

Package ‘HIViz’

July 23, 2025

Type Package

Title Interactive Dashboard for 'HIV' Data Visualization

Version 0.1.2

Description An interactive 'Shiny' dashboard for visualizing and exploring key metrics related to HIV/AIDS, including prevalence, incidence, mortality, and treatment coverage. The dashboard is designed to work with a dataset containing specific columns with standardized names. These columns must be present in the input data for the app to function properly: year: Numeric year of the data (e.g. 2010, 2021); sex: Gender classification (e.g. Male, Female); age_group: Age bracket (e.g. 15–24, 25–34); hiv_prevalence: Estimated HIV prevalence percentage; hiv_incidence: Number of new HIV cases per year; aids_deaths: Total AIDS-related deaths; plhiv: Estimated number of people living with HIV; art_coverage: Percentage receiving antiretroviral therapy (ART); testing_coverage: HIV testing services coverage; causes: Description of likely HIV transmission cause (e.g. unprotected sex, drug use). The dataset structure must strictly follow this column naming convention for the dashboard to render correctly.

Depends R(>= 3.5.0)

VignetteBuilder knitr

Suggests testthat (>= 3.0.0), knitr, rmarkdown

License GPL-3

Encoding UTF-8

LazyData true

Imports shiny (>= 1.7.0), shinydashboard, readxl, haven, dplyr, DT, ggplot2, plotly, tidyr, wordcloud, ggrepel, paletteer, shinyWidgets, tools

RoxygenNote 7.3.2

URL <https://github.com/Atefehrashidi/HIViz>

BugReports <https://github.com/Atefehrashidi/HIViz/issues>

Config/testthat/edition 3

NeedsCompilation no

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Repository CRAN

Date/Publication 2025-07-23 19:20:08 UTC

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launchApp	<i>Launch the HIViz Shiny App</i>
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Description

This function launches the Shiny application.

Usage

```
launchApp()
```

Value

Invisible NULL. Called for its side effects (launches the Shiny application in the default browser).

Examples

```
if (interactive()) {
  HIViz::launchApp()
}
```

`sample_data`*Sample HIV Epidemiology Dataset*

Description

A small sample dataset for demonstrating the HIViz dashboard.

Usage`sample_data`**Format**

A data frame with 3 rows and 10 variables:

country e.g., Iran, Spain

year Numeric year

sex Gender (Male, Female)

age_group Age group (e.g., "15–24")

hiv_prevalence % Prevalence

hiv_incidence New cases

aids_deaths AIDS deaths

plhiv People living with HIV

art_coverage % ART coverage

testing_coverage % Testing coverage

causes Cause of transmission

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* **datasets**

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