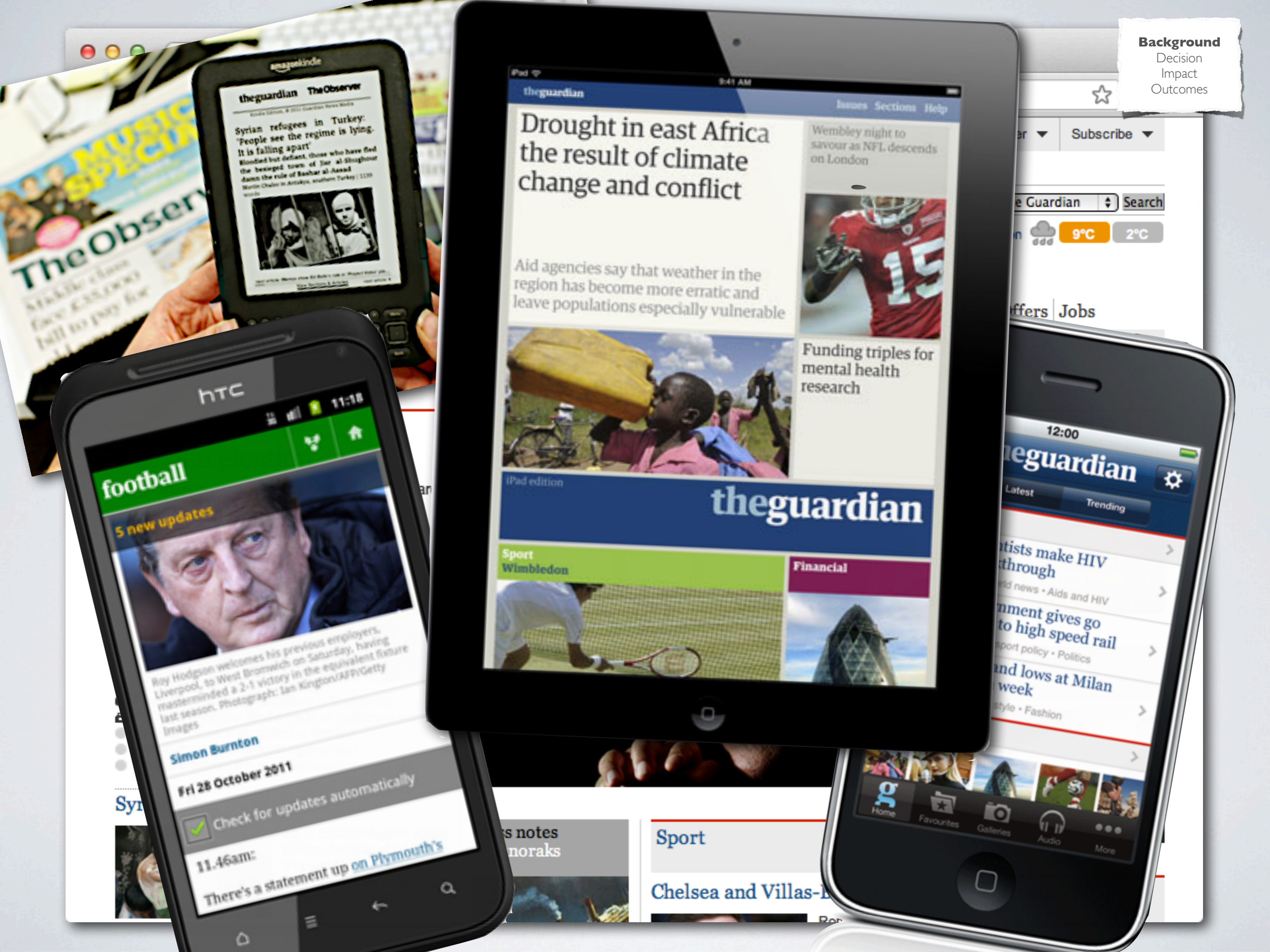
- Leaked memo warned police would 'deeply resent' probe
- Senior ex-officer says new claims must be investigated



Last sighting CCTV image of M16 man

**Background**

- Decision
- Impact
- Outcomes



amazonkindle  
theguardian The Observer  
Syrian refugees in Turkey:  
"People see the regime is lying.  
It is falling apart"  
Bloodied but defiant, those who have fled  
the besieged towns of Jar al-Shughour  
damn the rule of Bashar al-Assad  
Martin Chabou in Antakya, southern Turkey | 2110  
words

theguardian  
9:41 AM  
Issues Sections Help  
Drought in east Africa  
the result of climate  
change and conflict  
Wembley night to  
savour as NFL descends  
on London  
Aid agencies say that weather in the  
region has become more erratic and  
leave populations especially vulnerable  
Funding triples for  
mental health  
research  
the guardian  
iPad edition  
Sport Wimbledon  
Financial

htc  
11:18  
football  
5 new updates  
Roy Hodgson welcomes his previous employers,  
Liverpool, to West Bromwich on Saturday, having  
masterminded a 2-1 victory in the equivalent fixture  
last season. Photograph: Ian Kington/AP/GETTY  
Simon Burton  
Fri 28 October 2011  
Check for updates automatically  
11.46am:  
There's a statement up on Plymouth's

12:00  
theguardian  
Latest Trending  
Artists make HIV  
through  
World news • Aids and HIV  
Government gives go  
to high speed rail  
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2006-2008: “R2”

Spring 



HIBERNATE



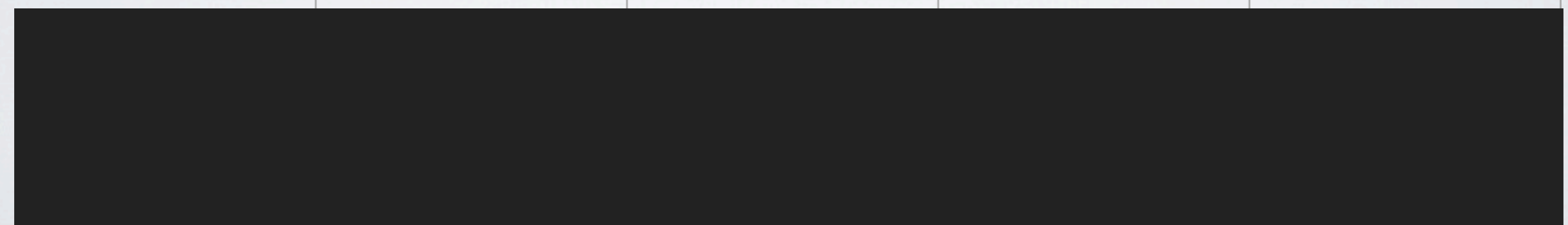
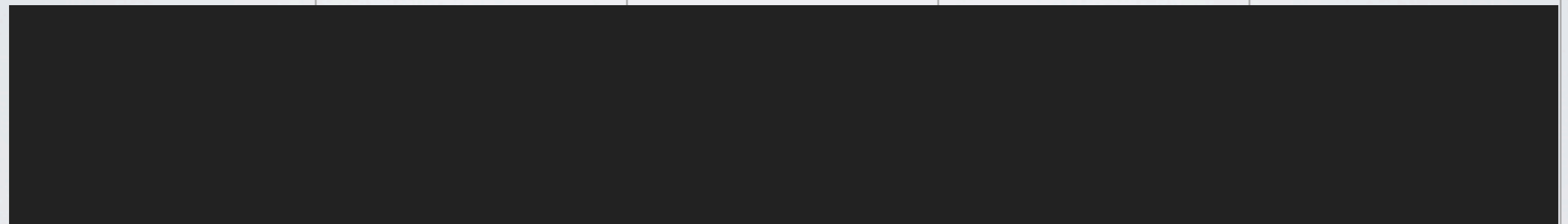
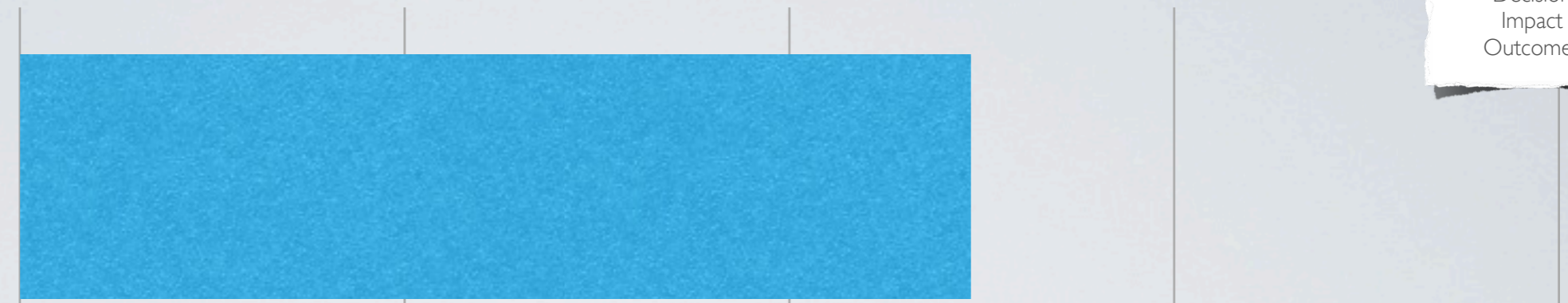
**Background**

Decision

Impact

Outcomes

main java (185k)



0 75'000 150'000 225'000 300'000

**Background**

Decision  
Impact  
Outcomes

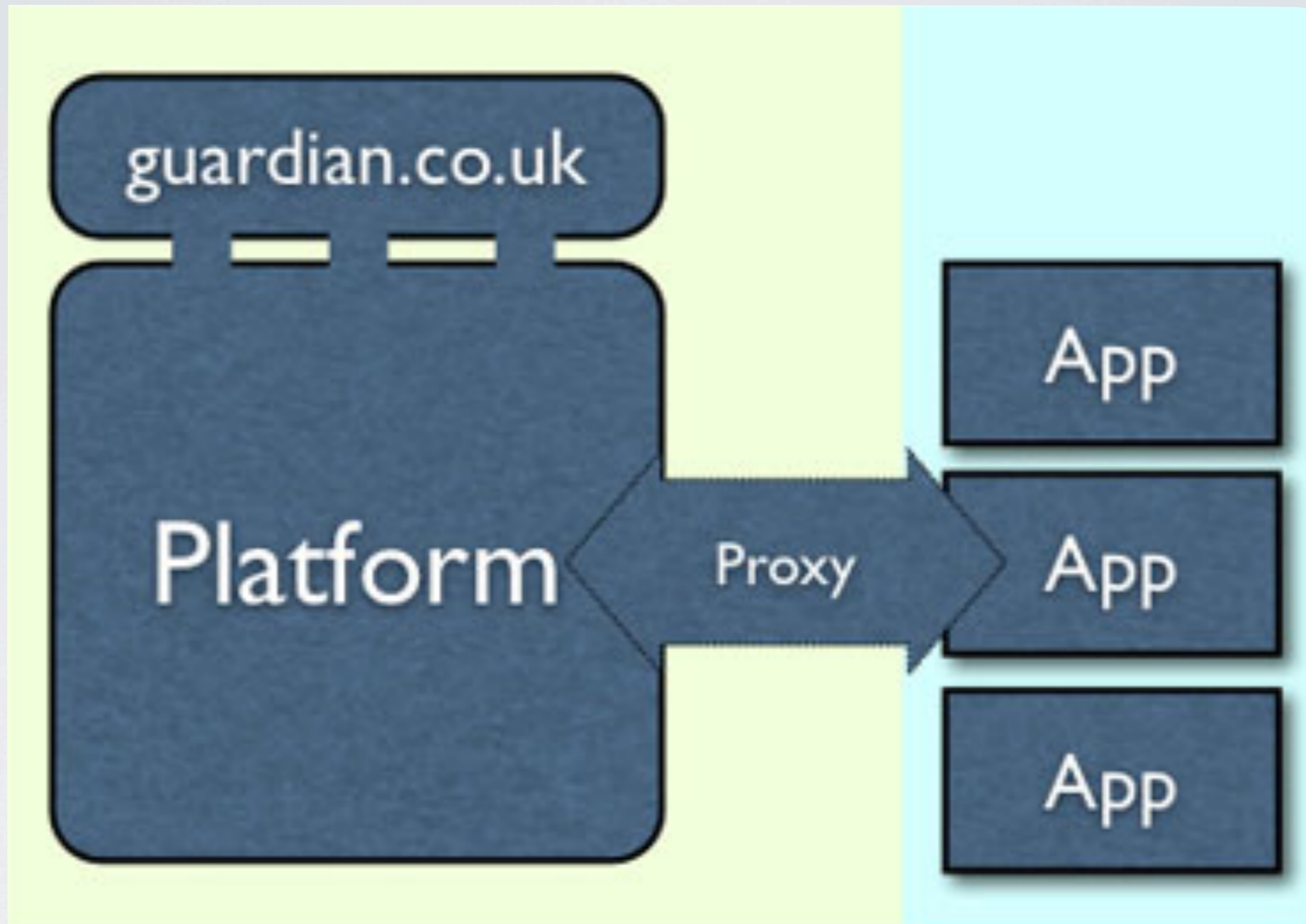
it's ok, but...

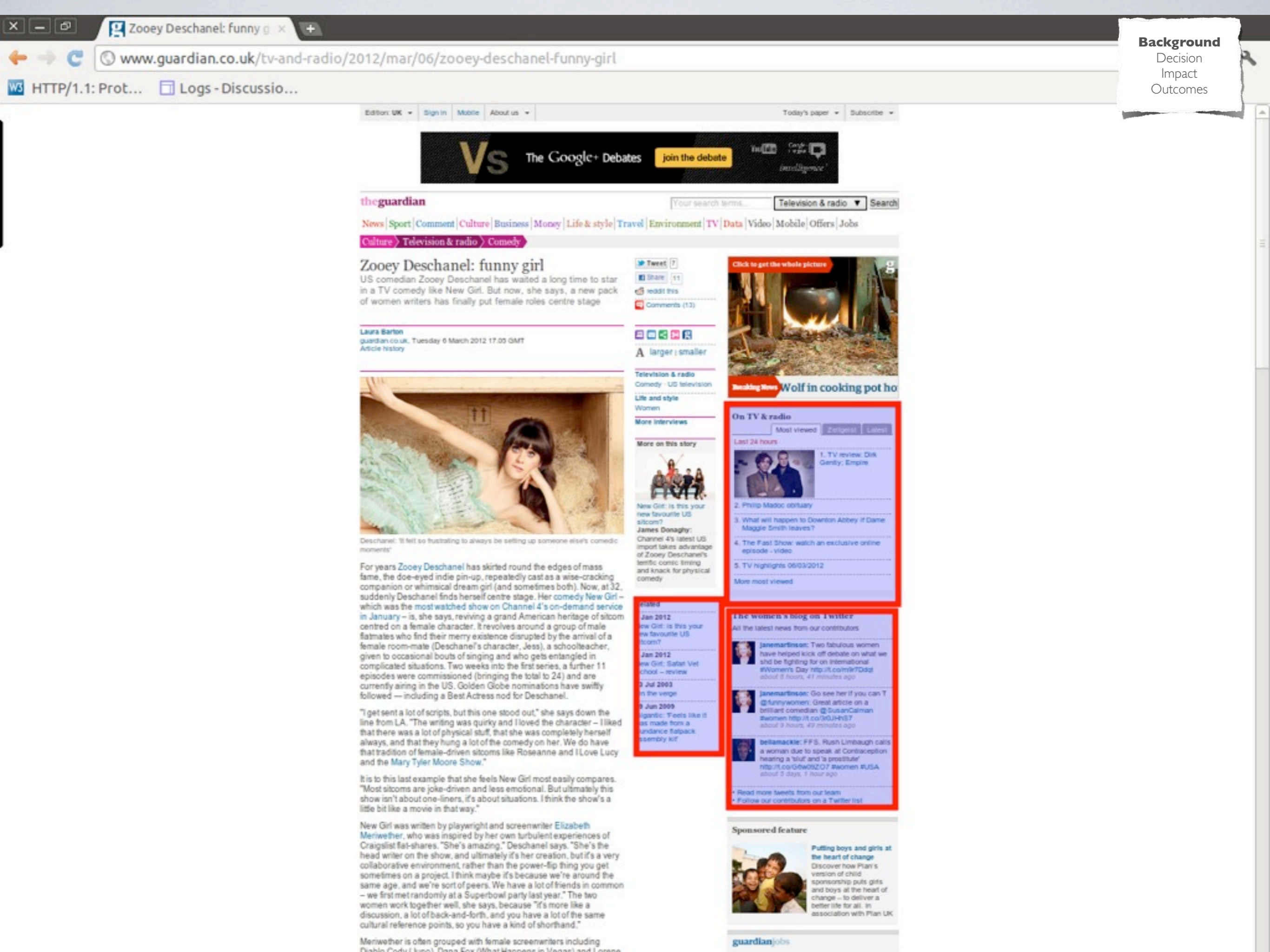


2009

**Background**

Decision  
Impact  
Outcomes





**Vs** The Google+ Debates [join the debate](#)

### Zoey Deschanel: funny girl

US comedian Zoey Deschanel has waited a long time to star in a TV comedy like *New Girl*. But now, she says, a new pack of women writers has finally put female roles centre stage

Laura Barton  
guardian.co.uk, Tuesday 6 March 2012 17:00 GMT  
[Article history](#)



Deschanel: 'It felt so frustrating to always be setting up someone else's comedic moments'

For years Zoey Deschanel has skirted round the edges of mass fame, the doe-eyed indie pin-up, repeatedly cast as a wise-cracking companion or whimsical dream girl (and sometimes both). Now, at 32, suddenly Deschanel finds herself centre stage. Her comedy *New Girl* – which was the most watched show on Channel 4's on-demand service in January – is, she says, reviving a grand American heritage of sitcom centred on a female character. It revolves around a group of male flatmates who find their merry existence disrupted by the arrival of a female room-mate (Deschanel's character, Jess), a schoolteacher, given to occasional bouts of singing and who gets entangled in complicated situations. Two weeks into the first series, a further 11 episodes were commissioned (bringing the total to 24) and are currently airing in the US. Golden Globe nominations have swiftly followed – including a Best Actress nod for Deschanel.

"I get sent a lot of scripts, but this one stood out," she says down the line from LA. "The writing was quirky and I loved the character – I liked that there was a lot of physical stuff, that she was completely herself always, and that they hung a lot of the comedy on her. We do have that tradition of female-driven sitcoms like *Roseanne* and *I Love Lucy* and the *Mary Tyler Moore Show*."

It is to this last example that she feels *New Girl* most easily compares. "Most sitcoms are joke-driven and less emotional. But ultimately this show isn't about one-liners, it's about situations. I think the show's a little bit like a movie in that way."

*New Girl* was written by playwright and screenwriter Elizabeth Meriwether, who was inspired by her own turbulent experiences of Craigslist fat-shares. "She's amazing," Deschanel says. "She's the head writer on the show, and ultimately it's her creation, but it's a very collaborative environment rather than the power-flip thing you get sometimes on a project. I think maybe it's because we're around the same age, and we're sort of peers. We have a lot of friends in common – we first met randomly at a Superbowl party last year." The two women work together well, she says, because "it's more like a discussion, a lot of back-and-forth, and you have a lot of the same cultural reference points, so you have a kind of shorthand."

Meriwether is often grouped with female screenwriters including Diablo Cody (*Juno*), Dana Fox (*What Happens in Vegas*) and Loren

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Comments (13)

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Television & radio  
Comedy - US television

Life and style  
Women

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**New Girl: Is this your new favourite US sitcom?**  
James Donaghy: Channel 4's latest US import takes advantage of Zoey Deschanel's terrific comic timing and knack for physical comedy

**Jan 2012**  
New Girl: Is this your new favourite US sitcom?

**Jan 2012**  
New Girl: Sateet Vel School - review

**3 Jul 2003**  
In the verge

**3 Jun 2009**  
Organic: 'Feels like it was made from a sundance fatpack assembly kit'

Click to get the whole picture

**Breaking News** Wolf in cooking pot ho

**On TV & radio**

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**The women's blog on Twitter**

All the latest news from our contributors

- janemartinson: Two fabulous women have helped kick off debate on what we shd be fighting for on International #Womens Day http://t.co/3GJH57 about 3 hours, 41 minutes ago
- janemartinson: Go see her if you can T @funnywomen: Great article on a brilliant comedian @SusanCalman #women http://t.co/3GJH57 about 3 hours, 49 minutes ago
- bellamackie: FFS. Rush Limbaugh calls a woman due to speak at Contraception hearing a 'slut' and 'a prostitute' http://t.co/06w05Z07 #women #USA about 3 days, 1 hour ago

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### Comments

13 comments, displaying **Oldest** first

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-  Staff
-  Contributor



**Moltisantii**  
6 March 2012 5:35PM

Terrible actor, amazing singer

- [Recommend? \(1\)](#)
- [Responses \(0\)](#)
- [Report](#)
- [Clip | Link](#)



**dunstablesucks**  
6 March 2012 5:38PM

Zoey Deschanel, would wife

- [Recommend? \(0\)](#)
- [Responses \(0\)](#)
- [Report](#)
- [Clip | Link](#)



**TheBritishTeaParty**  
6 March 2012 5:39PM

Elf is the greatest movie ever made.

- [Recommend? \(5\)](#)
- [Responses \(0\)](#)
- [Report](#)
- [Clip | Link](#)



**antonysn**  
6 March 2012 5:39PM

Quirky at its best, sharply written, looks great - New Girl is a total win.

- [Recommend? \(1\)](#)
- [Responses \(0\)](#)
- [Report](#)
- [Clip | Link](#)

To watch Zoey even in *Come*, but that's by the way.



**nansikom**  
6 March 2012 5:40PM

Does anyone else think that she looks like Katy Perry?

- [Recommend? \(3\)](#)
- [Responses \(0\)](#)
- [Report](#)
- [Clip | Link](#)

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Small Independent Components  
over  
The Monolith

investorcompensation.co.uk/ppi

**First Plus PPI refund**

receive a Full refund plus interest within 60 Days. no upfront letter  
firstplus-ppi-reclaim.co.uk

**Comments**

211 comments, displaying **Oldest** first

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Latest 1 2 3 4 5 Next All

-  Staff
-  Contributor



**AneliyaEssex**  
4 March 2012 5:06PM

RT exit is 58% Putin. Zyuganov a poor 2nd on 17ish%.

- Recommend? (10)
- Responses (0)
- Report
- Clip| Link



**AneliyaEssex**  
4 March 2012 5:10PM

Other numbers flying around add up to 4% more.

- Recommend? (2)
- Responses (0)
- Report
- Clip| Link



**Strummered**  
4 March 2012 5:13PM

I comfortably predict a shoe-in for Tsar Putin.

- Recommend? (13)
- Responses (0)
- Report
- Clip| Link



**RichieRichard**  
4 March 2012 5:14PM

- Recommend? (73)
- Responses (1)
- Report



python

**django**

**We value**

Clarity of Intent  
over  
Ceremonial Abstraction

**Background**

Decision  
Impact  
Outcomes

it's ok, but...



**We value**

Architectural Evolution  
over  
Architectural Revolution

Background

**Decision**

Impact

Outcomes

The logo icon consists of three horizontal red bars of varying lengths, stacked vertically, with thin black gaps between them. The bars are slightly curved and have a 3D effect.

# Scala

same infrastructure: toolset,  
libraries, build, runtime

it's just bytecode;  
a war is a war



mixed scala & java  
projects work

huge drop in verbosity  
and boilerplate

```
package net.tackley;

public class WelcomeClass {
    private String name;

    public WelcomeClass(String name) {
        this.name = name;
    }

    public String sayIt() {
        return "Hello " + name;
    }
}
```

```
package net.tackley

class ScalaWelcomeClass(name: String) {
    def sayIt = "Hello " + name
}
```

huge drop in verbosity  
and boilerplate

**We value**

Craft  
over  
Patterns

# OPEN PLATFORM

Build applications with **the guardian**

<http://www.guardian.co.uk/open-platform>

<http://content.guardianapis.com>

```
content.guardianapis.com/search.json?q=aarhus&show-fields=all

{
  - response: {
    status: "ok",
    userTier: "free",
    total: 174,
    startIndex: 1,
    pageSize: 10,
    currentPage: 1,
    pages: 18,
    orderBy: "newest",
  - results: [
    - {
      id: "football/2011/jun/25/spain-switzerland-european-under-21-championship",
      sectionId: "football",
      sectionName: "Football",
      webPublicationDate: "2011-06-25T22:46:20+01:00",
      webTitle: "Spain beat Switzerland to secure European Under-21 Championship title",
      webUrl: "http://www.guardian.co.uk/football/2011/jun/25/spain-switzerland-european-under-21-championship",
      apiUrl: "http://content.guardianapis.com/football/2011/jun/25/spain-switzerland-european-under-21-championship",
      - fields: {
        trailText: "Goals from Ander Herrera and Thiago Alcântara secured a third European Under-21 Championship title for Spain",
        headline: "Spain beat Switzerland to secure European Under-21 Championship title",
        strap: "European Under-21 Championship final",
        lastModified: "2011-06-25T23:14:35+01:00",
        hasStoryPackage: "false",
        standfirst: "* Switzerland 0-2 Spain",
        shortUrl: "http://gu.com/p/3v639",
        thumbnail: "http://static.quim.co.uk/sys-images/Football/Clubs/Club_Home/2011/6/25/1309034707629/Thiago-Alcantara-is-congr-003.jpg",
        commentable: "true",
        byline: "Agencies",
        publication: "guardian.co.uk",
        shouldHideAdverts: "false",
        liveBloggingNow: "false"
      }
    },
    - {
      id: "science/2011/jun/05/scientists-create-antimatter-study",
      sectionId: "science",
      sectionName: "Science",
      webPublicationDate: "2011-06-05T17:59:00+01:00",
      webTitle: "Scientists trap antimatter long enough to study how it works",
      webUrl: "http://www.guardian.co.uk/science/2011/jun/05/scientists-create-antimatter-study",
      apiUrl: "http://content.guardianapis.com/science/2011/jun/05/scientists-create-antimatter-study",
      - fields: {
        newspaperPageNumber: "4".
      }
    }
  ]
}
```



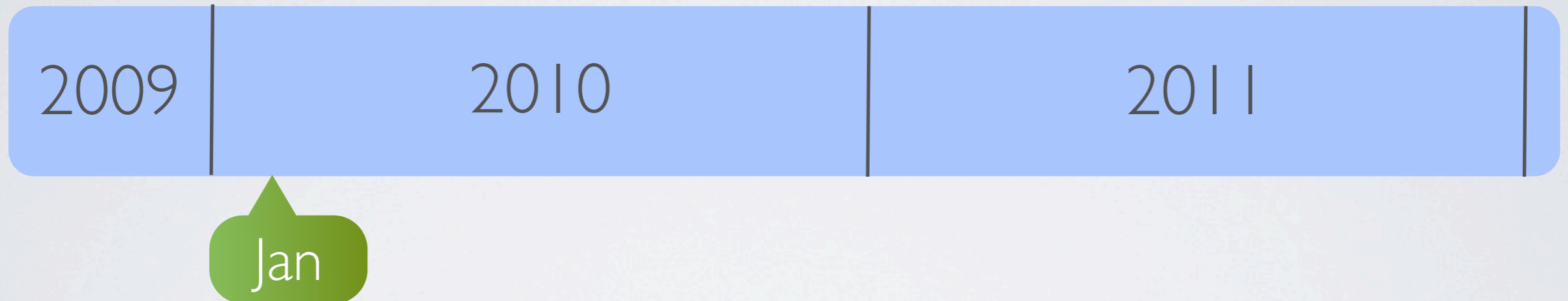
2009

2010

2011

Nov

java + guice + guice servlets + apache solr



java + guice + guice servlets + apache solr

```
@RunWith(classOf[JUnitRunner])
abstract class PaginationTest extends FeatureSpec with ShouldMatchers {
  protected def formatString: String

  feature("search pagination") {
    scenario("number of results should be displayed") {

      val results = Api.searchQuery
        .withFormat(formatString)
        .withUserTier("free")
        .search

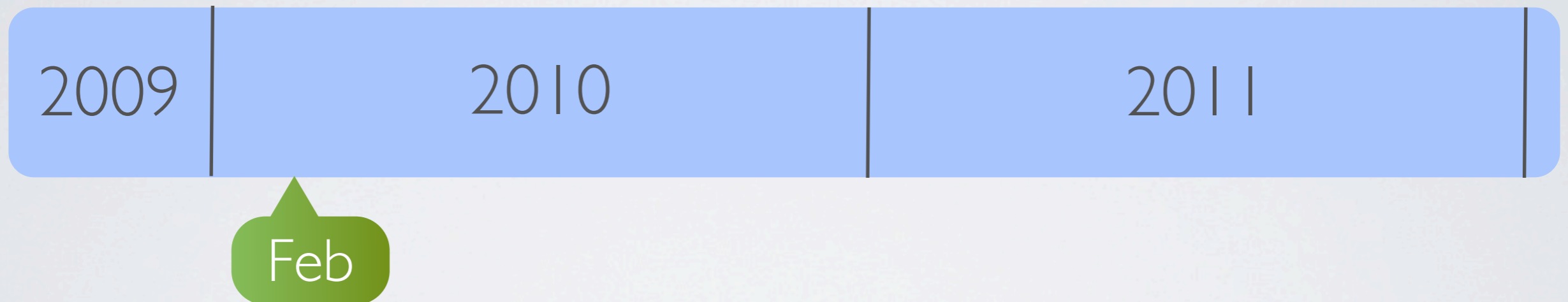
      results.total should be > (0)
    }
  }
}

class XmlPaginationTest extends PaginationTest {
  protected override def formatString = "xml"
}

class JsonPaginationTest extends PaginationTest {
  protected override def formatString = "json"
}
```

```
private def bootstrap: Unit = {
  info("***** BOOTSTRAPPING A LOCAL COPY OF THE API BECAUSE NOTHING IS LISTENING ON PORT %d ***")
  startJetty
  populateIndex
  info("***** YOUR LOCAL COPY OF THE API IS NOW RUNNING ON PORT %d *****" format PORT)
}

private def populateIndex: Unit = {
  val server = new CommonsHttpSolrServer("http://localhost:" + PORT + "/solr")
  val query = new SolrQuery(":*")
  var response = server.query(query)
  var found = response.getResults.getNumFound
  if (found > 100) {
    info("Not rebuilding index because it contains %d items already" format found)
    return
  }
  info("Populating index")
  try {
    IndexBuild.main("-t 10 -b 3000 -f".split("\\s"))
  }
  catch {
    case e: Exception => {
      info("INDEX POPULATION FAILED: " + e)
      e.printStackTrace
      throw e
    }
  }
}
```



scala + guice + guice servlets + apache solr



scala + guice + guice servlets + apache solr

2009

2010

2011

July

scala + guice + guice servlets + apache solr

2009

2010

2011

July

scala + lift + apache solr



```
class PaginationInfo(docs: SolrDocumentList, params: PaginationParameters) {  
  lazy val total = docs.getNumFound  
  lazy val startIndex = if (total == 0) 0L else docs.getStart + 1  
  lazy val pageSize = params.pageSize.toLong  
  
  lazy val pages = ceil(total.toDouble / pageSize.toDouble).toLong  
  lazy val currentPage = if (total == 0) 1L else ((startIndex - 1) / pageSize) + 1  
  
  if (startIndex > total) {  
    | InvalidApiRequest("requested page is beyond the number of available pages")  
  }  
}
```

2009

2010

2011

Now

scala + lift + apache solr

Background  
Decision  
**Impact**  
Outcomes

# The roll-it-out-to-everyone plan





Background  
Decision  
**Impact**  
Outcomes

```
bash gtrackley — java — 90x19
~ $ scala
Welcome to Scala version 2.9.1 final (2011-08-02 Java 1.6.0_29).
```



an effective way to... quickly. This is the written material that accompanies those lectures. We have found that these are useful in their own right.

#### Collections

Lists, Maps, functional combinators (map, foreach, filter, ...)

theguardian

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# workforus

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### Welcome to Guardian News & Media's new recruitment site

This is the place to find all the information you need to apply for a position at the Guardian, the Observer or Guardian Media Group

### Journalism



### A survival guide for budding journalists

If you want to break into journalism, know that an accredited course can open doors, it takes a strong pitch to catch an editor's eye and online skills can make you more employable

- [Careers in journalism](#)
- [Journalism forum](#)

## Follow @GuardianTalent on Twitter

All the tweets from the talent and development team at Guardian News and Media



**GuardianTalent:** The Guardian has a new TV ad premiering tonight - tune in to Channel 4 at 10.10pm #wholepicture  
*about 4 days, 17 hours ago*



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<http://t.co/At4IrsQr>  
*about 6 days ago*



**GuardianTalent:** Attention talented Systems Developers! We're want technical experts to come join us <http://t.co/WQgr0tzV>  
*about 1 week, 5 days ago*



**GuardianTalent:** Our e-books business is growing fast! Want to be part of the team driving the growth? Come and work with us.  
<http://t.co/RyLaWqRB>

We value

Passionate Developers  
over  
Turning the Crank



Background  
Decision  
**Impact**  
Outcomes

InfoQ: Yammer Moving from ...  
www.infoq.com/news/2011/11/yammer-scala

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## Yammer Moving from Scala to Java

Posted by Alex Blewitt on Nov 30, 2011

Sections Development

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An e-mail, sent from Typesafe, ended up that Yammer is moving with complexity and

Yammer PR Shelley of Coda Hale, rather original author has clarified that the me (Typesafe) following

Update: Code has p above points. It also mail was an attempt concerns. Finally, it

Educational Content

Sufficient Design: Quality In Sync With Business Context

Stephen Colebourne's blog  
Thoughts and Musings on the world of Java and beyond

blog.joda.org/2011/11/scala-feels-like-ejb-2-and-other.html

Share Report Abuse Next Blog»

TUESDAY, 22 NOVEMBER 2011

## Scala feels like EJB 2, and other thoughts

At Devovx last week I used the phrase "Scala feels like EJB 2 to me". What

### Scala

For a number of years on this blog I've been mentioning a desire to write easy, because anyone who has been paying attention to anti-Scala blog posts of getting flamed. The Scala community is not tolerant of dissent.

But ultimately, I felt that it was important for me to speak out and express me that had a poor opinion of Scala I would probably keep quiet (or try to) considerable uneasiness amongst many that have tried or looked at the language concerns.

Before I start I should mention that although I like the Fantom programming other languages - Groovy, Kotlin, Ceylon, Gosu, Xtend and many others. I struggle to find positive feelings for Scala, and what positive feelings I have

java.dzone.com/articles/java-scala-complexity-and-aardvarks

DZone  
JAVALOBBY Did you know? DZone has great portals for Python, Cloud, NoSQL, and HTML5!

Nicolas Frankel Bio

## Java, Scala, complexity and aardvarks

DECEMBER 06, 2011 AT 12:35 AM Like Tweet 4 +1 2

This week saw another flame war from some of the Scala crowd. This time, it was toward Stephen Colebourne, the man behind Joda time.

The article in question can be found [here](#), and Stephen's answer [here](#).

To be frank, I tend to agree to Stephen's predicament but for very different reasons. Now, if you're a Scala user, there are basically 2 options:

- either you react like some did before, telling me I'm too stupid or too lazy to really learn the language and stop reading at this point. In this case, I'm afraid there's nothing I can say apart from "Please, don't harm me" because it has a feeling of religion war coming from supposedly scientific-minded people.

Or you can read on and we'll debate like educated people.

Recommended Resources

- Migrating to FUSE Mediation Router
- Apache Lucene 3.0: Download the LucidWorks Certified Distribution
- Getting Started with FUSE Mediation Router
- Implementing Enterprise Integration Patterns
- The Java Evolution Mismatch: Why You Need a Better JVM

Dev & Ops  
Online Visitors: 278



```
public class LinkProcessingCacheDelegate {
    private static final Logger LOGGER = Logger.getLogger(LinkProcessingCacheDelegate.class);

    private final MicroappCacheDelegate delegate;
    private final MicroappContentPlaceholderProcessor contentPlaceholderProcessor;

    public LinkProcessingCacheDelegate(MicroappCacheDelegate delegate, MicroappContentPlaceholderProcessor contentPlaceholderProcessor) {
        this.delegate = delegate;
        this.contentPlaceholderProcessor = contentPlaceholderProcessor;
    }

    public HttpResponse post(String microappName, String url, Map<String, String[]> parameters, List<Header> customHeaders) {
        HttpResponse response = delegate.post(microappName, url, parameters, customHeaders);
        setResponseContent(url, response);
        return response;
    }

    public HttpResponse getHtmlFor(String microappName, String sourceUrl) {
        HttpResponse response = delegate.getHtmlFor(microappName, sourceUrl);
        setResponseContent(sourceUrl, response);
        return response;
    }

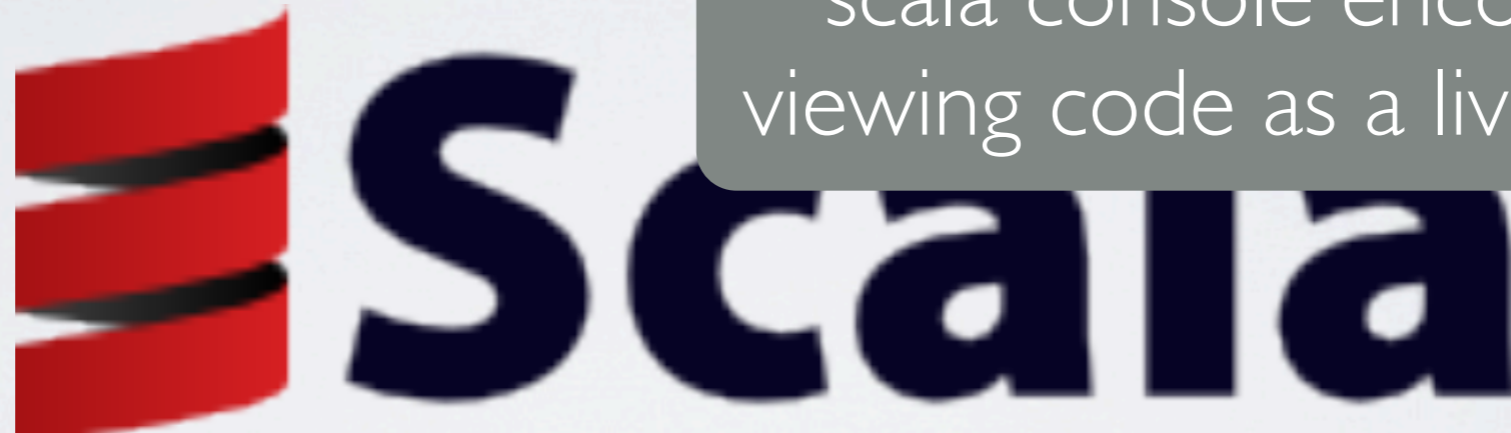
    private void setResponseContent(String url, HttpResponse response) {
        LOGGER.debug("Got this response: "+response.getStatusCode()+" "+response.getLocation());
        if (response.isRedirect()) {
            //redirects are only for microapp resources
            LOGGER.debug("Treating as redirect. Response location: "+response.getLocation());
            String processedLocation = contentPlaceholderProcessor.convertLocation(url, response.getLocation());
            response.setLocation(processedLocation);
        } else {
            LOGGER.debug("Treating as non-redirect.");
            String processedHtml = contentPlaceholderProcessor.processPlaceholders(url, response.getBody());
            response.setBody(processedHtml);
        }
    }
}
```

**We value**

Clarity  
over  
Cleverness

Background  
Decision  
Impact  
**Outcomes**

preference for immutability



scala console encourages  
viewing code as a living entity

awesome test frameworks

reduced need for complex  
frameworks

love-hate relationship with sbt



tool support immature  
compared with java

compiler is slow

rate of change

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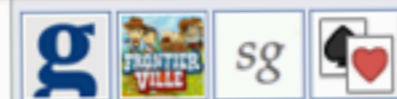


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```
// Canvas is the article or homepage iframe in the Facebook app.
serve("/canvas/*") {
  cacheFor(5 * 60)

  val path = params("splat")
  val content = ContentApi(path)
  val showContentInFacebook = content.exists { _.showInFacebook }
  val user = User(request)

  (path, showContentInFacebook, user) match {
    case (_, _, NoUser) =>
      // External NoUsers are direct requests to AppEngine. Forward to Facebook App.
      log.info("Forwarding direct canvas access to Facebook App")
      redirectToFacebookApp(path + trackingQueryString(params))

    case ("", _, _) =>
      renderHomepage(tabbed = false, user)

    case (_, true, _) =>
      renderContent(content.get)

    case (_, false, _) =>
      log.info("Forwarding to guardian.co.uk")
      redirectToGuardian(Configuration.liveGuardianUrl(path), "native")
  }
}
```

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Background  
Decision  
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**Outcomes**

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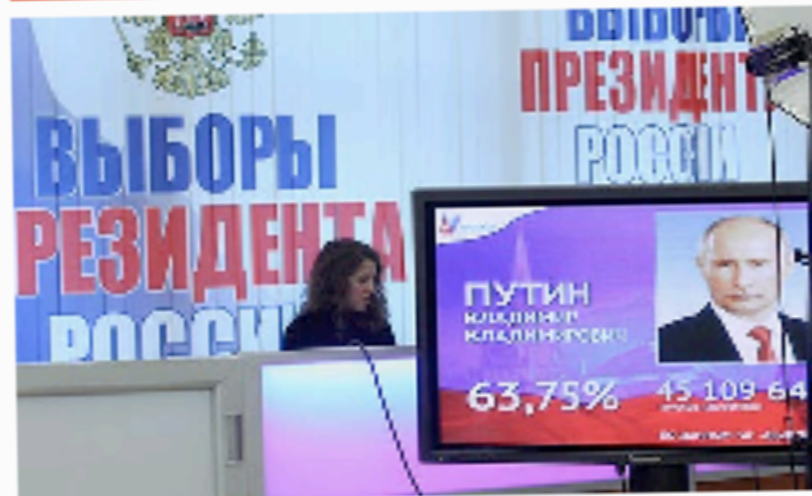
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News > World news > Russian presidential election 2012

## Russian election 'skewed' in Vladimir Putin's favour, observers say

International monitors report that result was never in doubt amid allegations of ballot-rigging and 'carousel voting'

Miriam Elder in Moscow  
guardian.co.uk, Monday 5 March 2012 12.49 GMT  
Article history



A screen shows a portrait of Vladimir Putin with preliminary poll results at the headquarters of Russian's election commission. Photograph: Sergei Ilitsky/EPA

The Russian presidential election was "clearly skewed" in favour of Vladimir Putin, an international team of observers has concluded.

Their report has fuelled opposition activists' anger at Putin's return to the presidency.

Tonino Picula, the head of an observer mission run by the Organisation for Security and Co-operation in Europe, said the result was never in doubt and the vote had offered no genuine competition.

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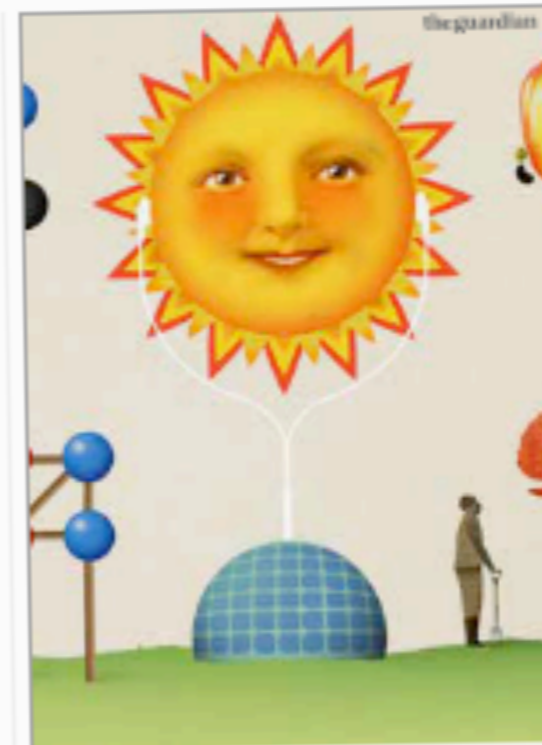
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Background  
Decision  
Impact  
**Outcomes**



```
package controllers

import play.api.mvc._
import content.Article

object ArticleController extends Controller {

  def render(path: String) = Action {
    Article.byId(path) map { renderArticle } getOrElse { NotFound }
  }

  private def renderArticle(article: Article) = Ok(views.html.article(article))
}
```

A screen shows a portrait of Vladimir Putin with preliminary poll results at the headquarters of Russian's election commission. Photograph: Sergei Ilnitsky/EPA



Reaction to Putin's victory -

Watch the documentary watch online

<https://github.com/guardian/frontend-article>

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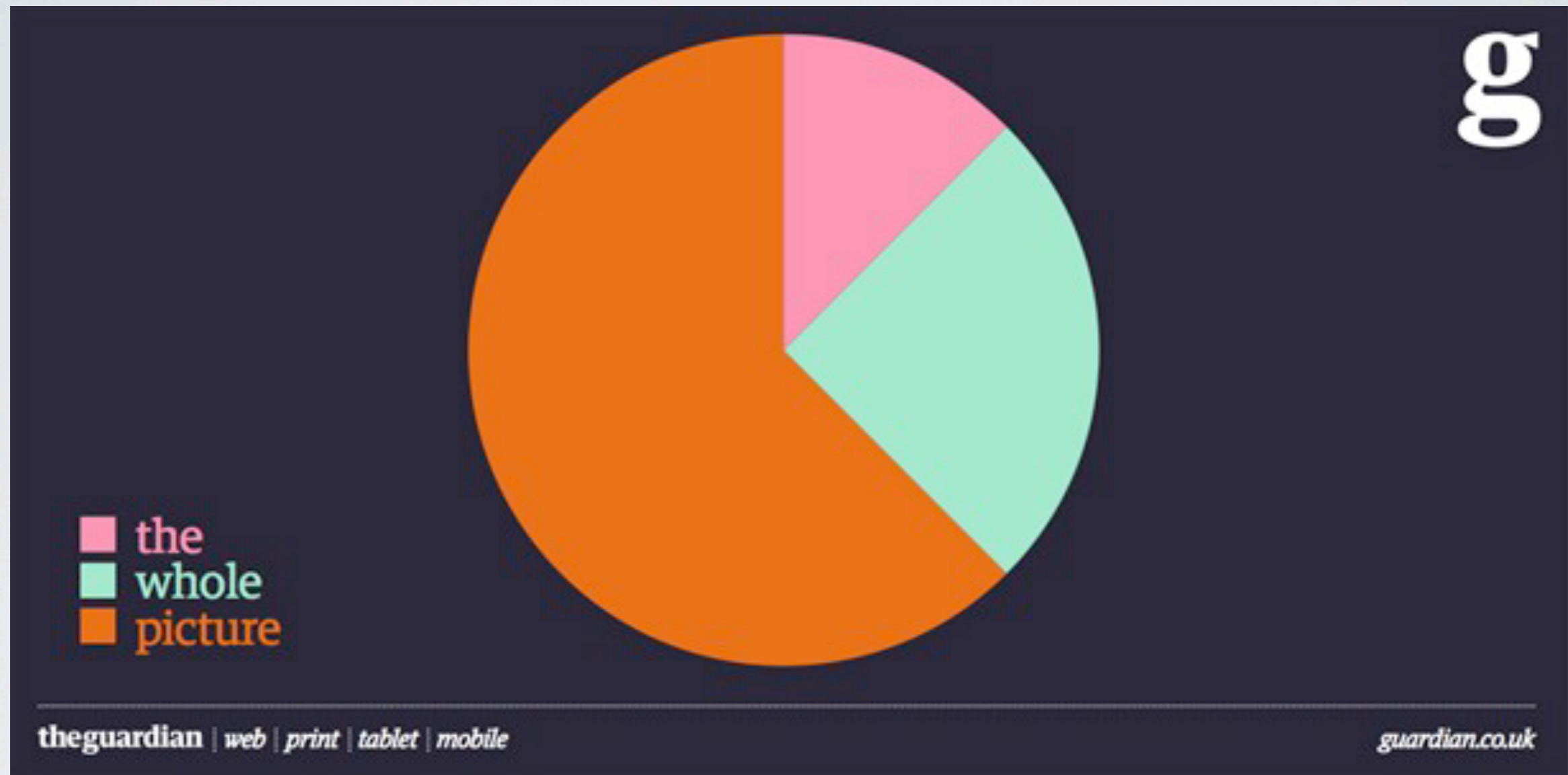


# Scala

Architectural Evolution  
over  
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