

# Shiny\_Application\_and\_Reproducible\_Pitch

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## About the App

Use the **Geochron** app to determine the age (in years) of geological samples.

Set the Uranium (U), Thorium (Th) and Helium (He) concentration by inserting the value or moving the sliderbar.

The age result is shown on the display.

## Isotopic Age

Alpha particles are produced during the spontaneous desintegration of the  $^{238}\text{U}$ ,  $^{235}\text{U}$ , and  $^{232}\text{Th}$  series radionuclides.

After capturing 2 electrons, these particles (alpha + 2e) form the Helium gas, which can accumulate over time.

## Use the App Online

The **Geochron** application allows for a quick obtaining of the age from the concentrations of U-Th/He analyses.

The app is available online. There is no need to install it.

## Source codes

Please, refer to the links below for the source App Presentation in RPubS, the App in Shinyapp and GitHub for ui.R and server.R files.

[App Presentation](#)

[App](#)

[GitHub Repository](#)

This app was created as a project during the Data Product course from Coursera.

**Thank you**