



Star 23,446

Dash Python > **Dash Player**

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Dash Player

Dash Player is a Dash component for playing audio and video content. It can use files in your app as well as URLs from YouTube, Facebook, Twitch, SoundCloud, Streamable, Vimeo, Wistia, Mixcloud, and DailyMotion. Dash Player is wrapped around the **react-player component**.

Dash Player exposes the various controls and properties of React Player as Dash component properties, which you can modify via callback functions. This not only allows you to add video playback capabilities to your Dash app, but also enable interactivity with the video player using other Dash components.

Quickstart

```
pip install dash-player
```

Import Dash Player with:

```
import dash_player as dp
```

Example

Note:

- The checklist component interacts with the `playing` and `muted` properties, allowing you to toggle them on and off.
- Entering a number in the `dcc.Input` component and pressing the "seekTo" button allows you to interact with the `seekTo` property seek to a given point in the video, specified in seconds.
- The `currentTime`, `secondsLoaded`, and `duration` properties are displayed in their respective `div`'s via callback.
- The `dcc.Slider` components to the right control the `volume`, `playbackRate`, `intervalCurrentTime`, `intervalSecondsLoaded`, and `intervalDuration` properties of the `dash-player`.

```
from dash import Dash, dcc, html, Input, Output, State, callback
import dash_player

app = Dash()

app.layout = html.Div(
    [
        html.Div(
            [
                html.Div(
                    style={"width": "48%", "padding": "0px"},
                    children=[
                        dash_player.DashPlayer(
                            id="player",
                            url="https://youtu.be/d5pb9TgCGc0",
                            controls=True,
```



```
width="100%",
height="250px",
),
dcc.Checklist(
    id="bool-props-radio",
    options=[
        {"label": val.capitalize(), "value": val}
        for val in [
            "playing",
            "loop",
            "controls",
            "muted",
        ]
    ],
    value=["controls"],
    inline=True,
    style={"margin": "20px 0px"},
),
html.Div(
    [
        dcc.Input(
            id="seekto-number-input",
            type="number",
            placeholder="seekTo value",
            style={"width": "calc(100% - 115px)"},
        ),
        html.Button(
            "seekTo",
            id="seekto-number-btn",
            style={"width": "105px"},
        ),
    ],
    style={"margin": "20px 0px"},
),
html.Div(
    [
```

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☐ Playing ☐ Loop ☒ Controls ☐ Muted

seekTo value

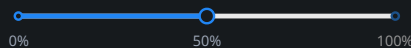
SEEKTO

Current Time: 0

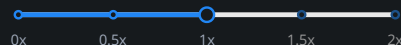
Second Loaded: 0

Duration: 188

Volume:



Playback Rate:



Update Interval for Current Time:



Update Interval for Seconds Loaded:



Update Interval for Duration:



Changes to Dash Player were sponsored by Volkswagen's Center of Excellence for Battery Systems.



DashPlayer Properties

Access this documentation in your Python terminal with:

```
>>> help(dash_player.DashPlayer)
```

Our recommended IDE for writing Dash apps is Dash Enterprise's **Data Science Workspaces**, which has typeahead support for Dash Component Properties. **Find out if your company is using Dash Enterprise.**

id (*string*; optional): The ID used to identify this component in Dash callbacks.

className (*string*; optional): Used to identify the CSS class of the Dash Player component.

url (*string*; optional): The url of the media to be played.

playing (*boolean*; default `False`): Whether or not the media is currently playing. Can be set to True or False to play and pause the media, respectively.

loop (*boolean*; default `False`): Whether or not the media will loop once the player reaches the end. Can be set to True or False to set looping on or off, respectively.

controls (*boolean*; default `False`): Set to True or False to display native player controls Vimeo, Twitch and Wistia player will always display controls.

volume (*number*; optional): A number between 0 and 1 representing the volume of the player. If set to None, Dash Player uses default volume on all players.

muted (*boolean*; default `False`): Set to True or False to mute or unmute player volume, respectively. Only works if volume is set.

playbackRate (*number*; default `1`): Set the playback rate of the player. Only supported by YouTube, Wistia, and file paths.

width (*string*; default `'640px'`): A number or string representing the pixel width of the player.

height (*string*; default `'360px'`): A number or string representing the pixel height of the player.

style (*dict*; optional): Optional additional CSS styles. If width or height are supplied within style, then this will override the component-level width or height.

playsinline (*boolean*; default `False`): Applies the html5 playsinline attribute where supported, which allows videos to be played inline and will not automatically enter fullscreen mode when playback begins (for iOS).

currentTime (*number*; optional): Returns the number of seconds that have been played.

secondsLoaded (*number*; optional): Returns the number of seconds that have been loaded.

duration (*number*; optional): Returns the duration (in seconds) of the currently playing media.

intervalCurrentTime (*number*; default `100`): Interval in milliseconds at which currentTime prop is updated.

intervalSecondsLoaded (*number*; default `500`): Interval in milliseconds at which secondsLoaded prop is updated.

intervalDuration (*number*; default `500`): Interval in milliseconds at which duration prop is updated.

seekTo (*number*; optional): Seek to the given number of seconds, or fraction if amount is between 0 and 1.

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