



DE FACTO  
Observatory  
of Information

# D1.6 Fact-Checking Pivot Format - A Guide to a RSS pivot format, including ClaimReview and MediaReview

*For Fact Checks Feed Providers*



D1.6 Fact-Checking Pivot Format - A Guide to a RSS pivot format, including ClaimReview and MediaReview: For Fact Checks Feed Providers

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# 1. Introduction

This document, produced as part of the European ([DE FACTO](#)) project, is a guide to set up a RSS pivot format including the ClaimReview and MediaReview specifications defined by the Schema.org consortium, for fact-checking articles.

This guide is intended to provide a common pivot format for the fact-checking supplier's partners of the DeFacto project. All items listed are important for distributing fact-checking articles with a maximum of metadata.

However, it remains a state of the art of good practices, a recommendation, to set up the richest possible RSS feed for the purposes of automating as much as possible content ingestion within the EDMO regional and national hubs, as well as improving indexing, referencing, and data reuse e.g. to build disinformation databases.

It is therefore more of an objective to be achieved within the framework of the project than a strict requirement.

## 2. RSS elements

The description of the recommended RSS pivot format reuses the standards defined by the RSS 2.0 format as well as the existing extensions. The full RSS format specification can be accessed at <https://www.rssboard.org/rss-2-0-1>.

### 2.1. RSS feeds

Elements	
<b>channel</b>	Definition of the fact-checking operator

### 2.2. channel

Elements	
<b>title</b>	Title of the RSS feed
<b>link</b>	Link of the RSS feed or homepage of the site
<b>language</b>	Language of the RSS feed
<b>at:delete-entry</b> <sup>[1]</sup>	Element used for an item, in the RSS feed, that has been removed or should not be used (kill). Namespace declaration should be added in the rss content xmlns:at="http://purl.org/atompub/tombstones/1.0".
<b>item</b>	An <b>item</b> for each publication of a verification article (fact-check). <a href="https://www.rssboard.org/rss-profile#element-channel-item">https://www.rssboard.org/rss-profile#element-channel-item</a>

#### Example RSS channel

```
<rss version="2.0" xml:base="https://factuel.afp.com/" xmlns:schema="https://schema.org"
      xmlns:media="http://search.yahoo.com/mrss/"
      xmlns:content="http://purl.org/rss/1.0/modules/content/"
      xmlns:at="http://purl.org/atompub/tombstones/1.0">
  <channel>
    <title>AFP Factuel</title>
    <link>https://factuel.afp.com</link>
    <language>fr</language>
    <at:deleted-entry ref="http://d.afp.com/doc-kill" when="2022-02-12T12:12:23" />
    <item>
      <guid isPermalink="false">http://d.afp.com/doc-kill</guid>
      <title>killed item</title>
      <link>https://factuel.afp.com/doc.afp.com.kill</link>
      ...
    </item>
    <item>
      <guid isPermalink="false">http://d.afp.com/doc-valid-1</guid>
      <title>valid item 1</title>
      <link>https://factuel.afp.com/valid-item-1</link>
      ...
    </item>
  </channel>
</rss>
```

```

</item>
<item>
  <guid isPermalink="false">http://d.afp.com/doc-valid-2</guid>
  <title>valid item 2</title>
  <link>https://factuel.afp.com/valid-item-2</link>
  ...
</item>
</channel>
</rss>

```

## 2.3. Item

In addition to the existing RSS elements, the pivot format defines additional elements allowing the additional support of useful data. <https://www.rssboard.org/rss-specification#extendingRss>

These elements use the following namespaces:

Prefix	Namespace	Support
<b>schema</b>	<a href="https://schema.org">https://schema.org</a>	Schema.org community-defined elements for the support of ClaimReview and MediaReview <a href="https://schema.org">https://schema.org</a>
<b>media</b>	<a href="http://search.yahoo.com/mrss/">http://search.yahoo.com/mrss/</a>	RSS module used as a complement to the <enclosure> element defining the media used by the article. <a href="https://www.rssboard.org/media-rss">https://www.rssboard.org/media-rss</a>
<b>content</b>	<a href="http://purl.org/rss/1.0/modules/content/">http://purl.org/rss/1.0/modules/content/</a>	RSS 1.0 module for supporting website content in any format. <a href="https://web.resource.org/rss/1.0/modules/content/">https://web.resource.org/rss/1.0/modules/content/</a>
<b>atom</b>	<a href="http://www.w3.org/2005/Atom">http://www.w3.org/2005/Atom</a>	Atom community-defined elements

Elements	
<b>title</b>	Article title <a href="https://www.rssboard.org/rss-profile#element-channel-textinput-title">https://www.rssboard.org/rss-profile#element-channel-textinput-title</a>
<b>guid</b>	<p>Unique identifier of the article.</p> <p>Attribute:</p> <ul style="list-style-type: none"> <li>• isPermaLink <ul style="list-style-type: none"> <li>◦ true (default): in that case, the guid must be a permanent URL of the article</li> <li>◦ false : in that case, the guid must respect the format defined by <a href="#">Tag URI scheme</a>.</li> </ul> </li> </ul> <p><a href="https://www.rssboard.org/rss-profile#element-channel-item-guid">https://www.rssboard.org/rss-profile#element-channel-item-guid</a></p>

Elements	
<b>schema:version</b>	Article version. Increment number for each revision.
<b>link</b>	URL of the fact check article on your site <a href="https://www.rssboard.org/rss-profile#element-channel-item-link">https://www.rssboard.org/rss-profile#element-channel-item-link</a>
<b>pubDate</b>	Publication date of the article in dateTime format. The recommended DE FACTO date time format is <b>ISO 8601</b> with the time zone indicated as an offset from UTC, for instance: 2022-04-29T11:36:31+01:00.  <a href="https://www.rssboard.org/rss-profile#element-channel-item-pubdate">https://www.rssboard.org/rss-profile#element-channel-item-pubdate</a>
<b>atom:updateDate</b>	Last article update date in dateTime format
<b>schema:review</b>	An element containing ClaimReview and/or MediaReview to describe the statement or media that was checked. The content is in json-ld format escaped into a CDATA section. Attribute: <ul style="list-style-type: none"><li>• <b>encodingFormat</b> (mandatory) ⇒ defines the mime type of the content. For ClaimReview and MediaReview elements, the type is always <b>application/ld+json</b></li></ul>
<b>content:encoded</b>	Full content or the first paragraphs of the article in HTML format escaped into a CDATA section. This content is meant to be automatically ingested by Content Management Systems or other automatic processes. DE FACTO is expected to get the full content to feed its CMS. <a href="https://www.rssboard.org/rss-profile#namespace-elements-content-encoded">https://www.rssboard.org/rss-profile#namespace-elements-content-encoded</a> <a href="https://web.resource.org/rss/1.0/modules/content/">https://web.resource.org/rss/1.0/modules/content/</a>
<b>description</b>	Short summary or first paragraph of the article in text. Essential element for RSS readers. <a href="https://www.rssboard.org/rss-profile#element-channel-item-description">https://www.rssboard.org/rss-profile#element-channel-item-description</a>
<b>enclosure</b>	Illustrative image of the article. For compatibility with RSS aggregators, there should be no more than one <b>enclosure</b> . Required attributes: <ul style="list-style-type: none"><li>• url ⇒ media link</li><li>• type ⇒ media mime type</li><li>• length ⇒ media size</li></ul> <a href="https://www.rssboard.org/rss-profile#element-channel-item-enclosure">https://www.rssboard.org/rss-profile#element-channel-item-enclosure</a>
<b>media:content or media:group</b>	An element which supplements the enclosure element for additional description of any type of media. If there are several contents, the element is repeated. If the same content in different formats, <b>media:group</b> is used. <a href="https://www.rssboard.org/media-rss#primary-elements">https://www.rssboard.org/media-rss#primary-elements</a>
<b>author</b>	Name of the author of the article. The element is repeated when there are several authors. <a href="https://www.rssboard.org/rss-profile#element-channel-item-author">https://www.rssboard.org/rss-profile#element-channel-item-author</a>

Elements	
<b>category</b>	Definition of a category linked to the article. This can be done with free text or by using a taxonomy defined by the <b>domain</b> in the case of a controlled vocabulary. The element is repeated when there are several categories. <a href="https://www.rssboard.org/rss-profile#element-channel-item-category">https://www.rssboard.org/rss-profile#element-channel-item-category</a>

### 2.3.1. Support for IPTC codes in the category element

In order to standardize the content of **categories**, it is possible to use the codes defined by the IPTC or other standardized domains. The definition of the domain to which the codes belong is specified by the use of the **domain**.

#### 2.3.1.1. Examples

The use of IPTC codes in category elements is done via the **domain**.

##### IPTC Category

```
<category domain="https://cv.iptc.org/newsCodes/subjectCode">04008033</category>
```

##### Media topic

```
<category domain="https://iptc.org/standards/media-topics">2000337</category>
```

#### 2.3.1.2. Example with categories defined by an AFP factcheck

##### Media topic in text

```
<category>Media topic/Conflicts, wars and peace</category>
<category>Media topic/Science and technology</category>
<category>Media topic/Politics</category>
<category>Media topic/Politics/Elections</category>
<category>Media topic/Politics/Elections/campaign Election</category>
<category>Media topic/Society</category>
<category>Media topic/Science and technology/Social sciences</category>
<category>Media topic/Science and technology/Social sciences/History</category>
<category>Media topic/Conflicts, wars and peace/Massacre</category>
<category>Media topic/Religion and belief</category>
<category>Media topic/Society/Discrimination</category>
<category>Media topic/ Society/Discrimination/Racism</category>
```

##### Media topic with IPTC defined codes

```
<category domain="https://iptc.org/standards/media-topics">16000000</category>
<category domain="https://iptc.org/standards/media-topics">13000000</category>
<category domain="https://iptc.org/standards/media-topics">11000000</category>
<category domain="https://iptc.org/standards/media-topics">20000574</category>
```

```
<category domain="https://iptc.org/standards/media-topics">20000580</category>
<category domain="https://iptc.org/standards/media-topics">14000000</category>
<category domain="https://iptc.org/standards/media-topics">20000742</category>
<category domain="https://iptc.org/standards/media-topics">20000747</category>
<category domain="https://iptc.org/standards/media-topics">20000071</category>
<category domain="https://iptc.org/standards/media-topics">12000000</category>
<category domain="https://iptc.org/standards/media-topics">20000775</category>
<category domain="https://iptc.org/standards/media-topics">20000777</category>
```

### 2.3.2. ISO 316 Country Code 6

The country codes defined by the ISO 3166 standard can be used by specifying one of the following values for the **domain** :

- <https://www.iso.org/iso-3166-2> ⇒ 2-letters country code
- <https://www.iso.org/iso-3166-3> ⇒ 3-letters country

*Example Country Code*

```
<category>Location/France</category>
<category domain="https://www.iso.org/iso-3166-2">EN</category>
<category domain="https://www.iso.org/iso-3166-3">ENG</category>
```

*Country code with Geonames*

```
<category domain="https://www.geonames.org">2988507</category>
```

## 2.4. Content RSS - content:encoded

Element uses for the content of the factcheck article. It is defined by RDF module Content : <https://web.resource.org/rss/1.0/modules/content/>. Element is prefixed with **content**

The use of **content:encoded** element allows to set any entity-encoded or CDATA-escaped version of the content of the item.

*Exemple content:encoded with HTML*

```
<content:encoded><![CDATA[
    <h3 itemprop="leadparagraph" style="text-align: justify;">The unprecedented attacks launched by the
    Hamas militant group against Israel and the country's subsequent retaliation in the Palestinian enclave of
    Gaza are creating a minefield of misleading images and videos on social media. Posts purporting to show a
    Hamas fighter shooting down an Israeli "war helicopter" in Gaza circulated online a day after the latest
    conflict began. But the claim is false: the clip is a scene from a war simulation video game. </h3>
    <p style="text-align: justify;">"Hamas fighters shooting down Israel war helicopter in Gaza
    (<em>sic</em>)," reads a <a href="https://perma.cc/59W4-7UNS" shape="rect">post</a> published on
    Instagram on October 8, 2023.</p>
    <p style="text-align: justify;"><div class="g2picture"><figure itemscope
    itemtype="http://schema.org/ImageObject"><figcaption><span
itemprop="caption">A screenshot shows the false claim, taken on October 10, 2023
</span></figcaption></figure></div></p>
...]]>
</content:encoded>
```

## 2.4.1. HTML media html structure

Content that embeded media contents such images and videos uses HTML5 element **figure** included inside a **div** element with a NewsMLG2 class attribute.

### class attribute for media

<b>g2picture</b> <small>[2]</small>	any image content (gif, jpg, png, etc)
<b>g2video</b>	any video content (mp4, ogg, etc)

Figure struture for media content

### Attributes

<b>itemscope</b>	Defines the scope of associated metadata. No value.
<b>itemtype</b>	Possilbe values: <ul style="list-style-type: none"> <li>• <a href="https://schema.org/ImageObject">https://schema.org/ImageObject</a></li> <li>• <a href="https://schema.org/VideoObject">https://schema.org/VideoObject</a></li> </ul>

### Elements

<b>img   video</b>	Media type
<b>figcaption</b>	Use for caption or legend. It contains media description and credit information. Content data are set with span or div element with the following itemprop: <ul style="list-style-type: none"> <li>• <b>caption</b> ⇒ For media description</li> <li>• <b>credit</b> ⇒ For media credit with <b>author</b> or/and <b>provider</b></li> </ul>

*Example image with description & credit*

```

<div class="g2picture">
<figure itemscope itemtype="https://schema.org/ImageObject">

<figcaption>
<span itemprop="caption">Video description</span>
<div itemprop="credit">
<span itemprop="author">Medialab</span><span itemprop="author">AFP</span>
<span itemprop="provider">Vera.ai</span>
</div>
</figcaption>
</figure>
```

```
</div>
```

#### Example animated video with description & credit

```
<div class="g2video">
  <figure itemscope itemtype="https://schema.org/VideoObject">
    <video autoplay loop muted>
      <source
        src="vera-animated-video-dea957758d4ae5019c152c6d02930474.mp4"
        type="video/mp4"
      />
    </video>
    <figcaption>
      <span itemprop="caption">Video description</span>
      <div itemprop="credit">
        <span itemprop="author">Medialab</span><span itemprop="author">AFP</span>
        ><span itemprop="provider">Vera.ai</span>
      </div>
    </figcaption>
  </figure>
</div>
```

#### 2.4.1.1. Animated video as animated Gif

Animated video are short videos that act as animated Gif. In order to behave as such, **video** HTML element should use the following attributes:

- autoplay
- loop
- muted

```
<video autoplay loop muted>
...
</video>
```

#### 2.4.1.2. Credit css style separator

Several author and provider elements can be set in the credit. In order to display them with a separator, following CSS style can be apply by default:

```
figcaption>div[itemprop="credit"]>span:after {
  content: "/ ";
}
figcaption>div[itemprop="credit"]>span:last-child:after {
  content: "";
}
```

## 2.4.2. HTML Media Warning metadata

Warning metadata is used to qualify if the content of a media may be perceived as being offensive. Warning Metadata are using IPTC's contentwarning definition (<https://cv.iptc.org/newsCodes/contentwarning>). Some of the most common terms use below.

Values <a href="https://cv.iptc.org/newsCodes/contentwarning">https://cv.iptc.org/newsCodes/contentwarning</a>	
<b>death</b>	Could be perceived as offensive due to the discussion or display of death
<b>language</b>	Could be perceived as offensive due to the language used
<b>nudity</b>	Could be perceived as offensive due to nudity
<b>sexuality</b>	Could be perceived as offensive due to the discussion or display of sexuality
<b>suffering</b>	Could be perceived as distressing due to the discussion or display of suffering or triggering topics, including suicide, eating disorders or self harm
<b>violence</b>	Could be perceived as offensive due to the discussion or display of violence

ContentWarning are used with microdata format using the following pattern:

```
<span itemscope itemtype="https://cv.uptc.org/newsCodes">
  <meta itemprop="contentwarning" content="{}" />
  <meta itemprop="contentwarning" content="{}" />
  ...
</span>
```

*Example contentWarning on image*

```
<div class="g2picture">
  <figure itemscope itemtype="https://schema.org/ImageObject">
    <span itemscope itemtype="https://cv.uptc.org/newsCodes">
      <meta itemprop="contentwarning" content="language" />
      <meta itemprop="contentwarning" content="nudity" />
    </span>
    
    <figcaption>
      <span itemprop="caption">Video description</span>
      <div itemprop="credit">
        <span itemprop="author">Medialab</span><span itemprop="author">AFP</span>
        ><span itemprop="provider">Vera.ai</span>
      </div>
    </figcaption>
  </figure>
</div>
```

## 2.5. Media RSS - media:content

Media RSS elements are defined here: <https://www.rssboard.org/media-rss.namespace>

## <http://search.yahoo.com/mrss/> prefixed with **media**.

The use of elements defined by the media-rss extension allows adding metadata on media contained in the article. Attributes and child elements of **media:content**.

### Attributes <https://www.rssboard.org/media-rss#media-content>

<b>url</b>	Link to media content.
<b>fileSize</b>	Size in bytes of media content.
<b>height</b>	Height display size of the content.
<b>width</b>	Width display size of the content.
<b>type</b>	Media mime type.
<b>medium</b>	Type of media object (image   audio   video   document   executable). It simplifies decision making on the reader side and avoid ambiguities between Mine Type.

### Elements

<b>media:credit</b>	Media credit Optional attributes: <ul style="list-style-type: none"><li>• <b>scheme</b> ⇒ possible values are <b>urn:ebu (default)</b> or <b>urn:yvs</b>. attribute role</li><li>• <b>role</b> ⇒ value defined by domain scheme. By default, <b>urn:ebu</b> are defined by the European Broadcasting Union Role Codes.</li></ul> <a href="https://www.rssboard.org/media-rss#media-credit">https://www.rssboard.org/media-rss#media-credit</a>
<b>media:copyright</b>	Media copyright information Optional attribute: <ul style="list-style-type: none"><li>• <b>url</b> ⇒ link to terms of use or copyright information.</li></ul> <a href="https://www.rssboard.org/media-rss#media-copyright">https://www.rssboard.org/media-rss#media-copyright</a>
<b>media:description</b>	Short description of the media. Optional attribute: <ul style="list-style-type: none"><li>• <b>type</b> ⇒ type of description text. Two possible values: <b>plain</b> (default), <b>html</b>.</li></ul> <a href="https://www.rssboard.org/media-rss#media-description">https://www.rssboard.org/media-rss#media-description</a>

Elements	
<b>media:player</b>	<p>Allows to embed a remote player to play a media (audio or video) via an iframe. This element is required only if a direct media url attribute is not specified in the media:content element. It has the following attributes:</p> <ul style="list-style-type: none"> <li>• <b>url</b>: URL of the player that plays the media (required attribute)</li> <li>• <b>height</b>: height of the player (optional)</li> <li>• <b>width</b>: width of player (optional)</li> </ul> <p><a href="https://www.rssboard.org/media-rss#media-player">https://www.rssboard.org/media-rss#media-player</a></p>
<b>media:embed</b>	<p>Sometimes player-specific embed code is needed for a player to play any video or audio. The media:embed element allows inclusion of such information in the form of key-value pairs with the media:param subelement.</p> <p><a href="https://www.rssboard.org/media-rss#media-embed">https://www.rssboard.org/media-rss#media-embed</a></p>
<b>media:thumbnail</b>	<p>Allows particular images to be used as representative images for the media object. This element can be used typically in combination with the media:embed element, to provide a representative image of a video. Attributes:</p> <ul style="list-style-type: none"> <li>• <b>url</b>: URL of the representative image</li> <li>• <b>width</b>: image width</li> <li>• <b>height</b>: image height</li> </ul> <p><a href="https://www.rssboard.org/media-rss#media-thumbnails">https://www.rssboard.org/media-rss#media-thumbnails</a></p>

## 2.5.1. media:group

The media:group element can be used to group multiple media:content elements that have the same content in different forms, for example, different resolutions.

*Example: content distributed with different resolutions.*

```
<media:group>
  <media:content fileSize="4696063" height="3333" type="image/jpeg"
    url="medias/dea3220d9b4815e97477c8fa42ea0f9af93196ea-highRes.jpg" width="5000"
    medium="image">
    <media:credit>AFP</media:credit>
  </media:content>
  <media:content fileSize="234803" height="166" type="image/jpeg"
    url="medias/dea3220d9b4815e97477c8fa42ea0f9af93196ea-lowRes.jpg" width="250" medium="image">
    <media:credit>AFP</media:credit>
  </media:content>
  <media:content url="medias32MT6DP_3-640x360.mp4" medium="video" type="video/mp4">
    <media:credit>John Doe / afptv</media:credit>
```

```
</media:content>  
</media:group>
```

*Example: multimedia object embed*

```
<media:content>  
  <media:player url="https://peertube.fr/videos/embed/7bc5577c-b711-4a2e-9d58-1af327416688"/>  
  <media:embed>  
    <media:param name="width">850</media:param>  
    <media:param name="height">480</media:param>  
    <media:param name="title">JDLL</media:param>  
    <media:param name="allowFullScreen">true</media:param>  
    <media:param name="frameborder">0</media:param>  
    <media:param name="allow">encrypted-media; picture-in-picture</media:param>  
  </media:embed>  
  <media:thumbnail url="https://peertube.fr/lazy-static/previews/2bd21b07-80a1-4dbe-8694-  
  93f8cd805fd1.jpg" height="480" width="850"/>  
</media:content>
```

## 2.6. Example RSS Feed

*Simple Example*

```
<rss version="2.0" xml:base="https://factuel.afp.com/" xmlns:schema="https://schema.org"  
  xmlns:media="http://search.yahoo.com/mrss/"  
  xmlns:content="http://purl.org/rss/1.0/modules/content/">  
  <channel>  
    <title>AFP Factuel</title>  
    <link>https://factuel.afp.com</link>  
    <language>fr</language>  
    <item>  
      <guid>http://d.afp.com/doc-9zb9xd-5</guid>  
      <title>Les juifs français 'protégés' par Pétain ? La thèse d'Eric Zemmour récusée par les  
      historiens</title>  
      <link>https://factuel.afp.com/doc.afp.com.9ZB9XD</link>  
      <schema:review encodingFormat="application/ld+json"><![CDATA[  
        {  
          "@context": "https://schema.org",  
          "@type": "ClaimReview",  
          "datePublished": "2022-02-11 11:40",  
          "url": "",  
          "claimReviewed": "Pétain a protégé les juifs français",  
          "itemReviewed":  
            {  
              "author":  
                {  
                  "name": "Eric Zemmour",  
                  "@type": "Person"
```

```

},
"datePublished": "2022-02-07",
"appearance": "https://twitter.com/franceinter/status/1490594446114709514",
"@type": "Claim"
},
"author":
{
  "name": "AFP",
  "url": "https://factcheck.afp.com/",
  "sameAs": "https://twitter.com/AFPFactCheck",
  "logo":
  {
    "url": "https://www.afp.com/sites/all/themes/custom/afpcom/logo.png",
    "@type": "ImageObject"
  },
  "@type": "Organization"
},
"reviewRating":
{
  "ratingValue": "1",
  "bestRating": "5",
  "worstRating": "1",
  "alternateName": "Faux",
  "@type": "Rating"
}
}
]]>
</schema:review>
<content:enclosed><![CDATA[
<h2><span data-contrast="none" xml:lang="FR-FR"><span data-ccp-parastyle="heading 2">Eric Zemmour a affirmé que</span><span data-ccp-parastyle="heading 2">Pétain</span><span data-ccp-parastyle="heading 2">avait</span><span data-ccp-parastyle="heading 2">"protégé</span>
<span data-ccp-parastyle="heading 2">les juifs</span><span data-ccp-parastyle="heading 2">"françai</span>
<span data-ccp-parastyle="heading 2">s"</span><span data-ccp-parastyle="heading 2">"pendant l'Occupation, en procédant à</span>
<span data-ccp-parastyle="heading 2">"un "troc</span><span data-ccp-parastyle="heading 2">"sin</span>
<span data-ccp-parastyle="heading 2">i</span><span data-ccp-parastyle="heading 2">"....</span></span></h2><span class="e-afp-update-note">
<time datetime="2022-02-11T12:38:00+0100">11 février 2022</time>revoici avec bonne orthographe de Raul Hillberg, ajoute précisions sur le nombre de juifs déportés depuis la France</span>
</span>]]></content:enclosed>
<enclosure length="3513775" type="image/jpeg" url="https://hosting.afp.com/factcheck-rss/FR/medias/0bb409e64dd535010b71bc704dd08b93ccb129c3-highRes.jpg"/>
<media:content fileSize="3513775" height="3327" type="image/jpeg" url="https://hosting.afp.com/factcheck-rss/FR/medias/0bb409e64dd535010b71bc704dd08b93ccb129c3-highRes.jpg" width="4500">
<media:description>Le maréchal Pétain et le chancelier allemand Adolf Hitler, le 24 novembre 1940 à Montoire-sur-le-Loir.</media:description>

```

```

<media:credit>AFP</media:credit>
</media:content>
<author>Julien NGUYEN DANG</author>
<author>Jeremy TORDJMAN</author>
<author>AFP France</author>
<category>Location/France</category>
<category>Media topic/Conflits, guerres et paix</category>
<category>Media topic/Science et technologie</category>
<category>Media topic/Politique</category>
<category>Media topic/Politique/Elections</category>
<category>Media topic/Politique/Elections/Campagne électorale</category>
<category>Media topic/Société</category>
<category>Media topic/Science et technologie/Sciences sociales</category>
<category>Media topic/Science et technologie/Sciences sociales/Histoire</category>
<category>Media topic/Conflits, guerres et paix/Massacre</category>
<category>Media topic/Religion et croyance</category>
<category>Media topic/Société/Discrimination</category>
<category>Media topic/Société/Discrimination/Racisme</category>
<category>Tags/Elections 2022</category>
<pubDate>Fri, 11 Feb 2022 11:40:39 +0100</pubDate>
</item>
</channel>
</rss>

```

[1] The Atom "deleted-entry" Element: <https://datatracker.ietf.org/doc/html/rfc6721>

[2] AFP NewsMLG2 guide defines g2picture. g2image can be also used but it is deprecated. cf [https://www.afp.com/communication/iris/Guide\\_to\\_AFP\\_NewsML-G2.html#heading\\_toc\\_j\\_62](https://www.afp.com/communication/iris/Guide_to_AFP_NewsML-G2.html#heading_toc_j_62)

### 3. schema:review

The element **schema:review** is an enrichment of the RSS format. It contains the expression of **ClaimReview** and **MediaReview** defined by [Schema.org](#) community. The content is expressed in a **CDATA** to escape XML validation and is in JSON-LD format <https://www.w3.org/TR/json-ld/>.

The ClaimReview and MediaReview are subtypes of the same Review type defining the following common structure. All properties defines in this structure is using <https://shema.org> vocabulary by default. Some custom property names are defined for defacto and used following namespace definition:

*Defacto namespace definition*

```
---  
"@context": [  
    "https://schema.org",  
    { "defacto": "https://defacto-observatoire.fr/defacto-rss" }  
]  
---
```

#### Review Properties

<b>url</b>	<a href="#">URL</a>	Link to the page hosting the article.
<b>datePublished</b>	<a href="#">DateTime, Date</a>	Date of publication of the fact-checking article.
<b>author</b>	<a href="#">Organization, Person</a>	Author of the fact-checking or fact-checking article. It can be a person or an organization.
<b>itemReviewed</b>	<a href="#">Claim,</a> <a href="#">MediaReviewItem</a>	Definition of the claim verified by the fact-checker, or MediaReviewItem Full definitions at <a href="https://schema.org/Claim">https://schema.org/Claim</a> and <a href="https://schema.org/MediaReviewItem">https://schema.org/MediaReviewItem</a> .
<b>reviewRating</b>	<a href="#">Rating</a>	Rating of the statement or media item.

#### 3.1. ReviewRating

The full definition of the **reviewRating** is defined at <https://schema.org/Rating> Numerical rating values are defined by fact-checking systems. Values are set from worst to best.

Example scoring:

- 1 = "False"
- 2 = "Mostly false"
- 3 = "Half true"
- 4 = "Mostly true"
- 5 = "True"

ReviewRating Properties		
<b>@type</b>	Fixed Value	Rating
<b>alternateName</b>	Text	Assessing the truthfulness of the statement by a word or short text. There is no controlled vocabulary for this value.
<b>bestRating</b>	Number	Best numerical rating according to the scale defined for the fact-checking system.
<b>worstRating</b>	Number	Worst possible value according to the scale defined for the fact-checking system. The value must be less than <b>bestRating</b> .
<b>ratingValue</b>	Number	Rating assigned to the declaration between the <b>bestRating</b> and <b>worstRating</b> if these are provided.
<b>additionalType</b>	URL	Enumeration of controlled values related to the alternateName property.

### Example Rating

```
{
  "reviewRating": {
    "ratingValue": "1",
    "bestRating": "5",
    "worstRating": "1",
    "alternateName": "False",
    "@type": "Rating"
  }
}
```

Table 1. Example values for the alternateName (indexed by [Google FactCheck Explorer](#))

<b>False</b>	<a href="https://toolbox.google.com/factcheck/explorer/search/false;hl=en">https://toolbox.google.com/factcheck/explorer/search/false;hl=en</a>
<b>Misleading</b>	<a href="https://toolbox.google.com/factcheck/explorer/search/misleading;hl=en">https://toolbox.google.com/factcheck/explorer/search/misleading;hl=en</a>
<b>Unsupported</b>	<a href="https://toolbox.google.com/factcheck/explorer/search/unsupported;hl=en">https://toolbox.google.com/factcheck/explorer/search/unsupported;hl=en</a>
<b>Missing context</b>	<a href="https://toolbox.google.com/factcheck/explorer/search/missing%20context;hl=en">https://toolbox.google.com/factcheck/explorer/search/missing%20context;hl=en</a>
<b>Partly false</b>	<a href="https://toolbox.google.com/factcheck/explorer/search/partly%20false;hl=en">https://toolbox.google.com/factcheck/explorer/search/partly%20false;hl=en</a>

## 3.2. ClaimReview

The expression of a ClaimReview defines additional properties compared to the Review type.

The full definition is available at <https://schema.org/ClaimReview>

ClaimReview Properties		
@context	Fixed Value	<a href="https://schema.org">https://schema.org</a>
@type	Fixed Value	<a href="#">ClaimReview</a>
claimReviewed	Text	Short summary of the claim to be verified.
associatedMediaReview	MediaReview	MediaReview associated with the ClaimReview. This property will list media related to the statement that have been verified. (cf <a href="#">MediaReview</a> )

*ClaimReview structure example*

```
{
  "@context": "https://schema.org",
  "@type": "ClaimReview",
  "claimReviewed": "Claim description",
  "datePublished": "2022-02-11 11:40",
  "url": "http://article_link",
  "itemReviewed": {
    "@type": "Claim"
    // Claim to check
  },
  "author": {
    "name": "name of the organization that authored the fact check",
    "@type": "Organization"
  },
  "reviewRating": {
    "ratingValue": "1",
    "bestRating": "5",
    "worstRating": "1",
    "alternateName": "False",
    "@type": "Rating"
  }
}
```

### 3.2.1. ItemReviewed for ClaimReview

This property contains the description of the claim that is checked by the fact-checker in ClaimReview.

The full definition of the itemReviewed property is defined at <https://schema.org/Claim>.

ItemReviewed Properties		
@type	Fixed Value	Type of the item reviewed. The type is always <i>Claim</i>
author	<a href="#">Organization, Person</a>	Author of the claim being checked. It can be a person or an organization.
url	<a href="#">URL</a>	Link in support of the verified declaration.

## ItemReviewed Properties

<b>datePublished</b>	<a href="#">DateTime</a> , <a href="#">Date</a>	Date of the statement
<b>firstAppearance</b>	<a href="#">URL</a> , <a href="#">CreativeWork</a>	Link or description in which the statement first appears.
<b>appearance</b>	<a href="#">URL</a> , <a href="#">CreativeWork</a> , Array[ <a href="#">URL</a> or <a href="#">CreativeWork</a> ]	Links or descriptions of objects in which the statement appears. If there are several, the content is in the form of an array of CreativeWork links or descriptions

## 3.3. Appearances

The property ***appearance***, defined on <https://schema.org/appearance>, indicates the occurrences where the declaration being checked is found.

The simplest representation is an URL accessible on the internet to the resource where the declaration is located (website, social network, etc.).

The most complex representation can be a description of material content (book, film, podcast, photography, etc.) of the CreativeWork type.

If the declaration appears in more than one place, the value of the ***appearance*** is an array.

The ***appearance*** is found exclusively in an ***itemReview*** of type ***Claim***.

*Example with a single referenced URL*

```
{
  "appearance": "https://www.facebook.com/100063486369524/videos/2008381422654312"
}
```

*Example with several URLs*

```
{
  "appearance": [
    "https://www.facebook.com/100063486369524/videos/2008381422654312",
    "https://twitter.com/baa3465dd891455/status/1486057108307066880"
  ]
}
```



In the case of several links, the author defined in the itemReview is not necessarily the author of all referenced links. To associate author or creator to each links, you must use CreativeWork type for each ***appearance***.

### 3.3.1. Appearance with CreativeWork

In order to give a finer description than a declaration, the property ***appearance*** can contain the occurrences of several media described by the type [CreativeWork](#).

Using the CreativeWork type is sufficient to define all types. The list of properties below covers the

requirements for embedding media (text, photo, video and audio).



The CreativeWork type is a generic type. It is advisable to use [subtypes](#) like MediaObject, Article, Blog, WebPage, SocialMediaPost, etc.

<b>appearance Properties</b>		
<b>@type</b>	<a href="#">CreativeWork</a>	Sets the creativeWork type of the itemReview. The general value is CreativeWork which is suitable for all content. It is advisable to specialize the contents by using the subtypes of CreativeWork and to use the properties specific to the subtype used. <a href="https://schema.org/CreativeWork#subtypes">https://schema.org/CreativeWork#subtypes</a>
<b>url</b>	<a href="#">URL</a>	Link to the content of the claim, usually the web page where the claim is contained.
<b>abstract</b>	<a href="#">Text</a>	Brief description of the CreativeWork.
<b>archivedAt</b>	<a href="#">URL</a>	Link to an archive provider where the link defined in <b>url</b> is archived.
<b>countryOfOrigin</b>	<a href="#">Text</a>	Country code indicating from where the CreativeWork was published and/or created.
<b>creator</b>	<a href="#">Organization, Person</a>	Creator of the content of the CreativeWork. Not to be confused with the author of the statement.
<b>dateModified</b>	<a href="#">DateTime</a>	Date and time when the CreativeWork was modified.
<b>datePublished</b>	<a href="#">DateTime</a>	Date and time when the CreativeWork was published.
<b>headline</b>	<a href="#">Text</a>	Title of the CreativeWork.
<b>interactionStatistic</b>	<a href="#">InteractionCounter</a>	Metrics representing how Internet users interact with the CreativeWork online.
<b>isPartOf</b>	<a href="#">Property</a>	The domain that hosts the link defined in <b>url</b> , known as the URL's domain name. The domain name is stored in the property <b>name</b> of <b>isPartOf</b> , while <b>@type</b> of <b>isPartOf</b> is always 'WebSite'.
<b>keywords</b>	<a href="#">Text</a>	Keywords associated with the CreativeWork.
<b>name</b>	<a href="#">Text</a>	Name of the CreativeWork.
<b>text</b>	<a href="#">Text</a>	Full text content of the CreativeWork. Not to be confused with an abstract or brief description of the CreativeWork.

### 3.3.1.1. MediaObject

If the URL of the claim refers to a media (photo, video or audio), the type used should be MediaObject. In addition to the above properties, MediaObject properties can be added as a complement.

## MediaObject Properties

<b>@type</b>	<a href="#">MediaObject</a>	CreativeWork subtype for media assets. The subtype should be specified for more granularity. <ul style="list-style-type: none"> <li>• <a href="#">AudioObject</a></li> <li>• <a href="#">VideoObject</a></li> <li>• <a href="#">ImageObject</a></li> </ul>
<b>contentUrl</b>	<a href="#">URL</a>	Link to the original media content (audio, image or video file).
<b>contentSize</b>	<a href="#">Text</a>	Media file size.
<b>duration</b>	<a href="#">Duration</a>	Duration of the media (audio or video).
<b>startTime</b>	<a href="#">DateTime, Time</a>	Starting timecode for an audio or video extract.
<b>endTime</b>	<a href="#">DateTime, Time</a>	End timecode for an audio or video clip.
<b>height</b>	<a href="#">Distance, QuantitativeValue</a>	Height display size of the media.
<b>width</b>	<a href="#">Distance, QuantitativeValue</a>	Width display size of the media.
<b>encodingFormat</b>	<a href="#">Text</a>	Mime type of the media.
<b>uploadedDate</b>	<a href="#">Date</a>	Date the media was uploaded.

### AudioObject - Extract to audio track

```
{
  "appearance": {
    "@type": "AudioObject",
    "url": "https://www.franceinter.fr/emissions/le-7-9/le-7-9-du-lundi-07-fevrier-2022",
    "contentUrl": "https://media.radiofrance-podcast.net/podcast09/10241-07.02.2022-
ITEMA_22925015-2022F10761S0038-22.mp3",
    "description": "Pétain and the Jews of France",
    "name": "The 7/9",
    "duration": "9188",
    "encodingFormat": "mp3",
    "startTime": "01:46:52",
    "endTime": "01:48:42",
    "designer": {
      "@type": "Organization",
      "name": "France Inter"
    }
  }
}
```

*VideoObject - Multiple videos of the same content on different links.*

```
{  
  "appearance": [  
    {  
      "@type": "VideoObject",  
      "url": "https://www.facebook.com/100063486369524/videos/2008381422654312",  
      "archivedAt": "https://archive.is/EXAMPLE",  
      "designer": {  
        "@type": "Person",  
        "name": "Lokal West Indian"  
      }  
    },  
    {  
      "@type": "VideoObject",  
      "url": "https://twitter.com/i/status/1507346802802053123",  
      "archivedAt": "https://archive.is/EXAMPLE1",  
      "designer": {  
        "@type": "Person",  
        "name": "Beautiful Milk",  
        "url": "https://twitter.com/baa3465dd891455"  
      }  
    },  
    {  
      "@type": "VideoObject",  
      "url": "https://www.facebook.com/watch/?v=985014695406486",  
      "archivedAt": "https://archive.is/EXAMPLE2",  
      "designer": {  
        "@type": "Person",  
        "name": "Mali. 24 TV"  
      }  
    }  
  ]  
}
```

*ImageObject - Same image shared on different links.*

```
{  
  "appearance": [  
    {  
      "@type": "ImageObject",  
      "url": "https://twitter.com/LoupnoirAlpha/status/1493483404276420612/photo/1",  
      "archivedAt": "https://archive.is/pZn8v",  
      "creator": {  
        "@type": "Person",  
        "name": "Loupnoir Alpha"  
      }  
    }  
  ]  
}
```

```

        "name": "BlackwolfAlpha"
    }
},
{
    "@type": "ImageObject",
    "url": "https://www.facebook.com/151335048220780/posts/2139858189368446/",
    "archivedAt": "https://archive.is/anga1",
    "creator": {
        "@type": "Person",
        "name": "MediaLiars"
    },
    "interactionStatistic": [
        {
            "@type": "InteractionCounter",
            "interactionType": "https://schema.org/ShareAction",
            "userInteractionCount": 20
        },
        {
            "@type": "InteractionCounter",
            "interactionType": "https://schema.org/CommentAction",
            "userInteractionCount": 3
        }
    ]
}
]
}

```

### 3.3.1.2. SocialMediaPost

If the URL of the claim refers to a social media post (Facebook, X (former Twitter), Youtube, Reddit, Instagram, Telegram, Mastodon etc.). The type used is <https://schema.org/SocialMediaPosting>.

<b>SocialMediaPost Properties</b>		
<b>@type</b>	<a href="https://schema.org/SocialMediaPosting">SocialMediaPosting</a>	A post to a social media platform, including blog posts, tweets, Facebook posts, etc.
<b>url</b>	<a href="#">URL</a>	Post URL where to find the post in the social media.
<b>identifier</b>	<a href="#">Text or URL</a>	Post unique identifier.
<b>creator</b>	<a href="#">Organization or Person</a>	Who create the content.
<b>isPartOf</b>	<a href="#">CreativeWork or URL</a>	Item that this post is part of. It can be a social media account or a channel.
<b>datePublished</b>	<a href="#">DateTime or Date</a>	Date of first publication.
<b>contentLocation</b>	<a href="#">Place</a>	Location from where the post's author says it is based.

## SocialMediaPost Properties

<b>keywords</b>	Text	Keywords or hashtag attached to this post. Multiple textual entries in a keyword list are typically delimited by commas(,) or by repeating the property.
-----------------	------	--



Using **creator** or **isPartOf?** Both attributes are valid. However to define the post's social account owner and to stay on Schema.org definition, **isPartOf** would be preferred. If **creator** is used, it will required to used some custom properties as defined below.

This is a Defacto's extension of both [Person](#) and [Organization](#) that's defines social media content's creator.

## creator Properties

<b>@type</b>	<a href="#">defacto:SocialMediaPosting</a>	Person or Organization based extension for defacto. It defines a social media account from where the post comes from. All properties define in these 2 types are inherited.
<b>defacto:dateCreated</b>	<a href="#">DateTime, Date</a>	Date creation of the social media account.
<b>defacto:locationCreated</b>	Text	Country code representing from where the post's author says they are based.
<b>identifier</b>	Text or URL	Post's unique identifier.
<b>name</b>	Text	Account name shows in the social media.
<b>interactionStatistic</b>	<a href="#">InteractionCounter</a>	Metrics representing how users interact with this creator.

InteractionStatistics can be usefull to give metrics about the appearance actions (Like, shared, comments, etc).

## interactionStatistic Properties

<b>@type</b>	<a href="#">InteractionCounter</a>	CreativeWork subtype for media assets. The subtype should be specified for more granularity.
--------------	------------------------------------	---

## interactionStatistic Properties

<b>interactionType</b> <sup>[1]</sup>	<a href="#">InteractAction</a>	The act of interacting with another person or organization. Used action type: <ul style="list-style-type: none"><li>• <a href="#">ShareAction</a></li><li>• <a href="#">LikeAction</a></li><li>• <a href="#">CommentAction</a></li><li>• <a href="#">SubscribeAction</a></li><li>• <a href="#">WatchAction</a></li><li>• defacto:EngagementAction (nb shared on Reddit only)</li></ul>
<b>userInteractionCount</b>	<a href="#">Integer</a>	The number of user interactions
<b>interactionService</b>	<a href="#">Website</a>	The website where the interactions took place

*Interaction example.*

```
{
  "@context": [
    "https://schema.org",
    { "defacto": "https://defacto-observatoire.fr/defacto-rss" }
  ],
  "interactionStatistic": [
    {
      "@type": "InteractionCounter",
      "interactionType": "CommentAction",
      "interactionService": {
        "@type": "WebSite",
        "name": "Facebook"
      },
      "userInteractionCount": "20"
    },
    {
      "@type": "InteractionCounter",
      "interactionType": "ShareAction",
      "interactionService": {
        "@type": "WebSite",
        "name": "Facebook"
      },
      "userInteractionCount": "4"
    },
    {
      "@type": "InteractionCounter",
      "interactionType": "ShareAction",
      "interactionService": {
        "@type": "WebSite",
        "name": "Facebook"
      },
      "userInteractionCount": "4"
    }
  ]
}
```

```

    "name": "Pinterest"
},
"userInteractionCount": "0"
},
{
  "@type": "InteractionCounter",
  "interactionType": "ShareAction",
  "interactionService": {
    "@type": "WebSite",
    "name": "Twitter"
  },
  "userInteractionCount": "0"
},
{
  "@type": "InteractionCounter",
  "interactionType": "defacto:EngagementAction",
  "interactionService": {
    "@type": "WebSite",
    "name": "Reddit"
  },
  "userInteractionCount": "0"
}
]
}

```

### *SocialMediaPost - Creator and interactions.*

```

{
  "@context": [
    "https://schema.org",
    { "defacto": "https://defacto-observatoire.fr/defacto-rss" }
  ],
  "appearance": {
    "url": "https://twitter.com/silvano_trotta/status/1735765521595875777",
    "@type": "SocialMediaPosting",
    "isPartOf": {
      "@type": "WebSite",
      "name": "twitter.com"
    },
    "identifier": "1735765521595875777",
    "datePublished": "2023-12-15T20:55:23",
    "text": "Une très vaste étude japonaise montre l'impensable : \nPlus de 70% des personnes décédées après avoir été vaccinées avec le vaccin COVID-19 de Pfizer au Japon ont perdu la vie dans les 10 premiers jours suivant la vaccination.\n\nhttps://www.cureus.com/articles/199892-analysis-of-the-association-between-bnt162b2-mrna-covid-19-vaccination-and-deaths-within-10-days-after-vaccination-using-the-sex-ratio-in-japan#/! https://twitter.com/silvano_trotta/status/1735765521595875777/photo/1",
    "creator": {
      "@type": "defacto:SocialMediaAccount",
      "defacto:dateCreated": "2009-04-18T12:29:18",
    }
  }
}

```

```

"identifier": "1735765521595875777",
"name": "SILVANO TROTTA OFFICIEL",
"interactionStatistic": [
{
  "@type": "InteractionCounter",
  "interactionType": "FollowAction",
  "interactionService": {
    "@type": "WebSite",
    "name": "Twitter"
  },
  "userInteractionCount": 176726
}
],
},
"interactionStatistic": [
{
  "@type": "InteractionCounter",
  "interactionType": "ShareAction",
  "interactionService": {
    "@type": "WebSite",
    "name": "Twitter"
  },
  "userInteractionCount": "1179"
}
],
"sharedContent": [
{
  "@type": "ImageObject",
  "contentURL": "https://pbs.twimg.com/media/GBatcY9XQAAFLrA.jpg"
}
]
}

```

## 3.4. MediaReview

The MediaReview is an alternative to ClaimReview and specializes in online media content. As defined by schema.org, best practices for linking ClaimReview and MediaReview are not fully finalized. However, it is possible to link the 2 concepts with the ***associatedClaimReview*** for a ClaimReview. The reciprocity to link a MediaReview to a ClaimReview is done with the ***associatedMediaReview*** (cf [ClaimReview](#)).

MediaReview are expressed in JSON-LD. See: <https://www.w3.org/TR/json-ld/> The full definition is available at <https://schema.org/MediaReview>.

### MediaReview Properties

@type	Value Fixed	MediaReview
-------	-------------	-------------

MediaReview Properties		
<b>mediaAuthenticityCategory</b>	<a href="#">MediaManipulation RatingEnumeration</a> , <a href="#">MediaManipulation RatingEnumeration</a>	enumeration. Possible values are: <ul style="list-style-type: none"> <li>• DecontextualizedContent</li> <li>• EditedOrCroppedContent</li> <li>• OriginalMediaContent</li> <li>• SatireOrParodyContent</li> <li>• StagedContent</li> <li>• TransformedContent</li> </ul>
<b>originalMediaContextDescription</b>	<a href="#">Text</a>	Text describing the original media
<b>originalMediaLink</b>	<a href="#">URL</a>	Link to the original media that has been modified
<b>associatedClaimReview</b>	<a href="#">ClaimReview</a>	ClaimReview in which the processed media appears.
<b>itemReviewed</b>	<a href="#">MediaReviewItem</a>	Definition of verified media occurrences

### 3.4.1. MediaReview structure

```
{
  "@context": "https://schema.org",
  "@type": "MediaReview",
  "datePublished": "2022-02-24",
  "url": "Link URL of the article",
  "author": {
    "@type": "Organization",
    "name": "AFP"
  },
  "mediaAuthenticityCategory": "Media authenticity value",
  "originalMediaContextDescription": "Original Media Source Description",
  "originalMediaLink": "Original Media URL",
  "associatedClaimReview": {
    "@type": "ClaimReview",
    "claimReviewed": "description of the associated claim"
  },
  "itemReviewed": {
    "@type": "MediaReviewItem",
    // Definition of reviewed media
  },
  "reviewRating": {
    "ratingValue": "1",
    "bestRating": "5",
  }
}
```

```

    "worstRating": "1",
    "alternateName": "False",
    "@type": "Rating"
  }
}

```

### 3.4.2. ItemReviewed for MediaReview

This property contains the description of media occurrences checked by the fact-checker in MediaReview.

The full definition of the itemReviewed property is defined at <https://schema.org/MediaReviewItem>.

ItemReviewed Properties		
@type	Value Fixed	MediaReviewItem
<b>mediaItemAppearance</b>	<a href="#">MediaObject</a>	CreativeWork subtype for media content. The subtype should be specified for more granularity. <ul style="list-style-type: none"> <li>• <a href="#">AudioObject</a></li> <li>• <a href="#">VideoObject</a></li> <li>• <a href="#">ImageObject</a></li> </ul>

*Example with several videos of the same content whose content has been modified*

```

{
  "@context": "https://schema.org",
  "@type": "MediaReview",
  "datePublished": "2021-09-02",
  "url": "https://factuel.afp.com/doc.afp.com.9YM7U4",
  "author": {
    "@type": "Organization",
    "name": "AFP",
    "url": "https://factcheck.afp.com/",
    "sameAs": "https://twitter.com/AFPFactCheck"
  },
  "mediaAuthenticityCategory": "EditedOrCroppedContent",
  "originalMediaContextDescription": "Centenaire de l'Armistice de 1918 : Arrivée de Vladimir Poutine à l'Arc de Triomphe",
  "originalMediaLink": "https://youtu.be/HPZoY7u20BY",
  "associatedClaimReview": {
    "@type": "ClaimReview",
    "claimReviewed": "Vladimir Poutine a ignoré la poignée de main d'Emmanuel Macron"
  },
  "itemReviewed": {
    "@type": "MediaReviewItem",
    "mediaItemAppearance": [
      {
        "url": "https://factcheck.afp.com/video/9YM7U4"
      }
    ]
  }
}

```

```

"@type": "VideoObject",
"url": "https://www.facebook.com/100063486369524/videos/2008381422654312",
"archivedAt": "https://archive.is/EXAMPLE",
"creator": {
  "@type": "Person",
  "name": "Lokal Antillais"
},
{
  "@type": "VideoObject",
  "url": "https://twitter.com/i/status/1486057108307066880",
  "archivedAt": "https://archive.is/EXAMPLE1",
  "creator": {
    "@type": "Person",
    "name": "Lait bel",
    "url": "https://twitter.com/baa3465dd891455"
  }
},
{
  "@type": "VideoObject",
  "url": "https://www.facebook.com/watch/?v=985014695406486",
  "archivedAt": "https://archive.is/EXAMPLE2",
  "creator": {
    "@type": "Person",
    "name": "Mali. 24 TV"
  }
}
],
},
"reviewRating": {
  "ratingValue": "1",
  "bestRating": "5",
  "worstRating": "1",
  "alternateName": "Faux",
  "@type": "Rating"
}
}

```

[1] Interaction are extracted to populate Defacto database: <https://github.com/medialab/defacto-enrichment-public>

## 4. Use cases

The use of ClaimReview and MediaReview applies to the following use cases:

1. A declaration published on a single link.
2. A statement published in several places.
3. Several statements.
4. A statement with a media review.

All examples are accessible on the GitHub project: <https://github.com/AFP-Medialab/defacto-rss/tree/main/examples>

### 4.1. Case 1: A single statement published on a single link

ClaimReview	appearance
Video shows Russian soldiers landing in Ukraine in 2022	<a href="https://www.facebook.com/kashmirnews1658/videos/728945791437637/">https://www.facebook.com/kashmirnews1658/videos/728945791437637/</a>

*Example 1 - ClaimReview from a URL*

```
{
  "@context": "https://schema.org",
  "@type": "ClaimReview",
  "claimReviewed": "Video shows Russian soldiers landing in Ukraine in 2022",
  "name": "Old video of Russian paratroopers jumping from plane shared with false claim about 'invasion of Ukraine",
  "datePublished": "2022-03-25 10:10",
  "url": "https://factcheck.afp.com/doc.afp.com.326A3U7",
  "itemReviewed": {
    "@type": "Claim",
    "datePublished": "2022-02-24",
    "appearance": "https://www.facebook.com/kashmirnews1658/videos/728945791437637/",
    "author": {
      "@type": "Person",
      "name": "Multiple sources"
    }
  },
  "author": {
    "@type": "Organization",
    "@id": "https://factcheck.afp.com/",
    "name": "AFP",
    "url": "https://factcheck.afp.com/",
    "sameAs": "https://twitter.com/AFPFactCheck"
  },
  "reviewRating": {
```

```

    "@type": "Rating",
    "ratingValue": "1",
    "bestRating": "5",
    "worstRating": "1",
    "alternateName": "False"
}
}

```

*Example 2 - ClaimReview from a VideoObject*

```

{
  "@context": "https://schema.org",
  "@type": "ClaimReview",
  "claimReviewed": "Video shows Russian soldiers landing in Ukraine in 2022",
  "name": "Old video of Russian paratroopers jumping from plane shared with false claim about 'invasion of Ukraine",
  "datePublished": "2022-03-25 10:10",
  "url": "https://factcheck.afp.com/doc.afp.com.326A3U7",
  "itemReviewed": {
    "@type": "Claim",
    "datePublished": "2022-02-24",
    "appearance": {
      "@type": "VideoObject",
      "contentUrl": "https://www.facebook.com/kashmirnews1658/videos/728945791437637/"
    },
    "author": {
      "@type": "Person",
      "name": "Multiple sources"
    }
  },
  "author": {
    "@type": "Organization",
    "@id": "https://factcheck.afp.com/",
    "name": "AFP",
    "url": "https://factcheck.afp.com/",
    "sameAs": "https://twitter.com/AFPFactCheck"
  },
  "reviewRating": {
    "@type": "Rating",
    "ratingValue": "1",
    "bestRating": "5",
    "worstRating": "1",
    "alternateName": "False"
  }
}

```

## 4.2. Case 2: Fact-check on a declaration published in several places

Several links to documents for the same claim: the same declaration was taken up in several places.

ClaimReview	appearance
EU riot police on the Champs-Elysées	<a href="https://twitter.com/LoupnoirAlpha/status/1493483404276420612/photo/1">https://twitter.com/LoupnoirAlpha/status/1493483404276420612/photo/1</a> <a href="https://www.facebook.com/151335048220780/posts/2139858189368446/">https://www.facebook.com/151335048220780/posts/2139858189368446/</a>

*Example 1 - Claim Review simple multi appearances*

```
{
  "@context": "https://schema.org",
  "@type": "ClaimReview",
  "datePublished": "2022-02-17 01:47",
  "url": "https://factuel.afp.com/doc.afp.com.322R23R",
  "claimReviewed": "EU riot police on the Champs-Elysées",
  "author": {
    "name": "AFP",
    "url": "https://factcheck.afp.com/",
    "sameAs": "https://twitter.com/AFPFactCheck",
    "@type": "Organization"
  },
  "itemReviewed": {
    "@type": "Claim",
    "author": {
      "name": "LoupnoirAlpha",
      "@type": "Person"
    },
    "datePublished": "2022-02-15",
    "appearance": [
      "https://twitter.com/LoupnoirAlpha/status/1493483404276420612/photo/1",
      "https://www.facebook.com/151335048220780/posts/2139858189368446/"
    ]
  },
  "reviewRating": {
    "ratingValue": "1",
    "bestRating": "5",
    "worstRating": "1",
    "alternateName": "Misleading",
    "@type": "Rating"
  }
}
```

*Example 2 - ClaimReview with CreativeWork multi appearance and archived pages*

```
{  
  "@context": "https://schema.org",  
  "@type": "ClaimReview",  
  "datePublished": "2022-02-17 01:47",  
  "url": "https://factuel.afp.com/doc.afp.com.322R23R",  
  "claimReviewed": "EU riot police on the Champs-Elysées",  
  "author": {  
    "name": "AFP",  
    "url": "https://factcheck.afp.com/",  
    "sameAs": "https://twitter.com/AFPFactCheck",  
    "@type": "Organization"  
  },  
  "itemReviewed": {  
    "@type": "Claim",  
    "author": {  
      "name": "LoupnoirAlpha",  
      "@type": "Person"  
    },  
    "datePublished": "2022-02-15",  
    "appearance": [  
      {  
        "@type": "ImageObject",  
        "contentUrl": "https://twitter.com/LoupnoirAlpha/status/1493483404276420612/photo/1",  
        "archivedAt": "https://archive.is/pZn8v",  
        "creator": {  
          "@type": "Person",  
          "name": "LoupnoirAlpha"  
        }  
      },  
      {  
        "@type": "ImageObject",  
        "contentUrl": "https://www.facebook.com/151335048220780/posts/2139858189368446/",  
        "archivedAt": "https://archive.is/anga1",  
        "creator": {  
          "@type": "Person",  
          "name": "MediaMenteurs"  
        }  
      }  
    ]  
  },  
  "reviewRating": {  
    "ratingValue": "1",  
    "bestRating": "5",  
    "worstRating": "1",  
    "alternateName": "Misleading",  
    "@type": "Rating"  
  }  
}
```

}

## 4.3. Case 3: Multiple claim reviews for one thematic Fact-Checking wrap-up

A thematic wrap-up may include multiple claims.

Multiple claimReviews for a same thematic FactCheck wrap-up article are possible but be aware that the whole article will not be eligible for the single fact check rich result on Google search. Nevertheless, it may be useful to keep those multiple ClaimReviews into your CMS and to build databases.

Theme	Source
Manipulated videos, recycled photos: renewed disinformation about the Russian-Ukrainian conflict	<a href="https://factuel.afp.com/doc.afp.com.323Q7N9">https://factuel.afp.com/doc.afp.com.323Q7N9</a>

ClaimReview	appearance
a girl on a bus in Ukraine (...) waiting for Russian soldiers	<a href="https://twitter.com/terror_alarm/status/1492596807544750082/photo/1">https://twitter.com/terror_alarm/status/1492596807544750082/photo/1</a>
Ukrainian troops preparing for potential combat	<a href="https://weibo.com/1650926392/LbMiODUqI?refer_flag=1001030103_">https://weibo.com/1650926392/LbMiODUqI?refer_flag=1001030103_</a>
BBC warning of imminent nuclear war in Eastern Europe	<a href="https://www.facebook.com/104681915311714/videos/686860666025235/?_rdc=1&amp;_rdr">https://www.facebook.com/104681915311714/videos/686860666025235/?_rdc=1&amp;_rdr</a>
	<a href="https://www.facebook.com/toscoentertainment/videos/1307046023053075/?_rdc=1&amp;_rdr">https://www.facebook.com/toscoentertainment/videos/1307046023053075/?_rdc=1&amp;_rdr</a>

*Example - Multiple claim reviews*

```
{
  "@context": "https://schema.org",
  "@graph": [
    {
      "@type": "ClaimReview",
      "datePublished": "2022-02-23 16:15",
      "url": "https://factuel.afp.com/doc.afp.com.323Q7N9",
      "name": "Manipulated videos, recycled photos: renewed disinformation about the Russian-Ukrainian conflict",
      "@context": "https://schema.org",
      "claimReviewed": "a girl on a bus in Ukraine (...) waiting for Russian soldiers",
      "itemReviewed": {
```

```
"@type": "Claim",
"author": {
  "name": "Terror Alarm",
  "@type": "Person"
},
"datePublished": "2022-02-12",
"appearance": "https://twitter.com/terror_alarm/status/1492596807544750082/photo/1"
},
"author": {
  "name": "AFP",
  "url": "https://factcheck.afp.com/",
  "sameAs": "https://twitter.com/AFPFactCheck",
  "logo": {
    "url": "https://www.afp.com/sites/all/themes/custom/afpcom/logo.png",
    "@type": "ImageObject"
  },
  "@type": "Organization"
},
"reviewRating": {
  "ratingValue": "1",
  "bestRating": "5",
  "worstRating": "1",
  "alternateName": "False",
  "@type": "Rating"
}
},
{
  "datePublished": "2022-02-23 16:15",
  "@type": "ClaimReview",
  "url": "https://factuel.afp.com/doc.afp.com.323Q7N9",
  "name": "Manipulated videos, recycled photos: renewed disinformation about the Russian-Ukrainian conflict",
  "@context": "https://schema.org",
  "claimReviewed": "Ukrainian troops preparing for potential combat",
  "itemReviewed": {
    "@type": "Claim",
    "author": {
      "name": "Unknown",
      "@type": "Person"
    },
    "datePublished": "2022-01-21",
    "appearance": "https://weibo.com/1650926392/LbMiODUqI?refer_flag=1001030103_"
  },
  "author": {
    "name": "AFP",
    "url": "https://factcheck.afp.com/",
    "sameAs": "https://twitter.com/AFPFactCheck",
    "logo": {
      "url": "https://www.afp.com/sites/all/themes/custom/afpcom/logo.png",
      "@type": "ImageObject"
    }
  }
}
```

```

    },
    "@type": "Organization"
},
"reviewRating": {
    "ratingValue": "1",
    "bestRating": "5",
    "worstRating": "1",
    "alternateName": "False",
    "@type": "Rating"
}
},
{
    "@type": "ClaimReview",
    "datePublished": "2022-02-23 16:15",
    "url": "https://factuel.afp.com/doc.afp.com.323Q7N9",
    "name": "Manipulated videos, recycled photos: renewed disinformation about the Russian-Ukrainian conflict",
    "@context": "https://schema.org",
    "claimReviewed": "BBC warning of imminent nuclear war in Eastern Europe",
    "itemReviewed": {
        "@type": "Claim",
        "author": {
            "name": "Unknown",
            "@type": "Person"
        },
        "datePublished": "2022-01-20",
        "appearance": [
            "https://www.facebook.com/104681915311714/videos/686860666025235/?_rdc=1&_rdr",
            "https://www.facebook.com/toscoentertainment/videos/1307046023053075/?_rdc=1&_rdr"
        ]
    },
    "author": {
        "name": "AFP",
        "url": "https://factcheck.afp.com",
        "sameAs": "https://twitter.com/AFPFactCheck",
        "logo": {
            "url": "https://www.afp.com/sites/all/themes/custom/afpcom/logo.png",
            "@type": "ImageObject"
        },
        "@type": "Organization"
    },
    "reviewRating": {
        "ratingValue": "1",
        "bestRating": "5",
        "worstRating": "1",
        "alternateName": "False",
        "@type": "Rating"
    }
}
]

```

```
}
```

## 4.4. Case 4: A ClaimReview with media review

The example below shows the use of a MediaReview item in a ClaimReview.

The **associatedMediaReview** property replaces the **itemReview** property in the ClaimReview.

ClaimReview	MediaReview: <i>EditedOrCroppedContent</i>
Vladimir Putin ignored Emmanuel Macron's handshake.	<a href="https://www.facebook.com/100063486369524/videos/2008381422654312">https://www.facebook.com/100063486369524/videos/2008381422654312</a>
	<a href="https://twitter.com/baa3465dd891455/status/1486057108307066880">https://twitter.com/baa3465dd891455/status/1486057108307066880</a>
	<a href="https://www.facebook.com/watch/?v=985014695406486">https://www.facebook.com/watch/?v=985014695406486</a>

Example - AssociateMediaReview

```
{
  "@context": "https://schema.org",
  "@type": "ClaimReview",
  "name": "No, Vladimir Putin did not ignore Emmanuel Macron's handshake.",
  "datePublished": "2022-02-08 12:59",
  "url": "https://factuel.afp.com/doc.afp.com.9YM7U4",
  "claimReviewed": "Vladimir Putin ignored Emmanuel Macron's handshake.",
  "associatedMediaReview": {
    "@type": "MediaReview",
    "datePublished": "2021-09-02",
    "url": "https://factuel.afp.com/doc.afp.com.9YM7U4",
    "author": {
      "@type": "Organization",
      "name": "AFP",
      "url": "https://factcheck.afp.com/",
      "sameAs": "https://twitter.com/AFPFactCheck"
    },
    "mediaAuthenticityCategory": "EditedOrCroppedContent",
    "originalMediaContextDescription": "Centenary of the 1918 Armistice: Vladimir Putin arrives at the Arc de Triomphe",
    "originalMediaLink": "https://youtu.be/HPZoY7u20BY",
    "itemReviewed": {
      "@type": "MediaReviewItem",
      "mediaItemAppearance": [
        {
          "@type": "VideoObject",
          "url": "https://www.facebook.com/100063486369524/videos/2008381422654312",
          "archivedAt": "https://perma.cc/B4TG-EFFE",
          "creator": {
            "@type": "Person",
            "name": "AFP"
          }
        }
      ]
    }
  }
}
```

```

        "name": "Lokal Antillais"
    }
},
{
    "@type": "VideoObject",
    "url": "https://twitter.com/baa3465dd891455/status/1486057108307066880",
    "archivedAt": "https://perma.cc/NR8G-FHXU",
    "creator": {
        "@type": "Person",
        "name": "Lait bel",
        "url": "https://twitter.com/baa3465dd891455"
    }
},
{
    "@type": "VideoObject",
    "url": "https://www.facebook.com/watch/?v=985014695406486",
    "creator": {
        "@type": "Person",
        "name": " Mali. 24 TV"
    }
}
],
}
},
"author": {
    "@type": "Organization",
    "@id": "https://factcheck.afp.com/",
    "name": "AFP",
    "url": "https://factcheck.afp.com/",
    "sameAs": "https://twitter.com/AFPFactCheck",
    "logo": {
        "@type": "ImageObject",
        "url": "https://factuel.afp.com/sites/all/themes/custom/afpblog/v2/assets/img/Logo_AFP.svg"
    }
},
"reviewRating": {
    "@type": "Rating",
    "ratingValue": "1",
    "bestRating": "5",
    "worstRating": "1",
    "alternateName": "Truncated and misleading video"
}
}
}
```

## 4.5. Case 5: A ClaimReview from social media with interaction statistics

<b>ClaimReview</b>	<b>appearance: SocialPostMedia</b>
<p>Le GIEC écrit que la mer va monter de 15 mètres.      Elle monte de combien la mer ? Le GIEC le dit :      de deux millimètres par an. [...] Au bout de  <b>Exemple d'analyse sur une chaîne YouTube</b> video. It shows claim social interactions (like, comments, shares, etc) on different platforms. .Example - InteractionStatistics</p> <pre>{   "@context": [     "https://schema.org",     { "defacto": "https://defacto-observatoire.fr/defacto-rss" }   ],   "@graph": [     {       "id": "Medias/20-Minutes/Fact-checks/Rechauffement-climatique-Temperatures-en-baisse-hausse-du-niveau-de-la-mer-On-a-verifie-une-interview-virale",       "title": "Réchauffement climatique : Températures en baisse, hausse du niveau de la mer ... On a vérifié une interview virale",       "url": "https://defacto-observatoire.fr/Medias/20-Minutes/Fact-checks/Rechauffement-climatique-Temperatures-en-baisse-hausse-du-niveau-de-la-mer-On-a-verifie-une-interview-virale/",       "provider": {         "id": "Medias/20-Minutes",         "name": "Fake off - 20 Minutes",         "url": "https://www.20minutes.fr/societe/desintox/"       },       "leadParagraph": "&lt;div&gt;&lt;p&gt;Dans une vidéo intitulée 'GIEC, 30 ans de mensonges', Christian Gerondeau affirme que les températures baissent depuis 2015 et questionne l'impact de la France dans les émissions de gaz à effet de serre. Des affirmations à recontextualiser&lt;/p&gt;&lt;/div&gt;",       "datePublished": "2023-06-15T14:25:57+0000",       "authors": "Mathilde Cousin et Emilie Jehanno (20 Minutes)",       "topics": ["Environnement"],       "keywords": [         "Réchauffement climatique",         "France",         "giec",         "Environnement"       ],       "image": [         {           "url": "https://defacto-observatoire.fr/download/Medias/20-Minutes/Fact-checks/Rechauffement-climatique-Temperatures-en-baisse-hausse-du-niveau-de-la-mer-On-a-verifie-une-interview-virale/WebHome/1200x768_sur-la-loire-entre-saumur-et-angers-des-banc-de-sable-apparaissent-alors-qu'ils-devraient-etre-immerges-les-berges-devaient-etre-sous-5-metre-d-eau-mais-le-manque-de-pluie-et-les-nappes-phrea?rev=1.1"         }       ],       "claimReviews": [         {           "itemReviewed": {             "text": "Le GIEC écrit que la mer va monter de 15 mètres.\nElle monte de combien la mer ? Le GIEC le dit : de deux millimètres par an. [...] Au bout de\nExemple d'analyse sur une chaîne YouTube video. It shows claim social interactions (like, comments, shares, etc) on different platforms. .Example - InteractionStatistics"           }         }       ]     }   ] }</pre>	

```
"author": {
    "name": "Christian Gerondeau",
    "url": "",
    "sameAs": null,
    "logo": null,
    "@type": "Person"
},
"datePublished": "2023-06-09T22:00:00+0000",
"appearance": {
    "url": "https://www.youtube.com/watch?v=HkuCBxIbZ_g",
    "name": "",
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    "keywords": [
        "alternative TVL TVlibertés TV Information Réinformation Ré-information",
        "Élise Blaise",
        "Martial Bild",
        "Pierre Bergerault",
        "Économie Politique Société",
        "Le journal",
        "Journal TV",
        "Pierre Jovanovic",
        "Charles Gave",
        "Olivier Delamarche",
        "Anne Brassié",
        "Covid-19 Ukraine Russie",
        "Média indépendant",
        "Christian Perronne",
        "Gilets Jaunes"
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    "abstract": "Pour vous procurer \"Le climat par les chiffres\" : https://bit.ly/3IQ69v5\\n---[...]",
    "creator": {
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        "defacto:dateCreated": "2018-09-24T09:27:16Z",
        "defacto:locationCreated": "FR",
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        "name": "Chaîne officielle TVL",
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                "interactionType": "SubscribeAction",
                "interactionService": {
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                    "url": "https://www.youtube.com/channel/HkuCBxIbZ_g"
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        "name": "YouTube"
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  "interactionType": "LikeAction",
  "interactionService": {
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    "name": "YouTube"
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  "userInteractionCount": "17428"
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  "@type": "Rating"
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"datePublished": "2023-06-15T14:25:57+0000",
"url": "https://defacto-observatoire.fr/Medias/20-Minutes/Fact-checks/Rechauffement-climatique-Temperatures-en-baisse-hausse-du-niveau-de-la-mer-On-a-verifie-une-interview-virale/",
"claimReviewed": "Le GIEC écrit que la mer va monter de 15 mètres. Elle monte de combien la mer ? Le GIEC le dit : de deux millimètres par an. [...] Au bout de cinquante ans, vous aurez 10 centimètres.",
"@type": "ClaimReview"
},
],
"isBasedOnUrl": "https://www.20minutes.fr/planete/rechauffement-climatique/4040393-20230610-rechauffement-climatique-temperatures-baisse-hausse-niveau-mer-verifie-interview-virale#xtor=RSS-149",
"interactionStatistic": null
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## 5. Conclusion

This document provides an on-going state-of-the art and recommendation to use ClaimReview and MediaReview within Fact-checking RSS feeds in order to facilitate automation of content ingestion within the De Facto project, that can be useful also for EDMO regional and national hubs platforms. Richer in metadata the content will be, easier it will be to build disinformation databases for Social Sciences afterwards. The enrichment in metadata can also take place on each disinformation observatory platform. In this respect, we welcome feedback on this document to continue the discussion on this topic and to improve this document. Feel free to connect with [medialab@afp.com](mailto:medialab@afp.com) for this purpose.

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- Translating the video and visual fact-check terminology to Schema.org structured data : <https://docs.google.com/document/d/1jRbX2IesVQrWvKpehb8ntSMKe0D88bZp3nK8ZAjq6E4/edit>
- Claim review project: <https://www.claimreviewproject.com/mediareview/an-open-process>
- Duke Reporters Lab Tech & Check news: <https://reporterslab.org/tech-and-check/>
- Scripts and documentation for De Facto database enrichment: <https://github.com/medialab/defacto-enrichment-public>