

1 A learner searches for resources, in this case 'Science'. Results are ordered by the number of modalities available. Icons on the side of each result indicate the modalities available and the state (available/partially available). The learner could further specify the resources they want by editing their *Content Preferences*.

Science



+ edit content preferences

Climate Change Impacts
NOAA

Global June 2018 Temperature Compared to the 1971-2000 Average

Temperature scale: -10 to 10 (Celsius)

Modalities: T, Image, List, CC, Video, Audio

Instabilities in Very Young Neutron Stars
Electron Fraction

Modalities: T, Video, Audio

NASA GSFC Scientific Visualization Studio
Animation of positron-electron annihilation

Modalities: Video, Audio

Introductory subject suitable for students with little or no previous background in electronics. Elementary network theory with op-amps, transients, second order linear systems and active filters, AM and FM modulation, diode and transistor circuits, design of digital circuits. Examples emphasize practical uses of electronics in experimental science. Alternate week laboratory. Keywords: digital circuits, transistor circuits, diode circuits, AM and FM modulation, transients, op-amps, 141001, Electrical, Electronics and Communications

Engineering
Introduction to Electronics
MIT OpenCourseWare



2 Adding content preferences orders results in two categories *Matches* and *Other Results*. Matches are resources that meet a learner's needs. They are identified through a resource's metadata. A learner coming into the resource search with existing preferences would automatically be presented with their matches.

Science ✕

T + edit content preferences

☆ MATCHES

Climate Change Impacts
NOAA

T
📷
📄
CC
🎥
🔊

Instabilities in Very Young Neutron Stars
Electron Fraction

T
🎥
🔊

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Introduction to Electronics
MIT OpenCourseWare T

OTHER RESULTS

NASA GSFC Scientific Visualization Studio
Animation of positron-electron annihilation

🎥
🔊

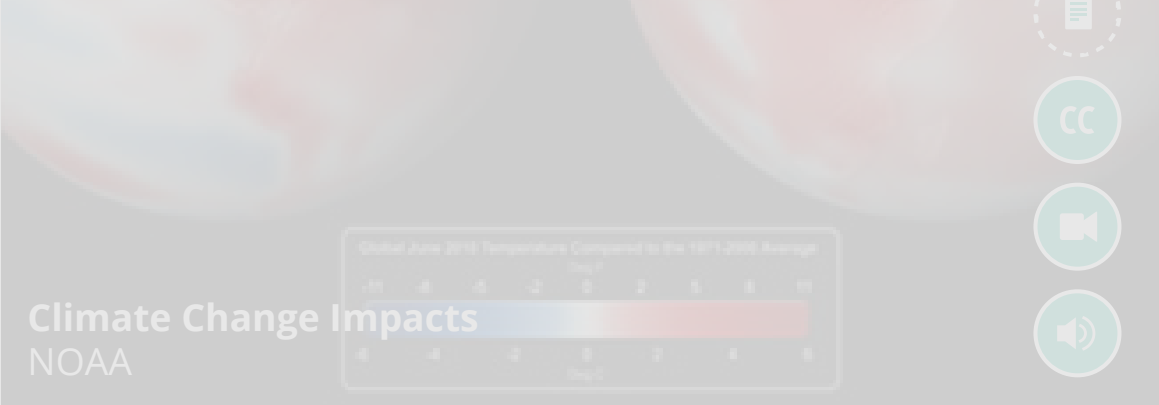
3 Adding a content preference matches a learner with resources containing relevant metadata and makes appropriate content transformations where possible. For example, selecting *Text* finds content with text and also reveals the alt text for images and turns on transcripts for videos (when the resource is accessed). Adding *Audio* and *captions* as content preferences matches resources with the available modalities. An optional text-to-speech widget is also activated if the learner wishes to transform any text content to audio (when the resource is accessed).

Science ✕


T **CC** **🔊** + edit content preferences

- 🖼️ images
- 📄 transcripts
- ⚠️ no visual hazards
- 📄 captions ⊖
- 📺 video
- 🖼️ no images
- 🔊 audio ⊖
- 🗣️ audio description
- 🔊 no audio
- 🌐 low contrast
- 📄 text ⊖
- 📺 no video
- 🌑 high contrast
- 🔍 larger
- 📄 no text

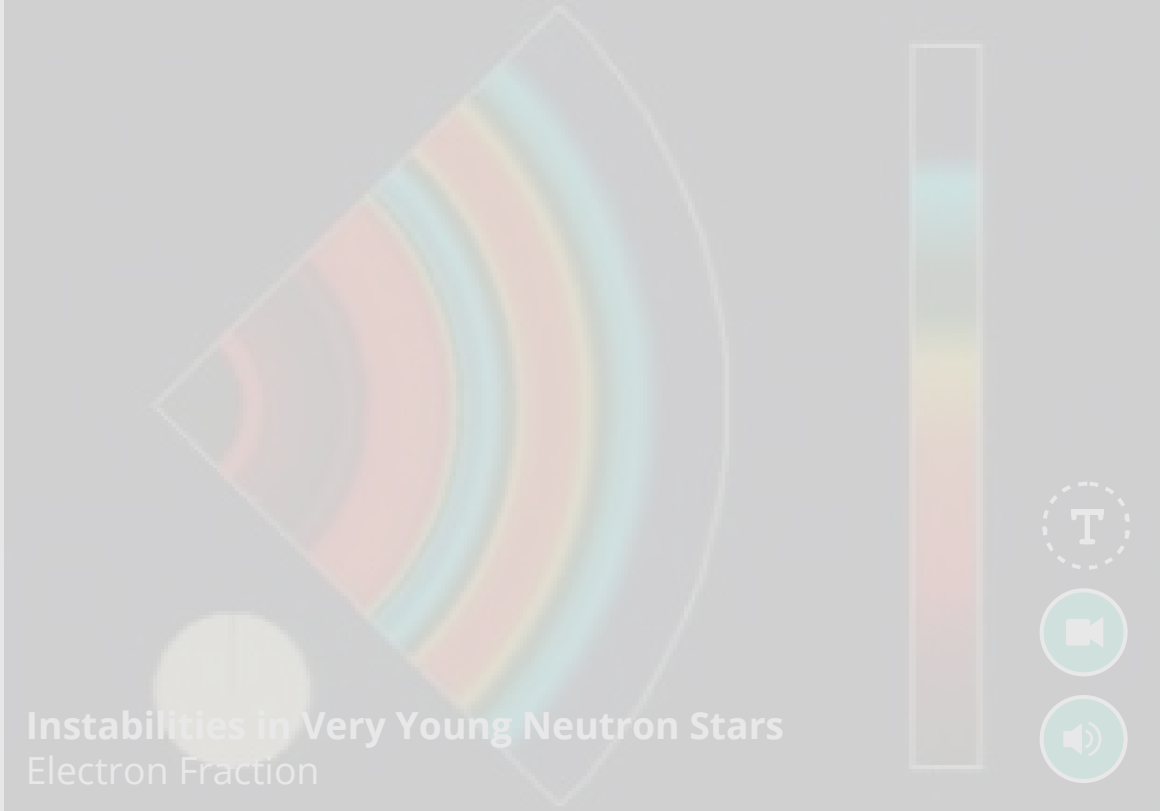
OTHER RESULTS



Climate Change Impacts
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Introduction to Electronics
MIT OpenCourseWare **T**

4 The content preference panel persists when a resource is accessed.



content from the

National Oceanic and Atmospheric Administration

   
Adjust speech settings here

Climate Change Impacts

RESOURCES

Multimedia

- Acid Oceans Video
- Ocean Acidification Podcast
- The Melting North Pole
- Climate Change Wildlife & Wildlands

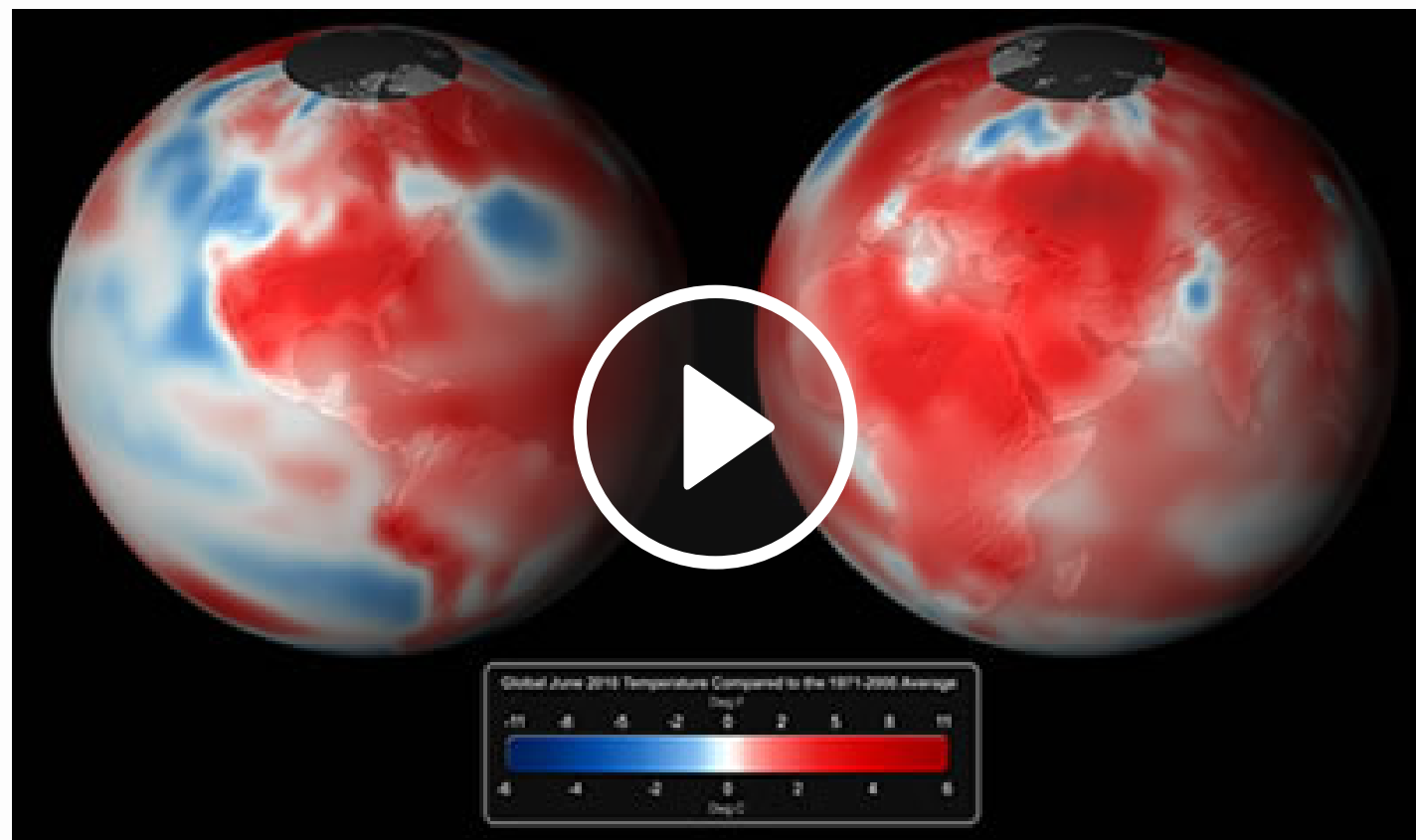
Lessons and Activities

- Climate Change and Corals
- Explore Your Eco-Region
- Our Changing World - Alaska
- Drought Online Unit
- Are You Getting Thirsty?
- Climate Change Education Modules

Real World Data

- Climate Predictions
- Climate At A Glance
- Sea Level Trends
- U.S. Drought Portal
- Sea Ice Interactive Data
- Data For Google Earth
- Extreme Weather & Climate Events

Climate changes are underway in the United States and are projected to grow. Global temperature has increased over the past 50 years, primarily due to human behaviors that release heat-trapping gases, like carbon dioxide.



Widespread climate-related impacts are occurring now and are expected to increase. Changes are happening in the United States, and elsewhere, but the impacts vary from region to region. These changes are affecting sectors of our society that cross regional boundaries. Already impacted are things that we depend upon; water, energy, transportation, agriculture, ecosystems, and human health.

5 On a resource the icons in the panel indicate whether or not the content modality is available. In this case, *Transcripts* are partially available and *Audio Descriptions* are unavailable. A learner could send feedback to the author if the metadata is not right. Automatic feedback is sent to the author when a learner is accessing a resource that does not have a modality they need.

T CC [Speaker] + edit content preferences

images captions [minus] audio [minus] low contrast high contrast

transcripts video audio description text [minus] larger

transcripts partially available
not right? send feedback →

audio descriptions unavailable
not right? send feedback →

hazards no images no audio no video no text

Multimedia

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- Ocean Acidification Podcast
- The Melting North Pole
- Climate Change Wildlife & Wildlands

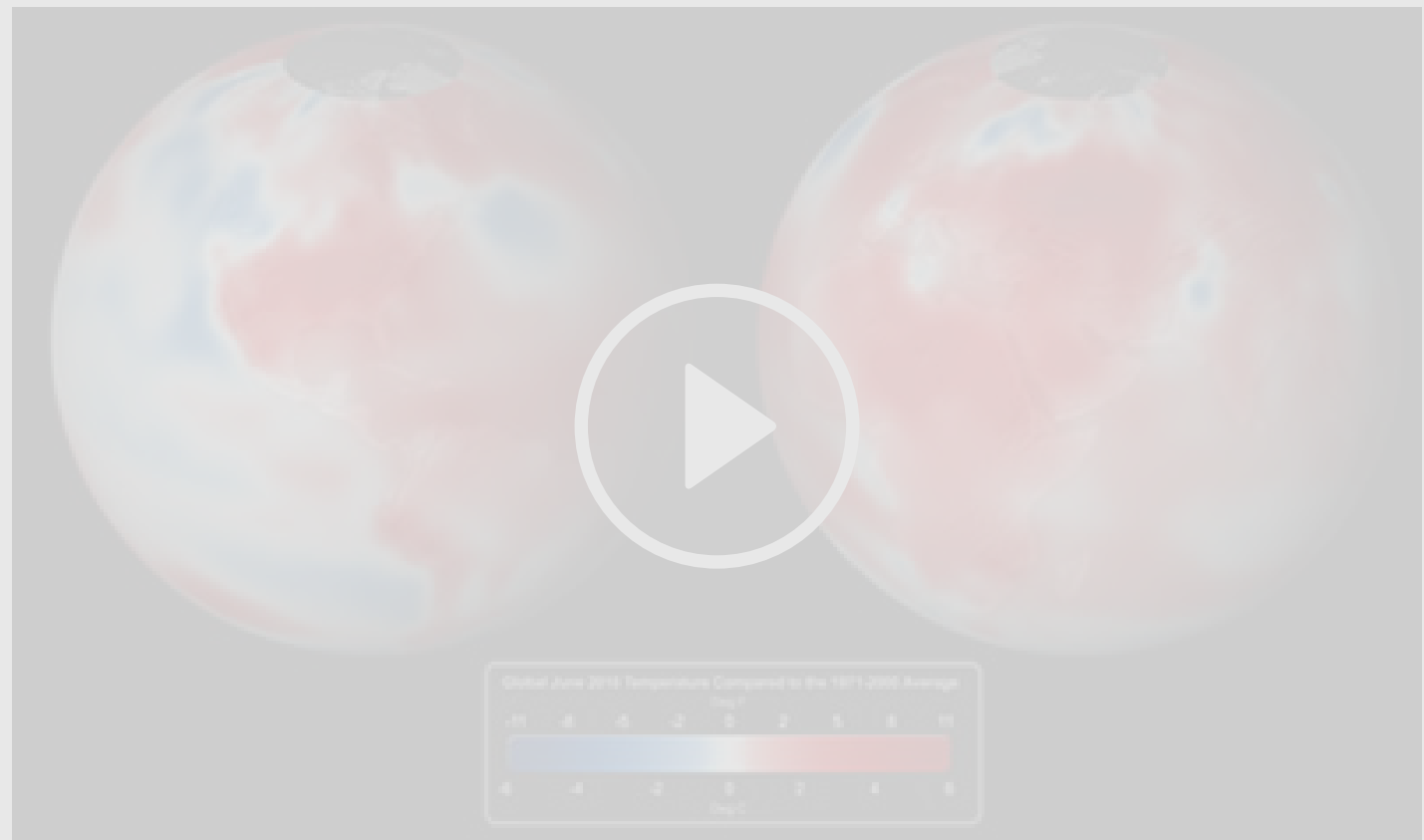
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6 A learner could still access content even if it doesn't fully match their needs. In this case transcripts are partially available.



content from the

National Oceanic and Atmospheric Administration



Climate Change Impacts

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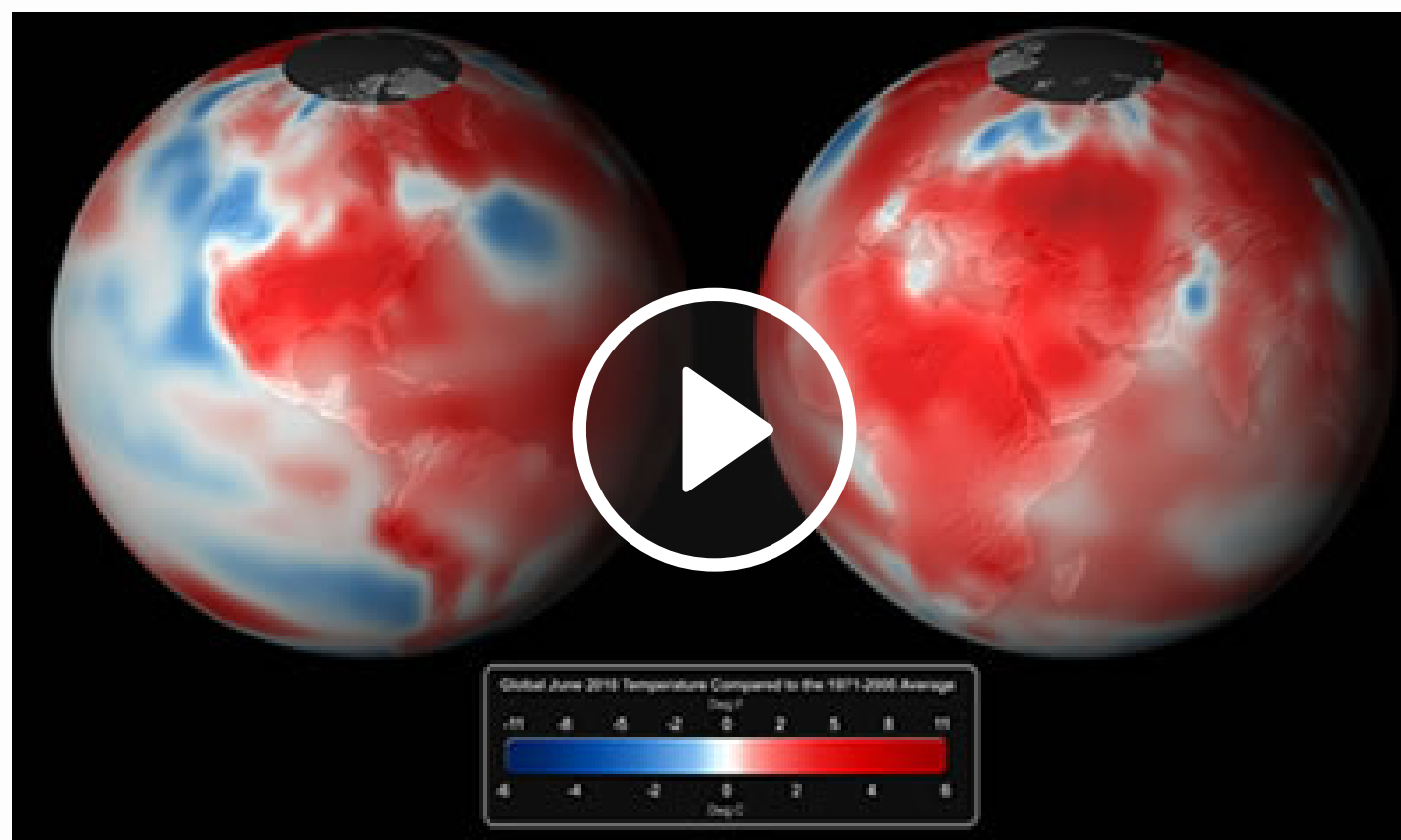
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 words	prioritizes content with text, alt text, caption turns on <i>More Words</i> preset
 visuals	prioritizes content with images, video
 video	prioritizes content with video
 no flashing visuals	removes content with potential visual hazards prioritizes content indicated to have no visual hazards
 audio descriptions	prioritizes content with video and audio descriptions, no video turn on audio descriptions
 audio	prioritizes content with audio, video audio turns on <i>Text-to-speech</i> if text content is also available
 captions	prioritizes content with audio and captions, no audio turns on captions in default language
 transcripts	prioritizes content with audio and captions/transcripts, no audio turns on transcripts in default language
 high contrast	prioritizes content with with high contrast visuals turns on <i>High Contrast</i> preset
 low contrast	prioritizes content with with low contrast visuals turns on <i>Low Contrast</i> preset
 large text	turns on <i>Larger</i> preset