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# Web Expectations



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# The Web Was...

cameronsworld.net

Future Library  
2014 - 2114

Margaret Atwood

2014

Margaret  
Atwood

ENTER

Mute

Information   The Artwork   News & Media

futurelibrary.no



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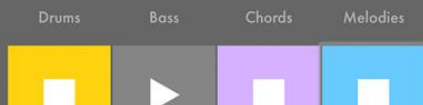
# Web Audio API

API: Application Programming Interface

# Get started making music

In these lessons, you'll learn the basics of music making. No prior experience or equipment is required; you'll do everything right here in your browser.

To get started, check out the boxes below. Each one contains a small piece of music. Click a box to turn it on or off.



# Make beats

This grid shows the "inside" of a musical pattern.

You can click in the grid boxes to make your own version by creating or deleting notes.

Ableton Live drum grid interface. It features a play button, "Clear", and "Export to Live" buttons. A tempo slider is set to 98 bpm. The grid has two rows: "Open Hat" and "Closed Hat". The "Open Hat" row has a yellow square in the 4th slot. The "Closed Hat" row has yellow squares in the 1st, 2nd, 5th, 7th, 8th, 9th, and 10th slots.

# What are these sounds?

Listen to this pattern:

Ableton Live drum grid interface. It features a play button, "Clear", and "Export to Live" buttons. A tempo slider is set to 85 bpm. The grid has three rows: "Open Hat", "Closed Hat", and "Clap". The "Open Hat" row has a yellow square in the 10th slot. The "Closed Hat" row has yellow squares in the 1st through 9th slots. The "Clap" row has yellow squares in the 3rd and 8th slots.

# Bars

So far, all of the drum patterns you've looked at loop back to the beginning after four beats. This grouping of four beats is called a *bar* or *measure*.

Here's a drum pattern that's two bars long:

Ableton Live drum grid interface. It features a play button, "Clear", and "Export to Live" buttons. A tempo slider is set to 90 bpm. The grid shows a two-bar drum pattern with yellow squares in the 1st, 2nd, 5th, 7th, 8th, 9th, and 10th slots of the first bar, and a yellow square in the 4th slot of the second bar. A watermark "[learningmusic.ableton.com/](http://learningmusic.ableton.com/)" is visible across the grid.



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**Demo:**

<https://codepen.io/Rumyra/fulI/ENWLzK/>





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# The Web Is: Two Dimensional





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# webGL & webVR

## Three Dimensional!



[pottermore.com](http://pottermore.com)



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# The Web Is: Environment Agnostic



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**Demo:**

<https://codepen.io/Rumyra/ful>  
[I/JpeJMZ/](#)



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# The Web Is: A Browser



@dan\_jenkins



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## Web MIDI API:

<https://codepen.io/Rumyra/fulI/NxdbzL/>





@LawrieCape



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# The Web Is: Connectivity



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# Service Worker



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**Demo:**

<https://blog.rumyra.com>



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# The Web Is: Not Native



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# The Web Is: Resilient



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# Thank You!

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