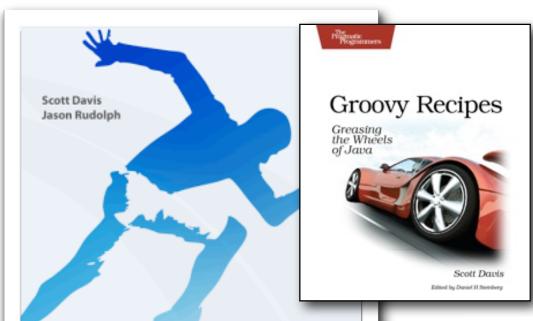






ThirstyHead.com

training done right.





Scott Davis



Getting Started with Grails Second Edition

A modern web framework for the Java platform

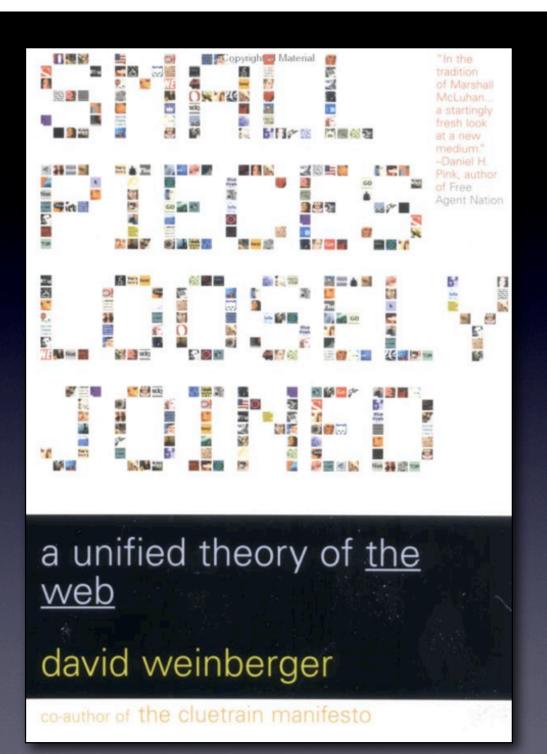
ENTERPRISE SOFTWARE

InfoQ

developerWorks > Java technology

Mastering Grails
Practically Groovy

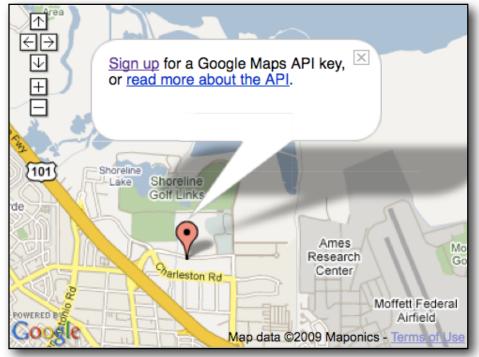
Web Services



PayPal











When I say, "Web Services"

...what do you think of?



ITConversations a GigaVox Media Channel



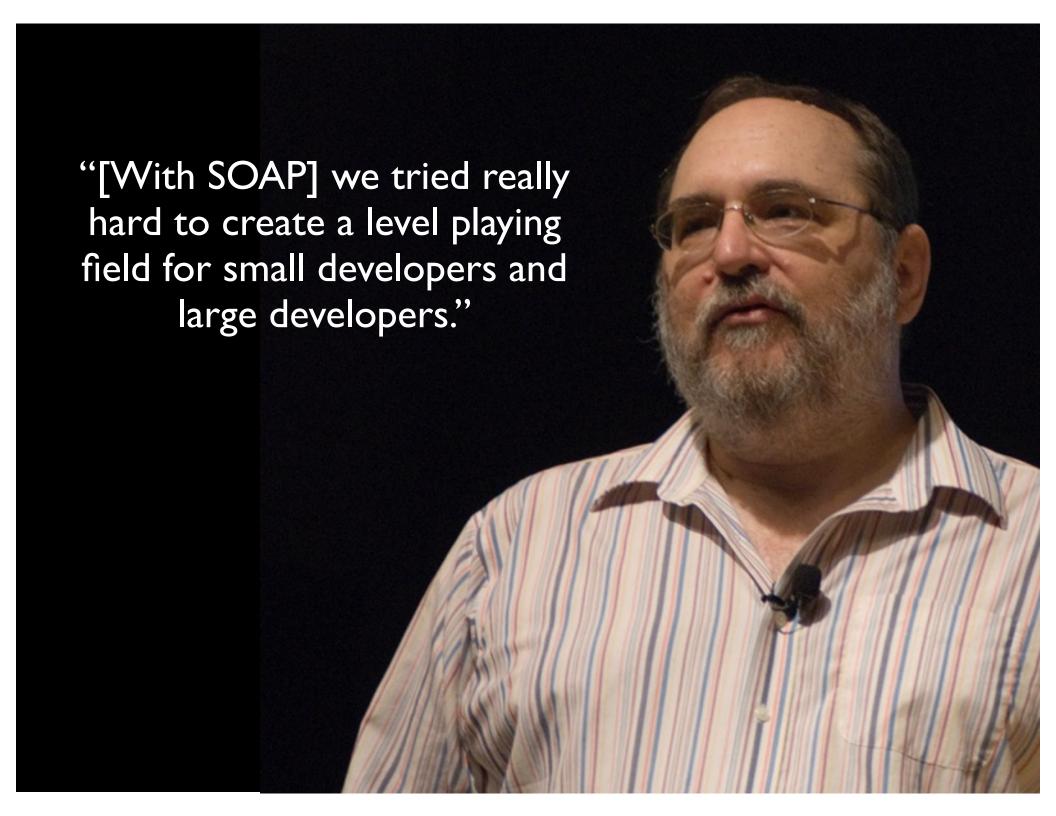
Dave Winer, co-creator of XML-RPC, SOAP, and RSS:

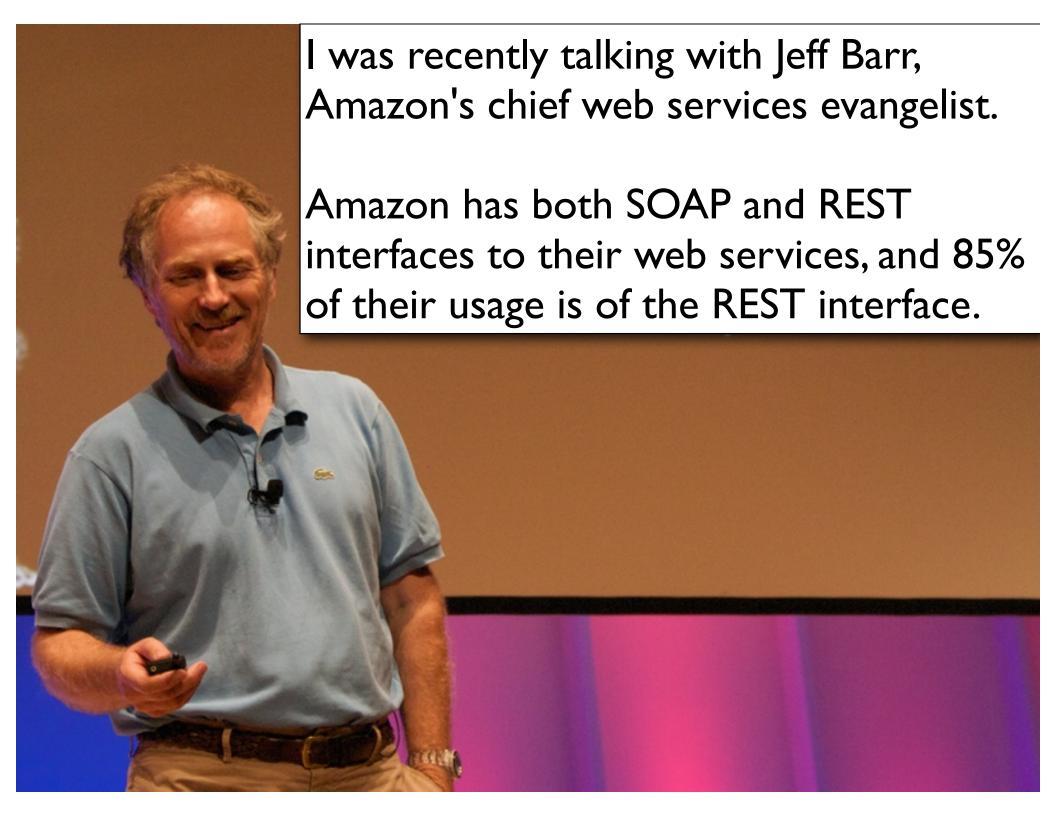


I love SOAP.

SOAP was the lawyer of the family. It was the one that had the potential to bring everyone together.

But you'd have to say at this point that SOAP is a failure. How long are we supposed to wait for the magic of SOAP to happen?







I've always liked technologies that have low barriers to entry and grassroots adoption, and simple XML over HTTP approach seems to have that winning combination.



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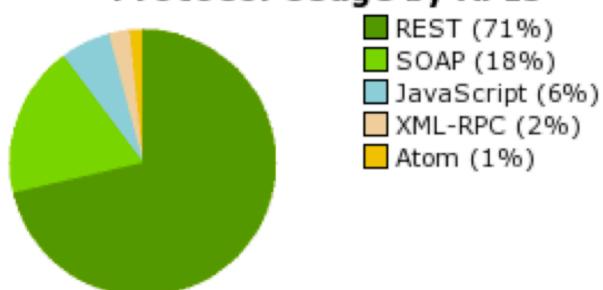
APIs

4734

Mashups



Protocol Usage by APIs



ProgrammableWeb.com 04/08/10

RESTful Geocoder
RESTful Rhyming API



SOAP

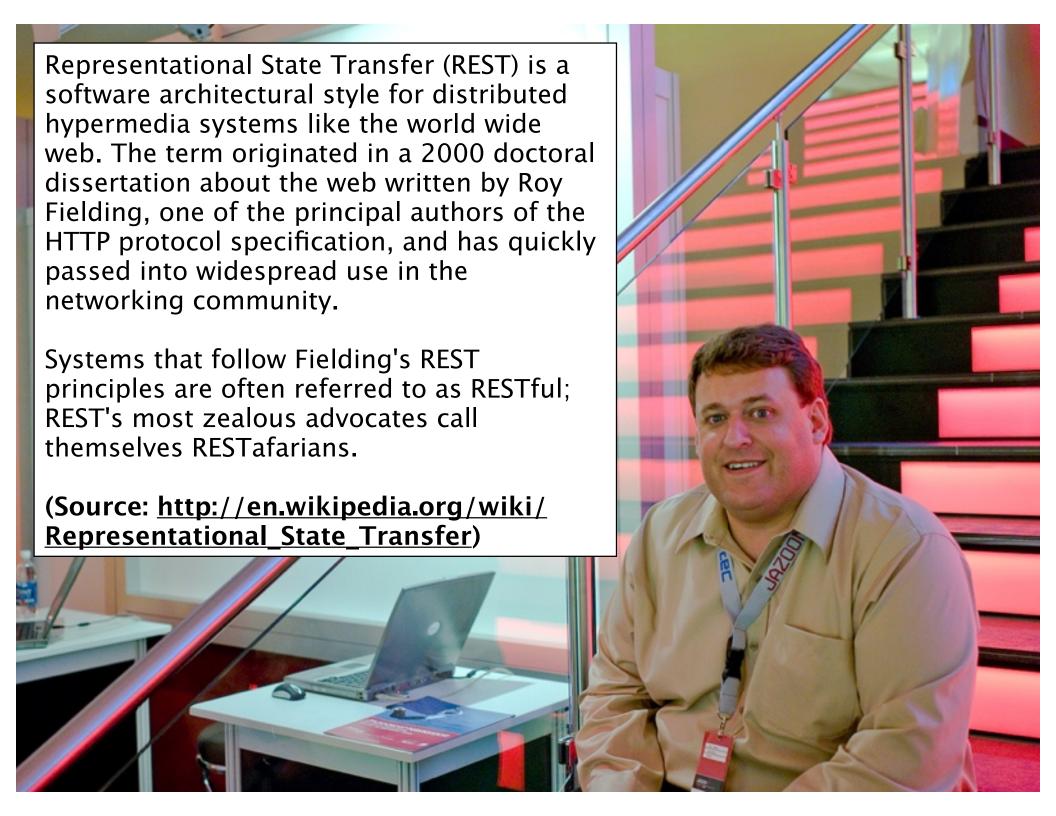
A specification

REST

A set of architectural principles

REST is...

REpresentational **S**tate **T**ransfer



Service-Oriented Architecture (RPC, verb-oriented)

Resource-Oriented Architecture (noun-oriented)

[edit]

REST versus RPC

A REST web application requires a different design approach than an RPC application. In RPC, the emphasis is on the diversity of protocol operations, or *verbs*; for example, an RPC application might define operations such as the following:

```
getUser()
addUser()
removeUser()
updateUser()
getLocation()
addLocation()
removeLocation()
updateLocation()
listUsers()
listLocations()
findLocation()
findUser()
```

With REST, on the other hand, the emphasis is on the diversity of resources, or *nouns*; for example, a REST application might define the following two resource types

```
User {}
Location {}
```

Each resource would have its own location, such as

http://www.example.org/locations/us/ny/new_york_city. Clients work with those resources through the standard HTTP operations, such as GET to download a copy of the resource, PUT to upload a changed copy, or DELETE to remove all representations of that resource. Note how each object has its own URL and can easily be cached, copied, and bookmarked. POST is generally used for actions with side-effects, such as placing a purchase order, or adding some data to a collection.

RESTful Grails



SOAP A SOA implementation

???

A ROA implementation

Syndication







Three things draw you in:

chronology (newest first)

syndication

(it comes to you)

permalink (pass it on)





(0)

sdavis9999

Account | QuickList (0) | Help | Sign Out

Home

Videos

Channels

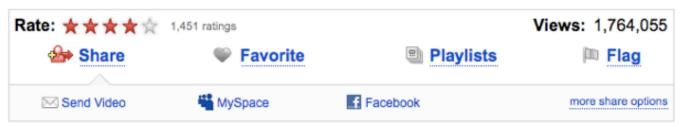
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Anakin rescues Yoda







Legodude123 September 12, 2006

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(more info)

Count Dooku has captured Yoda, and Anakin has been sent by the Jedi Council to free Yoda and destroy Dooku.

URL http://www.youtube.com/watch?v=LAyF9GisN



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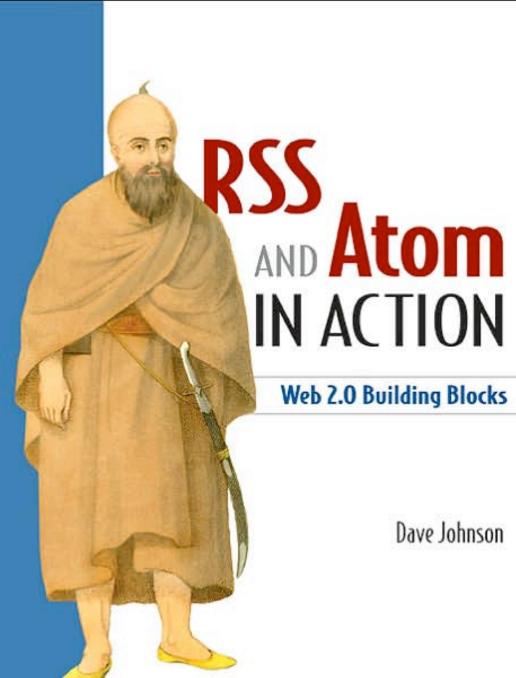
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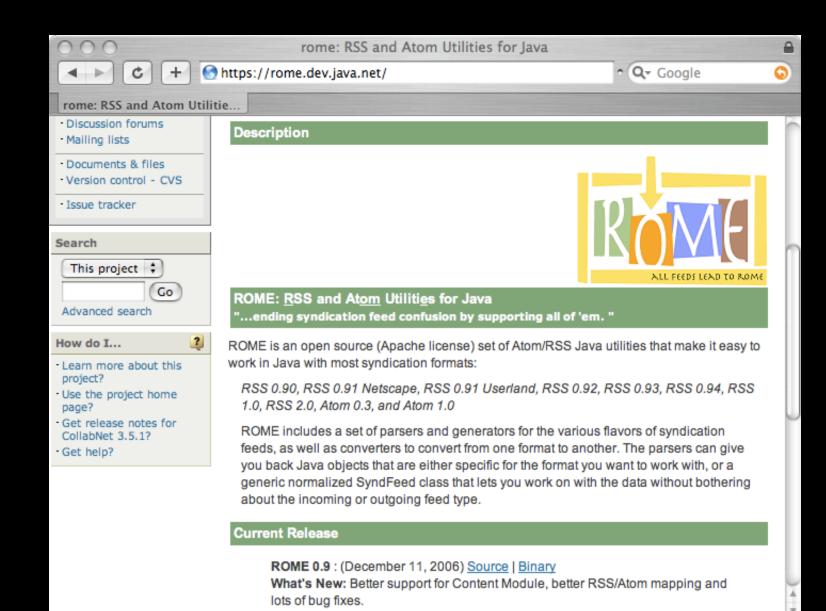
Syndication

ATOM FEED

RSS 1.0

RSS 2.0

MANNING



What is RSS?

- RDF Site Summary
- Rich Site Summary
- Really Simple Syndication
- Nothing: just three plain old letters

It's a pity nobody used an 'S' for "Standardization" ...

RSS' Troubled Childhood



	When?	Who?
RSS 0.9	Jan 1999	Netscape
RSS 0.91	Jul 1999	Netscape
RSS 0.91	Jun 2000	Dave Winer
RSS 1.0	Dec 2000	RSS-DEV
RSS 0.92	Dec 2000	Dave Winer
RSS 0.93	Apr 2001	Dave Winer
RSS 0.94	Jun 2002	Dave Winer
RSS 2.0	Aug 2002	Dave Winer
RSS 2.0.1	Jul 2003	Harvard

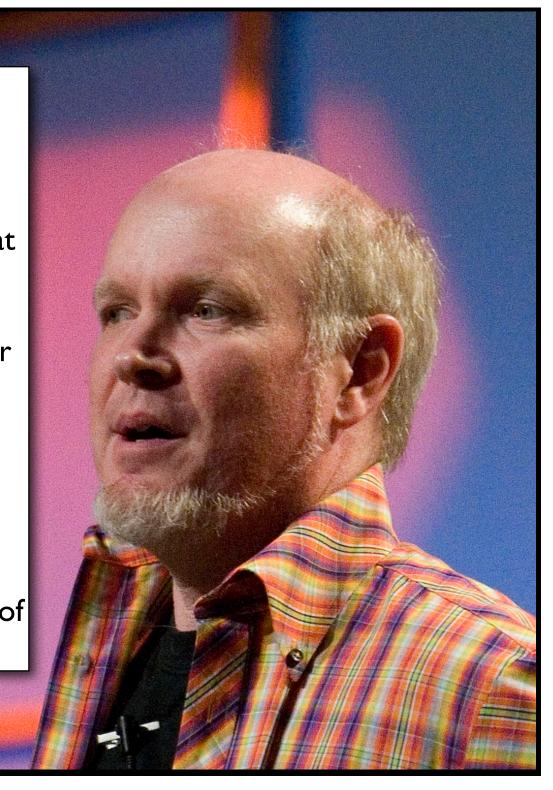
Source: RSS and Atom in Action

RSS: Yahoo! Weather



When Atom emerged as a format intended to rival or replace RSS, CNET described the motivation of its creators as follows: "Winer's opponents are seeking a new format that would clarify RSS ambiguities, consolidate its multiple versions, expand its capabilities, and fall under the auspices of a traditional standards organization."

A brief description of some of the ways Atom I.0 differs from RSS 2.0 has been given by Tim Bray, who played a major role in the creation of Atom:





The Atom syndication format was published as an IETF proposed standard in RFC 4287

The Atom Publishing Protocol was published as RFC 5023.

SOAPA SOA implementation

Atom A ROA implementation

The Atom Publishing Protocol uses HTTP to edit and author web resources. The Atom Protocol uses the following HTTP methods:

GET is used to retrieve a representation of a resource or perform a query. **POST** is used to create a new, dynamically-named resource. **PUT** is used to update a known resource. **DELETE** is used to remove a resource.

(Source: http://ietfreport.isoc.org/idref/draft-ietf-atompub-protocol/)

An example of a document in the Atom Syndication Format:

```
<?xml version="1.0" encoding="utf-8"?>
<feed xmlns="http://www.w3.org/2005/Atom">
<title>Example Feed</title>
<subtitle>A subtitle.</subtitle>
k href="http://example.org/feed/" rel="self"/>
<link href="http://example.org/"/>
<updated>2003-12-13T18:30:02Z</updated>
<author>
  <name>John Doe</name>
  <email>johndoe@example.com</email>
</author>
<id>urn:uuid:60a76c80-d399-11d9-b91C-0003939e0af6</id>
<entry>
  <title>Atom-Powered Robots Run Amok</title>
  href="http://example.org/2003/12/13/atom03"/>
  <id>urn:uuid:1225c695-cfb8-4ebb-aaaa-80da344efa6a</id>
  <updated>2003-12-13T18:30:02Z</updated>
  <summary>Some text.
</entry>
</feed>
```

Who is using Atom?

Beyond the SOAP Search API

Dec 20, 2006 - Permalink

Post by Mark Lucovsky, Software Engineer

On December 5th, we stopped accepting new sign-ups for the Google SOAP Search API. This change does not impact current users of the SOAP Search API -- you can continue to execute queries, and we have no plans to turn off the service in the future.

While the product was Google's first API and inspired a lot of Google's current developer products, we are no longer devoting resources to increase the capacity of the service, instead focusing our efforts on the AJAX Search API. While the AJAX Search API does not provide server-side access to search results, it has a number of more powerful features, including access to Video, Maps, Blog Search, and News search results.

Google Data APIs (Beta) Developer's Guide

Use Data from Google on Your Own Website

Get Started with GData

The Google data APIs ("GData" for short) provide a simple standard protocol for reading and writing data on the web.

GData uses either of two standard XML-based syndication formats: Atom or RSS. It also has a feed-publishing system that consists of the Atom publishing protocol plus some extensions (using Atom's standard extension model) for handling queries.

Each of the following Google services provides a Google data API:

- Google Apps Provisioning
- Google Base
- Blogger
- Google Calendar
- Google Code Search
- Google Notebook
- Google Spreadsheets

Google Calendar Data API Overview

Start using the Calendar data API

Google Calendar allows client applications to view and update calendar events in the form of Google data API ("GData") feeds. Your client application can use the Google Calendar data API to create new events, edit or delete existing events, and query for events that match particular criteria.

Here are some of the things you can do with the Calendar data API:

- Create a web front end to let people view their Google Calendar information from within your site.
- Publicize upcoming events by programmatically adding them to Google Calendar.
- Mix and match Google APIs—for example, display upcoming events in Google Maps by combining the Google Calendar data API and the Google Maps API.



You can use our API to integrate Twitter search results with your own apps, clients, and readers. Check out these great examples of apps utilizing our API. We currently serve two flavors of our Search API: Atom and JSON.

In the near future, the Search API will be updated to more closely reflect the <u>Twitter REST API</u>, and we'll support XML responses as well.

Formats

Atom

You can grab the search results for any query as a standard Atom feed. For example, this is the <u>Atom feed</u> for the query <u>twitter</u>. For example, to request search results in Atom, append your URL-encoded query as a parameter to the search method and specify the Atom format:

http://search.twitter.com/search.atom?q=<query>

JSON

You can also request search results in JSON format. For example, this is the <u>JSON response</u> for the query <u>twitter</u>. Note that the tweet content is HTML-encoded. To request search results in JSON, append your URL-encoded query as a parameter to the search method and specify the JSON format:

http://search.twitter.com/search.json?q=<query>

Requests for JSON support an additional URL parameter:

callback: if supplied, the response will use the JSONP format with a callback of the given name.
 Ex: http://search.twitter.com/search.json?callback=foo&q=twitter

Atom: Twitter API



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Resource-Oriented Architecture (noun-oriented)

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Scott Davis scott@thirstyhead.com

Questions? Thanks for your time.

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