

# Package ‘arthistory’

May 7, 2026

**Title** Art History Textbook Data

**Version** 0.1.0

**Description** Data from Gardner and Janson art history textbooks about both the artists featured in these books as well as their works.

See Helen Gardner (‘‘ Art through the ages; an introduction to its history and significance," 1926, <<https://find.library.duke.edu/catalog/DUKE000104481>>.

Helen Gardner, revised by Horst de la Croix and Richard G. Tansey (‘‘ Gardner’s Art through the ages," 1980, ISBN: 0155037587).

Fred S. Kleiner (‘‘ Gardner’s art through the ages: a global history," 2020, ISBN: 9781337630702).

Horst de la Croix and Richard G. Tansey (‘‘ Gardner’s art through the ages," 1986, ISBN: 0155037633).

Helen Gardner (‘‘ Art through the ages; an introduction to its history and significance," 1936, <<https://find.library.duke.edu/catalog/DUKE001199463>>).

Helen Gardner (‘‘ Art through the ages," 1948, <<https://find.library.duke.edu/catalog/DUKE001199466>>).

Helen Gardner, revised under the editorship of Sumner M. Crosby (‘‘ Art through the ages," 1959, <<https://find.library.duke.edu/catalog/DUKE001199469>>).

Helen Gardner, revised by Horst de la Croix and Richard G. Tansey (‘‘ Gardner’s Art through the ages," 1975, ISBN: 0155037560).

Fred S. Kleiner (‘‘ Gardner’s Art through the ages: a global history," 2013, ISBN: 9780495915423).

Fred S. Kleiner, Christin J. Mamiya, Richard G. Tansey (‘‘ Gardner’s art through the ages," 2001, ISBN: 0155083155).

Fred S. Kleiner (‘‘ Gardner’s Art through the ages: a global history," 2016, ISBN: 9781285837840).

Fred S. Kleiner, Christin J. Mamiya (‘‘ Gardner’s art through the ages," 2005, ISBN: 0534640958).

Helen Gardner, revised by Horst de la Croix and Richard G. Tansey (‘‘ Gardner’s Art through the ages," 1970, ISBN: 0155037528).

Helen Gardner, Richard G. Tansey, Fred S. Kleiner (‘‘ Gardner’s Art through the ages," 1996, ISBN: 0155011413).

Helen Gardner, Horst de la Croix, Richard G. Tansey, Diane Kirkpatrick (‘‘ Gardner’s Art through the ages," 1991, ISBN: 0155037692).

Helen Gardner, Fred S. Kleiner (``Gardner's Art through the ages: a global history," 2009, ISBN: 9780495093077).

Davies, Penelope J.E., Walter B. Denny, Frima Fox Hofrichter, Joseph F. Jacobs, Ann S. Roberts, David L. Simon (``Janson's history of art: the western tradition," 2007, ISBN: 0131934554).

Davies, Penelope J.E., Walter B. Denny, Frima Fox Hofrichter, Joseph F. Jacobs, Ann S. Roberts, David L. Simon (``Janson's history of art: the western tradition," 2011, ISBN: 9780205685172).

H. W. Janson, Anthony F. Janson (``History of Art," 2001, ISBN: 0810934469).

H. W. Janson, revised and expanded by Anthony F. Janson (``History of art," 1986, ISBN: 013389388).

H. W. Janson, Dora Jane Janson (``History of art: a survey of the major visual arts from the dawn of history to present day," 1977, ISBN: 0810910527).

H. W. Janson, Dora Jane Janson (``History of art: a survey of the major visual arts from the dawn of history to present day," 1969, <<https://find.library.duke.edu/catalog/DUKE000005734>>).

H. W. Janson, Dora Jane Janson (``History of art: a survey of the major visual arts from the dawn of history to present day," 1963, <<https://find.library.duke.edu/catalog/DUKE001521852>>).

H. W. Janson, revised and expanded by Anthony F. Janson (``History of art," 1991, ISBN: 0810934019).

H. W. Janson, revised and expanded by Anthony F. Janson (``History of art," 1995, ISBN: 0810934213).

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**Encoding** UTF-8

**RoxygenNote** 7.1.2

**URL** <https://github.com/saralemus7/arthistory>,  
<https://saralemus7.github.io/arthistory/>

**BugReports** <https://github.com/saralemus7/arthistory/issues>

**Depends** R (>= 2.10)

**LazyData** true

**Suggests** testthat (>= 3.0.0), ggplot2, dplyr

**Config/testthat/edition** 3

**NeedsCompilation** no

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**Repository** CRAN

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<i>artists</i>	<i>Artists by edition of Gardner or Janson's art history textbook</i>
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**Description**

Artists by edition of Gardner or Janson's art history textbook

**Usage**

*artists*

**Format**

A data frame with 3,162 observations on 14 variables.

**artist\_name** The name of the artist.

**edition\_number** The number of the edition of either *Gardner's Art Through the Ages* or *Janson's History of Art*.

**year** The year of publication.

**artist\_nationality** The nationaliity of the artist.

**artist\_nationality\_other** The nationality of the artist. Of the total count of artists through all editions of *Gardner's Art Through the Ages* and *Janson's History of Art*, 77.32% account for French, Spanish, British, American and German. Therefore, the categorical strings of this variable are French, Spanish, British, American, German and Other.

**artist\_gender** The gender of the artist.

**artist\_race** The race of the artist.

**artist\_ethnicity** The ethnicity of the artist.

**book** Which book, either Janson or Gardner the particular artist at that particular time was included.

**space\_ratio\_per\_page\_total** The area in centimeters squared of both the text and the figure of a particular artist in a given edition of *Janson's History of Art* or *Gardner's Art Through the Ages* divided by the area in centimeters squared of a single page of the respective edition.

**artist\_unique\_id** A unique identifying number assigned to artists across books and editions denoted in alphabetical order.

**moma\_count\_to\_year** The count of exhibitions held by the Museum of Modern Art (MoMA) of a particular artist at a particular moment of time, as highlighted by year.

**whitney\_count\_to\_year** The count of exhibitions held by The Whitney of a particular artist at a particular moment of time, as highlighted by year.

**artist\_race\_nwi** The non-white indicator for artist race, meaning if an artist's race is denoted as either white or non-white.

**Source**

Stam, H. (2022). Quantifying art historical narratives. doi: [10.7924/r4dn48h0w](https://doi.org/10.7924/r4dn48h0w). Duke Research Data Repository.

**Examples**

```
library(ggplot2)
library(dplyr)

artists %>%
  ggplot(aes(y = book , fill = artist_gender))+
  geom_bar()+
  labs(
    title = "Gender by Book",
    x = "Count of Artists",
    y = "Book",
    fill = "Artist Gender")
```

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worksgardner

*Works of art from Gardner's Art Through the Ages from 1926 until 2020*

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**Description**

Works of art from Gardner's Art Through the Ages from 1926 until 2020

**Usage**

worksgardner

**Format**

A data frame with 2,325 observations on 24 variables.

**artist\_name** The name of a given artist in a given edition of *Gardner's Art Through the Ages* who has created a two-dimensional work after c. 1750.

**edition\_number** The number of the edition of *Gardner's Art Through the Ages*.

**title\_of\_work** The title of the work as listed in *.Gardner's Art Through the Ages*

**publication\_year** The year of publication.

**page\_number\_of\_image** The page number of the figure of the image in the text.

**artist\_unique\_id** A unique number assigned to each artist included in *Gardner's Art Through the Ages* that has created a two-dimensional work after c. 1750.

**artist\_nationality** The nationaliity of the artist.

**artist\_gender** The gender of the artist.

**artist\_race** The race of the artist.

**artist\_ethnicity** The ethnicity of the artist.

**height\_of\_work\_in\_book** The height in centimeters of the figure of the work in the book itself.

**width\_of\_work\_in\_book** The width in centimeters of the figure of the work in the book itself.

**height\_of\_text** The height in centimeters of the text written about a given work by a given artist in a given edition.

**width\_of\_text** The width in centimeters of the text written about a given work by a given artist in a given edition.

**extra\_text\_height** The height in centimeters of the extra text written if the text of the work of an artist is not in a rectangular shape.

**extra\_text\_width** The width in centimeters of the extra text written if the text of the work of an artist is not in a rectangular shape.

**area\_of\_work\_in\_book** The area in centimeters squared of a work in the text.

**area\_of\_text** The area in centimeters squared written about a work in the text.

**extra\_text\_area** The extra area in centimeters squared written about a work if it is not rectangular in the text.

**total\_area\_text** The total area in centimeters squared written about a given work.

**total\_space** The area of the work in centimeters squared plus the area of the text in centimeters squared given to a particular work.

**page\_area** The area in centimeters squared of a page in a given edition of *Gardner's Art Through the Ages*.

**space\_ratio\_per\_page** The total space in centimeters squared divided by the area of a page in a given edition.

**book** The name of the book, *Gardner's Art Through the Ages*, but gardner for short.

## Source

Stam, H. (2022). Quantifying art historical narratives. doi: [10.7924/r4dn48h0w](https://doi.org/10.7924/r4dn48h0w). Duke Research Data Repository.

## Examples

```
library(ggplot2)
library(dplyr)

worksgardner %>%
  filter(artist_name == "Pablo Picasso") %>%
  ggplot(aes(x = publication_year)) +
  geom_bar() +
  labs(
    title = "Count of Works by Pablo Picasso Through Editions of
    Gardner's Art Through the Ages",
    x = "Year",
    y = "Number of Works by Picasso"
  )
```

worksjanson

*Works of art from Janson's History of Art from 1963 until 2011***Description**

Works of art from Janson's History of Art from 1963 until 2011

**Usage**

worksjanson

**Format**

A data frame with 1,634 observations on 25 variables.

**artist\_name** The name of a given artist in a given edition of *Janson's Art Through the Ages* who has created a two-dimensional work after c. 1750.

**artist\_unique\_id** A unique number assigned to each artist included in *Janson's History of Art* that has created a two-dimensional work after c. 1750.

**artist\_nationality** The nationaliity of the artist.

**artist\_gender** The gender of the artist.

**artist\_race** The race of the artist.

**artist\_ethnicity** The ethnicity of the artist.

**title\_of\_work** The title of the work as listed in *Janson's History of Art*

**edition\_number** The number of the edition of *Janson's History of Art*.

**publication\_year** The year of publication.

**part\_in\_text** The number of the part in the text. In this case, every work is from part 4, "The Modern World."

**chapter\_title** The title of the chapter a given work is in.

**start\_date** The year the artist began creating the work.

**end\_date** The year the artist finished the work.

**circa** 1 if the date of the work was labeled with a circa (around) and 0 if the date of the work was not labeled with a circa

**medium** The medium of the work.

**height\_of\_work\_in\_book** The height in centimeters of the work in a given edition of *Janson's History of Art*

**width\_of\_work\_in\_book** The width in centimeters of the work in a given edition of *Janson's History of Art*

**height\_of\_text** The height of text in centimeters of the text written about the work in a given edition of *Janson's History of Art*

**width\_of\_text** The width of text in centimeters of the text written about the work in a given edition of *Janson's History of Art*

- area\_actual\_work** The area in centimeters squared of the actual work itself.
- area\_of\_work\_in\_book** The area in centimeter's squared of a given work in a given edition of *Janson's History of Art*
- area\_of\_text** The area in centimeter's squared of the text of given work in a given edition of *Janson's History of Art*
- work\_to\_figure\_ratio** The size of the actual work divided by the size of the work in the book
- work\_in\_text\_in\_color** If the figure of the work in *Janson's History of Art* was in color, such is denoted by a 1, if the figure of the work is not in color, such is denoted by a 0.
- location\_as\_catalogued\_in\_janson** The location of the work as catalogued in a given edition of *Janson's History of Art*.

### Source

Stam, H. (2022). Quantifying art historical narratives. doi: [10.7924/r4dn48h0w](https://doi.org/10.7924/r4dn48h0w). Duke Research Data Repository.

### Examples

```
library(ggplot2)
library(dplyr)

worksjanson %>%
  filter(artist_name == "Pablo Picasso") %>%
  ggplot(aes(x = publication_year)) +
  geom_bar() +
  labs(
    title = "Count of Works by Pablo Picasso Through Editions of
    Janson's History of Art",
    x = "Year",
    y = "Number of Works by Picasso"
  )
```

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