



# MovieLabs Creative Works Ontology – JSON Schema

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## Creative Work JSON Schema Class Definitions

This first section details a set of base classes that align with the Common Ontology and are used throughout the schema.

### Top-level Objects

The ontology has several top-level object classes: Creative Work, Person, Location, Award, and Group. Top-level objects will always have an internal identifier (called 'systemIdentifier' in this schema), this can be used to connect them to other top-level objects.

Not all of these must be implemented as separate objects in an underlying system. In this schema and its initial implementation:

- Creative Work: always a top-level object
- Location: The schema allows these to be top-level objects, but the initial implementation puts them in-line and not as independent objects.
- Person: Always a top-level object; a subset of the person data (name and id) is included in the Contributors field of a Creative Work.
- Groups: Always a top-level object.
- Award: currently not covered with a JSON schema.

### System Identifier

This identifier is the internal identifier of the creative work in the underlying system. Examples include a database key for relational databases, a document name for a document store/no-SQL system, and an IRI for a system based on RDF. The id connects across top-level objects, e.g. films to people or franchises to films. This id is implementation specific, and typically attached to an instantiation of one of the top-level classes in an actual database.

Schema Name	systemIdentifier			
Field Name	Requirement	Control	Type	Description
systemIdentifier	Optional		String	the internal ID for this object.

### Country

An ISO 3166-1 country code. This has been extended to include 'WW' for worldwide and some now defunct countries for historical content as per DOI and EIDR.

Schema Name	country			
Field Name	Requirement	Control	Type	Description
country		enum	String	An ISO 3166-1 country code or accepted extension. Example: US – United States ES - Spain

Enumerated Field	country.country
Enumerated values	Description
ISO 3166-1	An ISO 3166-1 compliant country code, for example 'US' or 'ES', or accepted extension.

## Language

Language codes are specified as per IETC RFC 5646, and allow for encoding of region specific variants.

Refer to EIDR Language Code Best Practices

[http://eidr.org/documents/EIDR\\_Language\\_Code\\_Best\\_Practice\\_v1.6.pdf](http://eidr.org/documents/EIDR_Language_Code_Best_Practice_v1.6.pdf)

Schema Name				
language				
Field Name	Requirement	Control	Type	Description
language		pattern	String	An ISO 639-1 or 639-3 language code, or language code with country of use Example: en – English es – Spanish es-MX – Spanish as spoken in Mexico zh-yue – Chinese Cantonese

Controlled Field	language.language
	<b>Pattern</b>
ISO 639-1/3	^[a-z]{2}[a-z]?(-([A-Z][A-Z])? [a-z]{2}[a-z]?)?\$

## Source

All elements must have an attributable source which describes where the data for this element was obtained from, or the party responsible for creating it.

Schema Name				
source				
Field Name	Requirement	Control	Type	Description
source	Required		String	The source to which the data in this element is attributed to

Note: This field is not expressly enumerated but adhering to a list of recommended names for common sources of data is considered best practice. The following table provides a list of recommended terms for some common sources of creative works metadata.

source.type (this is not a controlled field but should comply where there is a corresponding type)	
Suggested values	Description

imdb	Internet Movie Database ( <a href="http://www.imdb.com">www.imdb.com</a> )
eidr	Entertainment Identifier Registry ( <a href="http://www.eidr.org">www.eidr.org</a> )
bfi	British Film Institute ( <a href="http://www.bfi.org.uk">www.bfi.org.uk</a> )
afi	American Film Institute ( <a href="http://www.afi.com">www.afi.com</a> )
dfi	Danish Film Institute ( <a href="http://www.dfi.dk/en">www.dfi.dk/en</a> )
sfi	Swedish Film Institute <a href="http://www.filminstitutet.se/en/">www.filminstitutet.se/en/</a> )
bomojo	Box Office Mojo ( <a href="http://boxofficemojo.com">boxofficemojo.com</a> )
wikidata	Wikidata ( <a href="http://www.wikidata.org">www.wikidata.org</a> )
wikipedia	Wikipedia ( <a href="http://www.wikipedia.org">www.wikipedia.org</a> )
lumiere	European Audiovisual Observatory LUMIERE database ( <a href="http://www.lumiere.avco.int">www.lumiere.avco.int</a> )
commonsensemedia	Common Sense Media ( <a href="http://www.commonsensemedia.org">www.commonsensemedia.org</a> )
kinopoisk	Kinopoisk ( <a href="http://www.kinopoisk.ru">www.kinopoisk.ru</a> )
rottentom	Rotten Tomatoes ( <a href="http://www.rottentomatoes.com">www.rottentomatoes.com</a> )
flixbster	Flixster ( <a href="http://www.flixster.com">www.flixster.com</a> )
itunes	iTunes ( <a href="http://www.apple.com/itunes">www.apple.com/itunes</a> )
tmdb	The Movie Database ( <a href="http://www.themoviedatabase.com">www.themoviedatabase.com</a> )
tcm	Turner Classic Movies ( <a href="http://www.tcm.com">www.tcm.com</a> )
bluray	Blu-Ray ( <a href="http://www.blu-ray.com">www.blu-ray.com</a> )
ondvd	On DVD ( <a href="http://www.ondvdreleases.com">www.ondvdreleases.com</a> )
webedia	Webedia uses a single id to identify content across a range of language specific sites
allocine	French site for the webedia group of sites ( <a href="http://www.allocine.fr">www.allocine.fr</a> )
adoro	Brazilian site for the webedia group of sites ( <a href="http://www.adorocinema.com">www.adorocinema.com</a> )
beyazperde	Turkish site for the webedia group of sites ( <a href="http://www.beyazperde.com">www.beyazperde.com</a> )
filmstarts	German site for the webedia group of sites ( <a href="http://www.filmstarts.de">www.filmstarts.de</a> )
sensacine	Spanish site for the webedia group of sites ( <a href="http://www.sensacine.com">www.sensacine.com</a> )
moviepilot	German site for the webedia group of sites ( <a href="http://www.moviepilot.de">www.moviepilot.de</a> )
disney	Internal Studio
fox	Internal Studio
paramount	Internal Studio
sony	Internal Studio
universal	Internal Studio

warner	Internal Studio
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Note: This is not an exhaustive list but includes examples for some of the more common seen sources and may be updated periodically.

## URL

A resolvable URL pointing to resource on which this source retains data pertaining to the record, or from which the data can be retrieved if it is not stored in the database, e.g. the full text of a review.

Schema Name	url			
Field Name	Requirement	Control	Type	Description
url		Pattern	String	

Controlled Field	url.url
	<b>Pattern</b>
	<code>^(?:http(s)?://)?[w.-]+(?:\.[w.-]+)+[w\-\._~:/?#[\]@%!\\$&amp;'(\)\*\+\,\;="=]+\\$</code>

## URI

A URI describing to a resource.

Schema Name	uri			
Field Name	Requirement	Control	Type	Description
uri		Pattern	String	

Controlled Field	uri.uri
	<b>Pattern</b>
	<code>\w+:(/??/?)[^s]+</code>

## Date

An ISO 8601 compliant date or single year, this is typically associated with a release date, and does not include times or time-zones. It is in the format YYYY-MM-DD or YYYY.



Schema Name	date			
Field Name	Requirement	Control	Type	Description
date		Pattern	String	An ISO 8601 compliant date

Controlled Field	date.date
	Pattern
ISO 8601	(^(18 19 20)\d\d-(0\d 1[0-2])-[0-3]\d\$) ^(18 19 20)\d\d\$)

### Note

A general-purpose field for placing comments or notes which do not have a prescribed field in other parts of the element. Other than being a string this field is never controlled or required.

Schema Name	note			
Field Name	Requirement	Control	Type	Description
note			String	Additional descriptive data about the element, that does not fit into one of the other fields.

### Identifier

A container for multiple types of identifiers that might apply to other creative works, locations, people, etc.

Schema Name	identifier			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	The source from which the identifier was obtained
id	Required		String	The alphanumeric identifier
type	Required		String	The organization or company that assigned and manages the identifier
url	Optional		\$ref: url	A URL that resolves to the primary source (web page, data connection, etc.) for the creative work at the managing organization for the identifier
domain	Optional		String	Identifiers are valid for a particular domain. For standard identifiers e.g. EIDR, ISAN, etc.) a domain is not required – the identifier is assumed to be in the context of that standard. Some non-standard identifiers (e.g. IMDB) are de-facto standards, and so

				do not need a domain. Most corporate or archival identifiers require a domain, often with a sub-domain for different classes of identifiers, e.g. bfi.org.uk and bfi.org.uk/gifford.
relation	Optional	Enum	String	The relation of the id to the creative work

Enum Field	identifier.relation
Vocabulary	Description
isSameAs	This is equivalent to leaving the field 'null' and implies that the identifier is for the Creative Work to which it is attached.
deprecated	This id has been deprecated and should no longer be used. Some systems (EIDR, IMDB) alias deprecated identifiers to newer or more correct ones, but this is not true for all systems. A deprecated identifier means that the identifier applied to the creative work at some point in the past, but no longer does so.

## Latitude and Longitude Coordinates

A container for coordinates of a location containing the longitude and latitude of that location.

Schema Name	latLon			
Field Name	Requirement	Control	Type	Description
longitude	Required		number	The longitude of the location
latitude	Required		number	The latitude of the location

## Location

A container for details about a specific location.

Schema Name	location			
Field Name	Requirement	Control	Type	Description
systemIdentifier	Optional		\$ref: systemIdentifier	If locations are kept as separate internal objects (their own Class), this is the key used to refer to this location. Otherwise it is optional to include it at all.
name	Required		String	The name of the location
country	Optional		\$ref: country	The country the location is in
coords	Optional		\$ref: latLon	The longitude and latitude coordinates of the location

landmark	Required		Boolean	Set true if this is considered a landmark Example: Eiffel Tower, White House
fictional	Required		Boolean	Set true if this is a fictional location Example: Rivendell, Gotham City, Tatooine
identifiers	Optional		[\$ref: identifier]	An array of identifier objects for the location
note	Optional		Note	Further notes regarding the location

## Company

A container for details about a company

Schema Name	company			
Field Name	Requirement	Control	Type	Description
name	Required		String	The name of the Company
identifiers	Optional		[ \$ref: identifier ]	An array of external identifiers for the company

## Date Start & End

A container that allows a specific period of time to be defined using a start and end date. This record is often used to indicate a start date only where there is no defined end.

Schema Name	dateStartEnd			
Field Name	Requirement	Control	Type	Description
startDate	Required		\$ref: date	Starting date for period
endDate	Optional		\$ref: date	Ending date for period

## Time Period

A container for specifying a period of time using units of time and a count. This can be useful for things like box office, where revenue is often shown by week, or for a weekend. So, using a start date that began on a Friday, a time unit of days, and a time count of 3 you could describe a period that covered a weekend.

Schema Name	timePeriod			
Field Name	Requirement	Control	Type	Description
startDate	Required		\$ref: date	Starting date for period
timeUnit	Required	Enum	String	The week within a set of time periods
timeCount	Required		Number	The number of units of time covered in the record.

Example: With a timeUnit of Day, and timeCount of 3 this would indicate that the record refers to 3 days, inclusive of the startDate. The example below indicates Jan 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup>.

```
{
  startDate: 2019-1-1
  timeUnit: 'day',
  timeCount: 3
}
```

Enum Field	timePeriod.timeUnit
Enumerated values	Description
day	The unit of time is measured in days
week	The unit of time is measured in weeks
month	The unit of time is measured in months
year	The unit of time is measured in years

## Creative Work Class - JSON Schema

The following describes each of the containers, or elements of the Creative Work class.

Schema Name	CreativeWork		
Field Name	Requirement	Type	Description
systemIdentifier		String	A unique internal system identifier
identifiers		[\$ref: identifier]	Array of identifier objects
referentTypes		[\$ref: referentType]	Array of referentType objects
adult		[\$ref: adult]	Array of adult objects
titles		[\$ref: title]	Array of title objects
releases		[\$ref: release]	Array of release objects
originalLanguages		[\$ref: originalLanguage]	Array of originalLanguage objects
associatedLocations		[\$ref: associatedLocation]	Array of associatedLocation objects
approximateLengths		[\$ref: approximateLength]	Array of approximateLength objects
associatedCompanies		[\$ref: associatedCompany]	Array of associatedCompany objects
ratings		[\$ref: rating]	Array of rating objects
rankings		[\$ref: ranking]	Array of ranking objects
keywords		[\$ref: keywords]	Array of keyword objects
basedOn		[\$ref: basedOn]	Array of basedOn objects
cost		[\$ref: cost]	Array of cost objects
artwork		[\$ref: artwork]	Array of artwork objects
contributors		[\$ref: contributor]	Array of contributor objects
text		[\$ref: text]	Array of text objects
releaseSummary		\$ref: releaseSummary	releaseSummary object

Note: The systemIdentifier is the unique identifier used to identify the record within a specific database or implementation of this schema. As matter of practicality this will almost always exist, but there is not a necessarily a requirement, or desire, to expose this publicly, nor depending on the specifics of the underlying system does it have to be stored as part of the record itself.

## Identifier

An identifier is a unique alphanumeric string that identifies the creative work within an external system. It may be public (EIDR, IMDB) or private (an internal studio identifier.) The identifier refers to the creative work; it may also apply to versions of the creative work, but that depends on the system that defines the identifier, e.g. an IMDB ID refers to all localized and censored versions of a film, but in EIDR edits and versions get separate IDs from the base creative work.

Schema Name	CreativeWork.identifier			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source of the identifier
identifier	Required		\$ref: identifier	Identifier sub-class (See above)

## Referent Type

Describes the ‘type’ of this creative work. These terms are fuzzy in both industry and archives (e.g. some sources do not distinguish TV and tvMovie).

Schema Name	CreativeWork.referentType			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
type	Required	Enum	String	The type of this work

Enum Field	referentType.type
Enumerated values	Description
movie	A film typically made for theatrical release with a duration of 40 minutes or over
video	The preferable term for a film released directly to the video home market, with a duration 40 minutes or over
tvMovie	A non-episodic movie released first to the television or OTT market with duration of 40 minutes or over
tv	An episodic or single episode work made for television or OTT broadcast
short	A short film (less than 40 minutes, using the AMPAS definition)

Note: This list is currently limited due to this version of the ontology and schema only supporting movies, and not things like episodic television. This will be extended as necessary when additional content types are added.

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## Adult

A simple Boolean to indicate if the work is adult or pornographic in nature.

Schema Name	CreativeWork.adult			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
isAdult	Required		Boolean	Set True when title is adult or pornographic, otherwise set False



## Title

Description of all known titles the work is referred by, including language and country when available

Schema Name	CreativeWork.title			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
title	Required		String	The title
country	Optional		\$ref: country	Country object referencing the country in which the title is used
language	Optional		\$ref: language	Language object referencing the language of the title
type	Optional	Enum	String	A description of the kind of title
note	Optional		\$ref: note	Note object describing any additional attributes of the title

Enum Field	type
Vocabulary	Description
official	An official name, often a translation used for international markets, but assigned by the originating studio or production company
original	The main and typically first title, also usually that used in the country of origin
abbreviated	Shortened version of the original, e.g. Harry Potter 7, for Harry Potter and the Deathly Hallows Part 1
acronym	SATC for Sex & the City
fanBased	A common name fans might use
working	A name used typically during production before a formal name is given
internal	A name or code name or nickname used internally
seriesNumeric	Used when a work does not have an identifying name, but can be distinguished based on its season or episode numbers. For example: Season 2 Episode 3 of The Simpsons. Applies only to the primary title of Seasons and Episodes. Automatically generated.
seriesDate	Used when a work does not have an identifying name, but can be distinguished based on its full release date (and optionally time slot). For example: The Evening News [2012-10-13]. Applies only to the primary title of Seasons and Episodes. Automatically generated.
regional	Used for titles other than the original title in use within a specific region or country.
broadcast	If a broadcast release has a different name
aka	An alternative name that is often used to describe the film, Terminator 3: Rise of the Machines is often referred to as T3
fka	Formerly known as
transliterated	A transliterated version of the name, most commonly used for Romanized versions of titles from their original names.
display	Various abbreviations or variants used for display in user interfaces

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sort	A name useful for sorting or searching, The Hangover is sorted as Hangover, The
piracy	Often uses Leet or other obfuscation to alter a titles name making it harder to find for those not knowledgeable in the language, Avengers might be spelt Av3N93r2
other	Used when no other type fits

## Release

Describes release dates for a creative work. A single object can contain a release date for different channels such as theatrical or home as well as specific distribution channels and format. Each release date can optionally carry consumption metrics both as a total amount or with more granular consumption data about a specific time period or periods.

Schema Name	CreativeWork.release			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
country	Optional		\$ref: country	Country object referring to the country of release
dates	Required		\$ref: date	Date object referring to the date of the release
distributor	Optional		\$ref: company	Details of the distributor in country
channel	Optional	Enum	String	The channel for distribution of this release
distribution	Optional	Enum	String	The type of distribution
format	Optional	Enum	String	The format of the release
consumption	Optional		[\$ref: consumption]	Array of consumption objects giving consumption details (see below)
note	Optional		\$ref: note	Additional notes or comments

Enum Field	channel
Vocabulary	Description
theatrical	Released into theatrical distribution
home	Released into the home market for sale or rental
broadcast	Released via traditional broadcast over air or cable
piracy	Released onto an illegal distribution channel associated with piracy
hospitality	Airlines, hotels

Enum Field	distribution	
Vocabulary	Channel	Description
festival	Theatrical	A one time showing at a film festival
premiere	Theatrical	A film premiere, similar to festival and on occasion earlier than it's limited or wide release
limited	Theatrical	A limited theatrical release
wide	Theatrical	A typical wide theatrical distribution
rerelease	Theatrical	A re-release of work that was out of distribution for some period

tvod	Home	Transactional Video on Demand – Purchase or rent on digital channel
svod	Home	Subscription Video on Demand – Subscription based viewing
pvod	Home	Premium Video on Demand – Typically early window rental
avod	Home	Advertising Video on Demand – Free to watch with advertising
disc	Home	Physical media, VHS, DVD, Blu-Ray
digital	Home	A broad form of digital release where the exact (xVOD is unknown), iTunes, Google Play, etc.
bitTorrent	Piracy	Form of peer to peer piracy

Enum Field	format
Vocabulary	Description
dvd	Digital Video Disc
bluRay	Blu-Ray disc
digital	Digital distribution, no physical media
3d	3D version
iMax	iMax version
70mm	70mm version

## Consumption

The consumption object contains specific consumption data about this a particular release. , Consumption is specific to a particular channel, distribution system and format, but may have multiple measures of consumption such as revenue, admissions, or the number of screens.

The consumption container can contain smaller sub divisions of consumption. For example, the weekly totals for box office can be listed as separate sub-consumption elements nested within the total box office consumption element.

Schema Name	CreativeWork.release.consumption			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Attributed source of data
timePeriod	Optional		\$ref: timePeriod	If not included then this will be inherited from the parent object
units	Required	Enum	String	Description of the units of measurement
currency	Optional	ISO 4217	Enum	An ISO 4217 currency type where Currency is a unit

				Example: usd – US Dollars eur - Euros
amount	Required		Number	The total volume of associated consumption
subConsumption	Optional		[\$ref: consumption]	

Note: source, units, and currency can be omitted from subConsumption records, in which case they are assumed to be the same as in the parent consumption element.

Enum Field	units
Vocabulary	Description
currency	The currency used (currency type must be specified in the currency field)
admissions	The number of tickets sold
theatres	Number of theatres a work is shown in
screens	The number of screens a work is shown on
downloads	The number of observed downloads
views	The number of views for the work, can apply to forms of digital consumption like subscription, rental, or ownership

Enum Field	currency
Vocabulary	Description
ARS	Argentinian peso
AUD	Australian dollars
BRL	Brazilian real
CAD	Canadian dollar
CHF	Swiss Franc
DKK	Danish krone
EUR	Euros
GBP	Pound sterling
JPY	Japanese Yen
NOK	Norwegian krone
NZD	New Zealand dollar
RUB	Rubles



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SEK	Swedish krona
TWD	New Taiwan dollar
USD	US dollar

Note: This list encompasses a sub-selection of the ISO 4217 currency codes, those most likely to appear in the costs or revenue for creative works, and could be extended to include others

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## Original Language

Describes the language or languages used in the original creative work. This does not include versions that may be sub-titled or dubbed for distribution in foreign territories.

Schema Name	CreativeWork.originalLanguage			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Attributed source of data
language	Required		\$ref: language	A language that features in the original version of the film

### Associated Location

Locations that are associated with the creative work in some manner. This might include where the production company was located (often called country of origin in other systems), where the work was physically filmed, or where the narrative was set. This can include fictional locations as well real ones.

Schema Name	CreativeWork.associatedLocation			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
type	Required	Enum	String	The type of location
location	Required		\$ref: location	Location object

Enum Field	type
Vocabulary	Description
filming	Parts or all of the creative work were film in this country
setting	Parts or all of the creative work are set in this location. These can be fictional, for example The Shire in the Hobbit and Lord of the Rings.
production	Production resources were based in this country
funding	Funding for the creative work was received from individuals or governments in the country



## Approximate Length

The approximate running time for the creative work.

Schema Name	CreativeWork.approximateLength			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Attributed source of data.
country	Optional		\$ref: country	The country with which this creative work is associated.
approximateLength	Required	ISO 8601	String	The estimated duration or running length of the creative work formatted to the ISO 8601 duration format.

## Associated Companies

Collection of companies associated with the production or distribution of the work

Schema Name	CreativeWork.associatedCompany			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
type	Required	Enum	String	It's association with the work
company	Required		\$ref: company	The company details

Enum Field	type
Vocabulary	Description
producer	The production company
distributor	A distributor
broadcaster	A broadcaster
copyright	Copyright holders
studio	The primary or originating studio for the work
editor	Editing company
encoder	Company responsible for encoding the work
postProduction	A post production company
licensor	Company offering a license to the work
other	Any other company type that does not fit the above descriptions

## Ratings

The ratings applied to the creative work by a government or regulatory board, generally describing the suitability to an audience, for example the MPPA ratings system. See <https://movielabs.com/md/ratings/> for a detailed list.

Schema Name	CreativeWork.rating			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Attributed source of data
country	Required		\$ref: country	The country in which this rating was applies
rating	Required		String	The rating itself
system	Optional		String	The organization which applied the rating
uri	Optional		\$ref: uri	uri object

## Rankings

A ranking, or score, attributed to a creative work by a third party indicating a view as to its quality. This is typically data from websites or critics that rate or review movies and television.

Schema Name	CreativeWork.ranking			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
country	Optional		\$ref: country	Source object: The country to which this rank primarily applies to, or the country in which the source primarily operates.
rankSource	Required		String	The original source of the rank, not necessarily where it was obtained from
rankDomain	Optional		String	The domain for the rankSource
rankType	Optional		String	The type of rank, typically users of the domain, or an aggregated rank from other sources
rank	Required	Enum	Number	The rank or score attributed to the creative work
votes	Optional		Number	The number of votes cast to create this rank
lowScale	Required		Number	The low end of the scale used in the ranking
highScale	Required		Number	The high end of the scale used in the ranking. If this 1, and the lowScale is 0 the ranking is assumed to be binary (i.e. thumbs up or thumbs down)

Enum Field	rankType
Vocabulary	Description
user	A ranking that is based on a sites users voting in some way.
critic	A ranking from an individual critic or other review source such as a newspaper.
aggregated	An ranking created from aggregating another set of ranks, most frequently done when combining multiple review scores to create an overall impression from multiple reviewers, such as Rotten Tomatoes.

## Keywords

Keywords that can be associated with the work that provide a descriptive quality for the work.

Schema Name	CreativeWork.keyword			
Field Name	Requirement	Control	Type	Description
source			Source	Source object
value	Required		string	The keyword
type	Required	Enum	string	A normalized description of the type of keyword
country	Optional		Country	Country object
language	Optional		Language	Language object
weight	Optional		Number	A unit of measurement describing the importance of this genre or keyword compared to others of similar type.
lowScale	Optional		Number	The low end of the scale used for the weight, e.g. 0 if a percentage scale, when using an ordinal scale this would be the highest weight used, so that priority run from 1 - n
highScale	Optional		Number	The high end of the scale used for the weight, if using an ordinal scale this would be 1 (indicating the most important genre)

Enum Field	type
Vocabulary	Description
genre	A description of the genre of the work
mood	A description of the mood of the work
subject	A description of the subject matter of the work
theme	A description of themes present in the work
other	Other descriptive terms or keywords

## Based On

A description of any other works that this work has been derived from or based on.

Schema Name	CreativeWork.basedOn			
Field Name	Requirement	Control	Type	Description
source			\$ref: source	Source object.
name	Required		String	The name of the work this is based on.
type	Required	Enum	String	A description of the type of work this is based on.
identifiers	Optional		[\$ref: identifier]	An array of external identifiers (identifiers has a field for URLs if appropriate).
note	Optional		\$ref: note	

Enum Field	type
Vocabulary	Description
book	Based on book
comic	Based on comic
graphicNovel	Based on a graphic novel
person	Based on a real person
character	Based on a fictional character
play	Based on play
musical	Based on Musical
opera	Based on an opera
song	Based on a song
game	Based on game
ride	Based on theme park ride
film	Based on a prior film (not necessarily a prequel)
tv	Based on TV series or show

## Cost

Estimated costs associated with the work.

Schema Name	CreativeWork.cost			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
cost	Required		Number	The estimated cost
currency	Required	ISO 4217	String	ISO 4217 code representing the currency in which the cost is expressed
type	Optional	Enum	String	The type of cost described

Enum Field	currency
Vocabulary	Description
ARS	Argentinian peso
AUD	Australian dollars
BRL	Brazilian real
CAD	Canadian dollar
CHF	Swiss Franc
DKK	Danish krone
EUR	Euros
GBP	Pound sterling
JPY	Japanese Yen
NOK	Norwegian krone
NZD	New Zealand dollar
RUB	Rubles
SEK	Swedish krona
TWD	New Taiwan dollar
USD	US dollar

Note: This list encompasses a sub-selection of the ISO 4217 currency codes, those most likely to appear in the costs or revenue for creative works, and could be extended to include others

---

Enum Field	type
Vocabulary	Description
production	Costs attributed to producing the work
marketing	Costs attributed to marketing the work



## Artwork

A container that can contain references to artwork related to the creative work.

Schema Name	CreativeWork.artwork			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
country	Optional		\$ref: country	Country object
url	Required		\$ref: url	A resolvable URL referencing the artwork in the element
width	Optional		Number	Width of the image in pixels
height	Optional		Number	Height of the image in pixels
type	Optional	Enum	String	The type of artwork

Enum Field	type
Vocabulary	Description
poster	Used as promotional poster in billboards, theatres etc.
cover	Used in packing of physical goods like Blu-Ray or DVD
promotional	Used in promotional material
marketing	Used in ancillary marketing material
fan	Created by unofficial external sources, typically fans

## Contributors

The contributor container contains details of individuals associated with creation and starring in the creative work.

The role name and department names are based on the EBU roles, codes and departments:

[https://www.ebu.ch/metadata/cs/web/ebu\\_RoleCodeCS\\_p.xml.htm](https://www.ebu.ch/metadata/cs/web/ebu_RoleCodeCS_p.xml.htm). The enumerated lists below are a subset of the roles available with a focus on those most likely to be nominated for industry awards.

Type (talent or crew) is the coarsest distinction, followed by department, followed by the role(job) played in the production.

There is a companion document ‘role-map-v1.0.xlsx’, that provides mappings across vocabulary sets from several sources and FIAF, EBU, RDF, JSON types.

The following two links reference the EBU codes and FIAF roles

[https://www.ebu.ch/metadata/cs/web/ebu\\_RoleCodeCS\\_p.xml.htm](https://www.ebu.ch/metadata/cs/web/ebu_RoleCodeCS_p.xml.htm)

<https://www.fiafnet.org/pages/E-Resources/Glossary.html#>

Schema Name	CreativeWork.contributor			
Field Name	Requirement	Control	Type	Description
source	Required		Source	Source object
systemIdentifier	Optional		String	The internal identifier referencing the Person class for this individual
role	Optional	Enum	String	The specific role (job) held in the production of the work, see reference document for full details
department	Optional	Enum	String	The department this job role belongs to
type	Optional	Enum	String	Designation as to whether this role is cast or crew, this more simplistic designation of the role is useful for certain search patterns
contribName	Required		\$ref: contribName	Contributor Name object (see below)
portrayal	Optional		[\$ref: portrayal]	An array of Portrayal objects (see below)
billing	Optional		[\$ref: billing]	An array of Billing objects (see below)

Enum Field	CreativeWork.contributor.role
Field Value	Description

productionDesigner	Production Designer, responsible for overall visual appearance of work including sets, props and costumes
artDirector	Art Director, provides oversight of set design and construction
setDesigner	Set Designer, responsible for design & dressing of the sets (furniture, lighting fixtures, etc.)
sfxSupervisor	Special Effects Supervisor, responsible for creating artificial effects on set such as bullet holes, explosions, etc.
dirOfPhotography	Director of Photography
castingDirector	Casting Director
editor	Film Editor
dialogueEditor	Dialogue editor
soundEditor	Sound Editor
soundMixer	Sound Mixer
hair	Hairdressing and Wigs
makeup	Makeup & Prosthetics
lyrics	Lyricist
composer	Composer of film score or music
songComposer	Composer of specific audio tracks or songs within the work
producer	The Producer of the work
execProducer	The Executive Producer of the work
director	The director of the work
assitantDirector	The Assistant Director of the work
writer	Writer or screenwriter of the work
authorOfSource	Author of original source material, such as book
stuntCoordinator	A stunt coordinator
stuntActor	Stunt actor
actor	Actor of any gender designation
voiceActor	A voice actor of any gender designation
self	An individual who portrays themselves in a work
choreographer	The choreographer
dubbingActor	A dubbing or voice over actor of any gender designation
vfxSupervisor	Visual Effects Supervisor
costumeDesigner	Costume designer
archive	Person who oversees or manages archival audio or visual content

Note: The roles in the table above are based broadly on the EBU and FAIF role definitions. This limited set is designed to cover roles that are typically nominated for awards and roles that might be of interest for search and recommendation. See the document mentioned above for details.

Enum Field	CreativeWork.contributor.department
Field Value	Description
accounting	Accounting Department
aerialSupport	Aerial Support and Services
animal	Animal Department
animation	Animation Department
art	Art Department
camera	Camera Department
casting	Casting Department
catering	Catering Department
consultant	Consultants / Experts
distribution	Distribution
editingMontage	Editing / Montage
grip	Grip Department
makeupWig	Hair & Makeup / Wig Department
it	IT Department and Services
lightingElectrical	Lighting / Electrical
marine	Marine
music	Music Department
news	News Department
postProduction	Post-Production
production	Production
promotion	Promotion
script	Script Department
sound	Sound Department
stunts	Stunts Department
talent	Talent
transportation	Transportation Department
vfx	Visual Effect Department

wardrobe	Wardrobe Department
otherCrew	Other Crew Roles
outsideBroadcast	Outside Broadcast Crew
trainersCoaches	Trainers / Coaches
translationDubbing	Translation / Dubbing / Captioning / Signing
medical	Medical Crew
project	Project
martialArts	Martial Arts / Fighting

Enum Field	CreativeWork.contributor.type
Field Value	Description
talent	An individual with an onscreen or acting role in the film, would include voiceovers and narration, etc.
crew	An individual involved with the production of the film.

## Contributor Name

The name of the Person who contributed to this creative work.

Schema Name	CreativeWork.contributor.contribName			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
name	Required		String	The name of the person as used by the referenced source

## Portrayal

A container for a single instance of an actor and a character they play in the work. Characters that play multiple characters can have multiple portrayals, or could have separate contributor records.

Schema Name	CreativeWork.contributor.portrayal			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
actor	Required		String	The name of the person playing this character, per this source

character	Required		String	The character name in the creative work, per this source
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### Billing Order

A container for describing the contributors place in the billing order.

Schema Name	CreativeWork.contributor.billingOrder			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
name	Required		String	The name of the person as referred to by this source
billingOrder	Optional		Number	The numerical sequence in which the cast or crew is listed by this source in the credits
billedRole	Optional		String	The billed role as described in the original source, use to preserve the original role as some sources use screen billing, others their own language.

## Text

A container for holding any sort of text associated with the work. This can include things like a synopsis, reviews or other descriptive text that goes beyond keywords.

Schema Name	CreativeWork.text			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
type	Required	Enum	String	The type of text
country	Optional		\$ref: country	The country from which the text referred to in the element originates from
language	Optional		\$ref: language	Language object, the language this text is written in
url	Optional		\$ref: url	A URL referencing the original text in the element
date	Optional		\$ref: date	The date the text was first published
text	Required		String	The body of the text

Enum Field	type
Vocabulary	Description
synopsis	A synopsis
copyright	A copyright line often used by distributors
tagline	A short, one sentence, line used to describe the work
review	A third-party review

## Creative Work Summary

The Creative Work summary is optional and primarily included as a way of maintaining some key data points about the work, often useful in for creating search indexes in databases, or for quick retrieval and providing summary data to applications.

It is likely that some or all these fields will be selected or computed based on a set of decisions driven by a specific application or need. The source is to indicate which organization was responsible for generating this record and does not relate to the data itself. The data itself may well be generated, or possibly duplicated across more than one original source.

The types are left to the discretion of the system implementer, they could be a single primitive value (string or number), an array of primitives or an appropriate object as per the schema definition, i.e. for actors either a single name could be used, or the contributor object which would include portrayal and billing.

Schema Name	CreativeWork. summary			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source of this release summary.
identifiers				A single, or list of identifiers.
releaseYear				The year of the first known release.
theatricalRelease				The date of the first known theatrical release.
homeRelease				The date of the first known home release.
broadcastRelease				The date of the first known broadcast release.
title				A single primary title, or array of the main titles
rating				The films rating
votes (ranking)				The number of votes received from a voting system or systems
studio				A primary studio behind the work
director				A single director, or an array if more than one
cast				A list of the main actors, or stars in the work
artwork				A reference to artwork



## Person Class - JSON Schema

The Person class describes an individual and includes all details about that person likely to be relevant to media content

A subset of the information is included as part of a contributor record in the CreativeWork class; from which the full information can be recovered by resolving the id in the contributor.

The Person Class in this version 1.0, has been deliberately defined as to be light on detail. Defining people can become quite a complex task, even apparently simple things like a person’s first, last and middle names can get quite complicated; when they change names, when they don’t use them, when they have hyphenated surnames, multiple middle names, etc. We anticipate extending the Person class in the future to deal with some of these more complex issues but feel more discussion and input from industry sources is worthwhile before deciding on a final ontology.

Schema Name	Person			
Field Name	Requirement	Control	Type	Description
systemIdentifier	Required		String	The internal id of this person
identifiers	Optional		[\$ref: identifier]	An array of identifier objects for the person
names	Optional		[\$ref: Person.name]	An array of name objects (see below)
associatedLocations	Optional		[\$ref: associatedLocation]	Locations associated with the person, for example place of birth (See below).
gender	Optional		[\$ref: Person.gender]	Description of person identified gender (see below)
dateOfBirth	Optional		[\$ref: Person.dateOf]	Persons date of birth (see below)
dateOfDeath	Optional		[\$ref: Person.dateOf]	Persons date of death (see below)
seenAsStar	Optional		[\$ref: Person.star]	Indicates if person is considered ‘a star’ (see below)
contributedTo	Optional		[\$ref: CreativeWorks.summary]	List of works the person contributed to; the underlying system may provide filters for this when querying/resolving a person record
summary	Optional		\$ref:Person.summary	A summary of the Person record

## Name

A container used to describe a person’s name as defined by the source. This also includes the type of name, given that people sometimes use multiple names or variations of their names such as pseudonyms.

As noted above, this version of the schema does not split names into given name/family name, first name/last name, etc. We have not specified the order the person’s name; however, we suggest best practice to be first last.

Schema Name	Person.name			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
name	Required		String	The person’s name as found in the source
language	Optional		\$ref: language	Language object, describing language name is written in
type	Optional	Enum	String	The type of name

Enum Field	Person.name.type
Enumerated values	Description
birthName	A person’s given name at birth, a therefore preceding any later name changes
primaryName	The name primarily used by the person for credit in work
pseudonym	A fictitious name
alternateName	An alternate name, Also Known As (AKA)
translatedName	A translated name, often a ‘western name’, used by an Asian actor
nickname	An often humorous or familiar name, often given to someone by friends.
moniker	A personal name, similar to a nickname, a name someone often goes by
alias	A false or assumed name, often one the person is better known as
contractualName	A name used contractually, which may differ from any of the above
displayName	A name used for display purposes
sortName	A name used in sorting, often ‘last, first’

### Associated Locations

A container for holding locations that are relevant to this Person, such as their place of birth or death. This uses the location object so could include a country, city or other form of location.

Schema Name	Person.associatedLocation			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
location	Required		\$ref: location	Location object
type	Optional	Enum	String	The type of name

Enum Field	Person.associatedLocation.type
Enumerated values	Description
placeOfBirth	Where the person was born
placeOfDeath	Where the person died
countryOfCitizenship	Country of citizenship

## Gender

A container for encoding a person’s gender. That is, how a person publicly identifies themselves, not necessarily how others in society might view them.

- Sexual orientation is not included/encoded.
- Gender expression (e.g., gender-specific clothing, hair length, or makeup) is not included/encoded.
- Sexual reassignment status is not included/encoded.

Schema Name	Person.gender			
Field Name	Requirement	Control	Type	Description
source	Required		Source	Attributed source of data
gender	Required	Enum	String	The person’s gender as found in the source.
specificGender	Optional		[String]	Uncontrolled field to accommodate the variations of self-identified gender.
transgender	Optional		Boolean	If true, this indicates a person is transgender.

Enum Field	Person.gender.gender
Enumerated values	Description
male	Identifies as male
female	Identifies as female
other	Anything that doesn’t fit the other three.
neutral	Entities where gender doesn’t apply, e.g. some robots. This will generally not be used for a person but could be used when characters have no gender.

As an example, Richard O’Brien (“The Rocky Horror Picture Show” and “Phineas and Ferb”) is listed in Wikidata as ‘non-binary.’

This would be encoded as:

```
{
  source: "wikidata",
  gender: "other",
  specificGender: ["non-binary"],
  transgender: true,
}
```

If the person is trans-gender and the self-identified gender is male or female, the specificGender field does not have to be populated.

---

### Date of Birth or Death

A container for holding the date of an event related to the person, such as their date of birth or death.

Schema Name	Person.dateOf			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Source object
date	Required		\$ref: date	Date object

---

## Star

This indicates that a particular source views the person as ‘a star’. For example, both IMDB and the AFI have such lists.

Schema Name	StarWithSource			
Field Name	Requirement	Control	Type	Description
source	Required		\$ref: source	Attributed source of data
star	Required		Boolean	True if the source considers this person a star.

## Person Summary

The Person summary is an optional field that contains consolidated information from the Person record. Given that any record may have multiple options to choose from, i.e. multiple names of different types or from different sources, this provides a container for a instantiation to make a decision as to which information is most relevant. This can be useful in creating search indexes within a database, or as a means of quick retrieval of some basic information to an application.

The fields below are suggested, but others can be substituted.

Schema Name	Person.summary			
Field Name	Requirement	Control	Type	Description
systemIdentifier	Required		String	The internal id of this person
identifiers			String or Array	A secondary identifier or list of identifiers for external systems
preferredName			String	The name by which the person is commonly known
dateOfBirth			\$ref: date	Date of birth
dateOfDeath			\$ref: date	Date of Death
gender			\$ref: Person.gender	The persons gender

## Group Class – JSON Schema

Groups provide a simple mechanism for collecting Creative Works into a defined set. Groups can have a predefined type, such as brand or franchise, or can be ad-hoc, which indicates an arbitrary set (e.g. for purposes of marketing or analysis.)

Schema Name	Group			
Field Name	Requirement	Control	Type	Description
systemIdentifier	Optional		String	The internal identifier of the group
type	Required	Enum	String	The type of the group
source	Required		\$ref: source	Source object
name	Required		String	The name of the Group
identifiers	Optional		[\$ref: identifier]	External identifiers for the Group, for including groups from third party sources
description	Optional		String	A short description of the Group (preferably single word)
members	Required		[\$ref: groupElement]	The creative works in the Group (see below)
isOfficial	Optional		Boolean	True if the group has some official status
Note	Optional		\$ref: note	Other information that isn't included in the description

Enum Field	Group.type
Enumerated values	Description
brand	
universe	
franchise	
character	
adHoc	
sales	
display	



## Group Elements

A container for describing the creative works in the group

Schema Name	Group.groupElement			
Field Name	Requirement	Control	Type	Description
source	Required		Source	Attributed source of data
systemIdentifier	Required		String	Internal ID for the creative work
identifiers			[\$ref: identifier]	External identifiers for creative works in group
titleSummary	Optional		[\$ref: CreativeWorks.summary]	For convenience; can be retrieved using the Creative Work's id.
note	Optional		\$ref: note	Any other information, e.g. why this Creative Work is in the Group.