

EXOSTARRY NIGHT

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EXOSKY!

Our vision

Our app allows curious adventurers to **interactively navigate** a recreation of an exoplanet's night sky.

We also provide some **extra information** about the planets themselves.

Users can **download a star chart of the sky** they're currently viewing, on which they can **draw completely new constellations!**

(stars obtained from the the
Gaia DR3 Catalog)

(list of planets obtained from the **NASA Exoplanet Archive**)

The difficult part

Of course, the challenge is not easy. There are over **1 billion stars** (and almost 1TB of data) in the dataset we have access to, and it is our job to serve your browser just the ones necessary.

It is also very difficult to **visualise all the data** and have the 3D viewer be **smooth!**

Needless to say, we faced countless technical challenges.

(but the app works!)

It's ^(a)live!



Select a planet to view its stars! 🌟

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4 UMa b

HD 110014 b

WASP-74 b

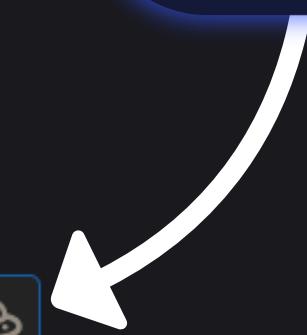
Kepler-44 b

GJ 667 C c

HAT-P-7 b

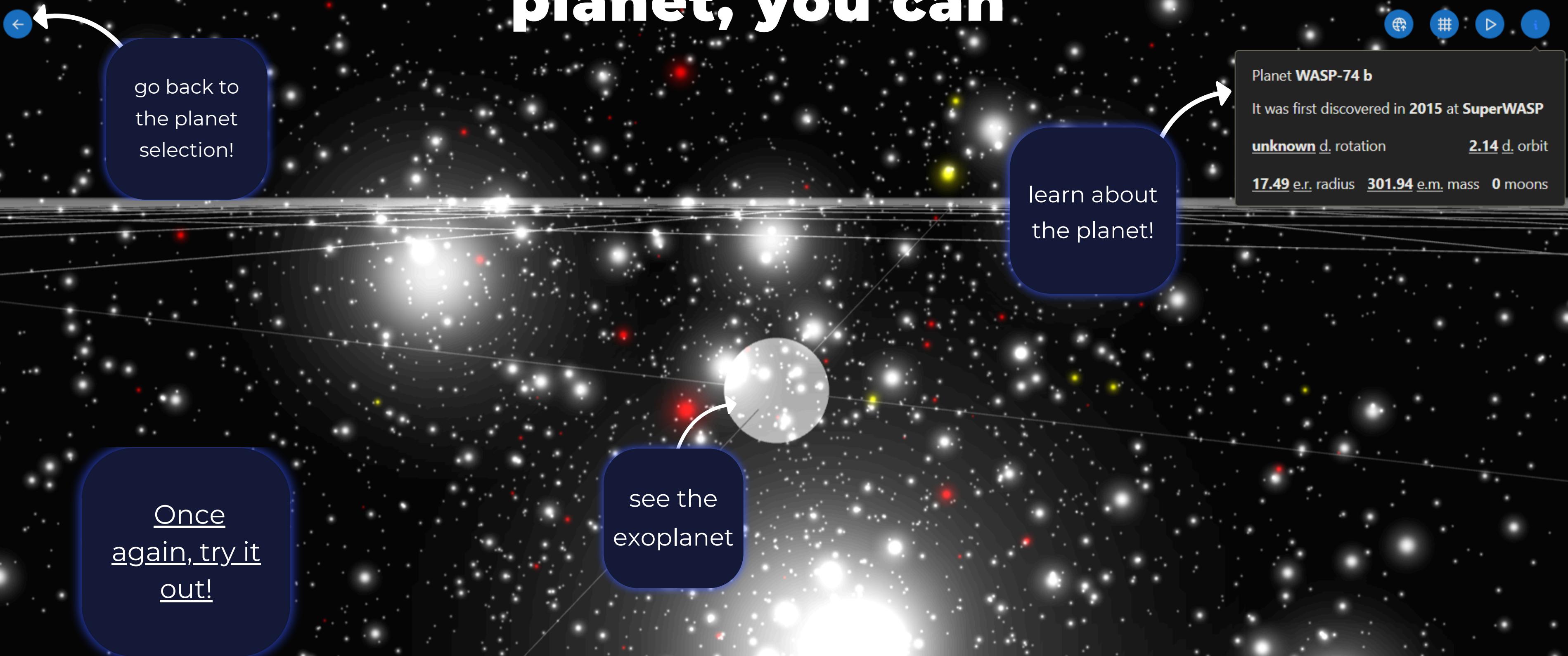
UATC 61 b

Search for an exoplanet



Try it yourself!

Once you choose a planet, you can



Once
again, try it
out!

see the
exoplanet



Planet **WASP-74 b**

It was first discovered in **2015** at **SuperWASP**

unknown d. rotation

2.14 d. orbit

17.49 e.r. radius **301.94** e.m. mass **0** moons

More options!

The view is
customisable:

- Toggle Grid
- Point of view outside
of planet
- Point of view as
planet

Here are
the options

Download
a star
chart!

Hate to repeat myself
but you can try see
the app for yourself!

You can draw
your own
constellations
on the
downloaded
chart!

