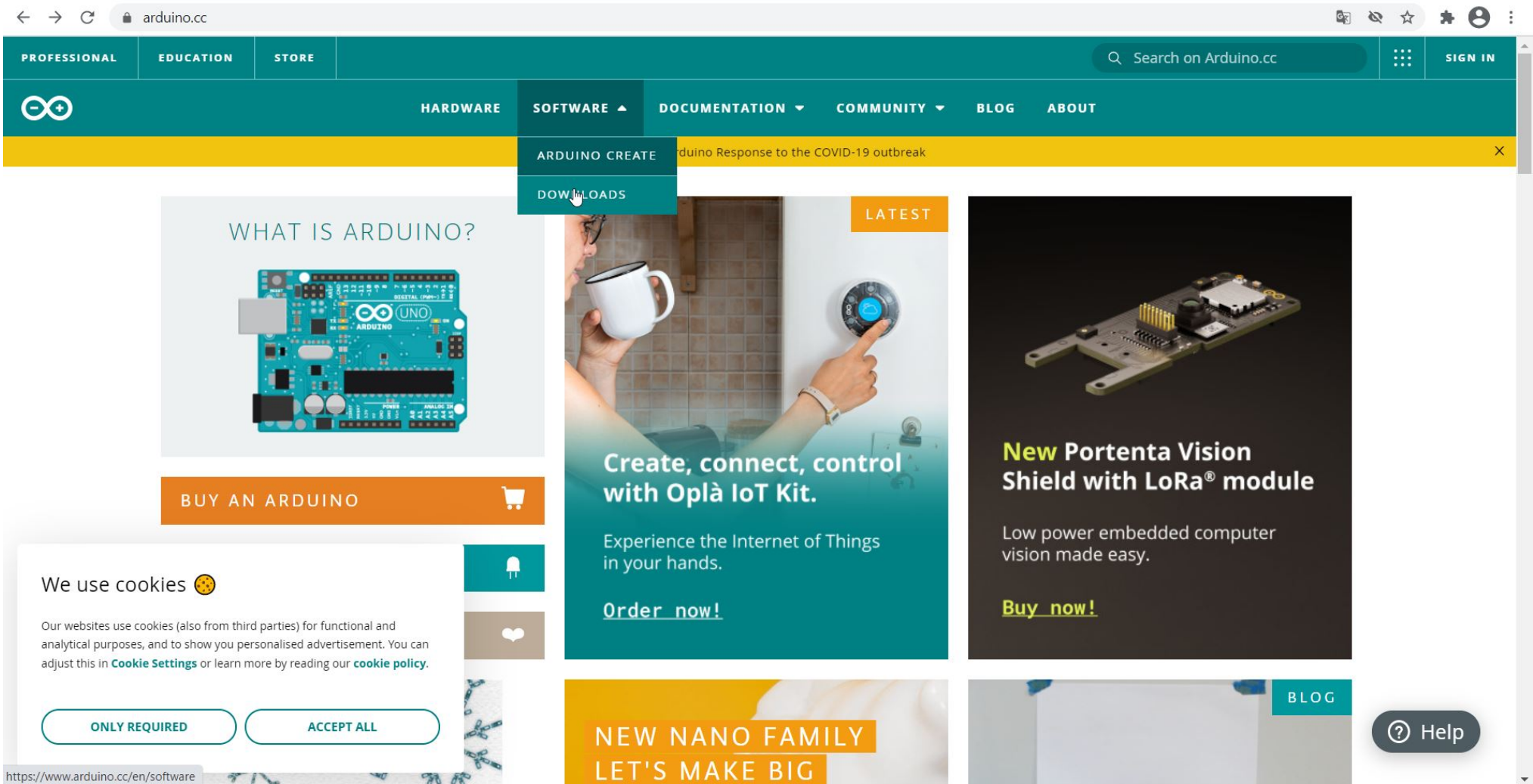


In einem Web-Browser “arduino.cc” aufrufen und dort unter “Software” “Downloads” anwählen.



The screenshot shows the Arduino.cc website interface. At the top, there is a navigation bar with the following items: PROFESSIONAL, EDUCATION, STORE, a search bar labeled "Search on Arduino.cc", and a SIGN IN button. Below this is a secondary navigation bar with the Arduino logo and menu items: HARDWARE, SOFTWARE (with a dropdown arrow), DOCUMENTATION (with a dropdown arrow), COMMUNITY (with a dropdown arrow), BLOG, and ABOUT. A yellow banner below the navigation bar contains the text "ARDUINO CREATE" and "duino Response to the COVID-19 outbreak" with a close button (X). The "SOFTWARE" dropdown menu is open, showing "ARDUINO CREATE" and "DOWNLOADS" (which is highlighted by a mouse cursor). The main content area features several promotional cards: "WHAT IS ARDUINO?" with an image of an Arduino Uno board and a "BUY AN ARDUINO" button; "Create, connect, control with Oplà IoT Kit." with an image of a person using a smart mug and a "LATEST" tag; "New Portenta Vision Shield with LoRa® module" with an image of the shield and the text "Low power embedded computer vision made easy." and a "Buy now!" link; and "NEW NANO FAMILY LET'S MAKE BIG" with an image of a Nano board. A "BLOG" button is also visible. A cookie consent banner is present at the bottom left, and a "Help" button is at the bottom right. The URL in the browser's address bar is "https://www.arduino.cc/en/software".

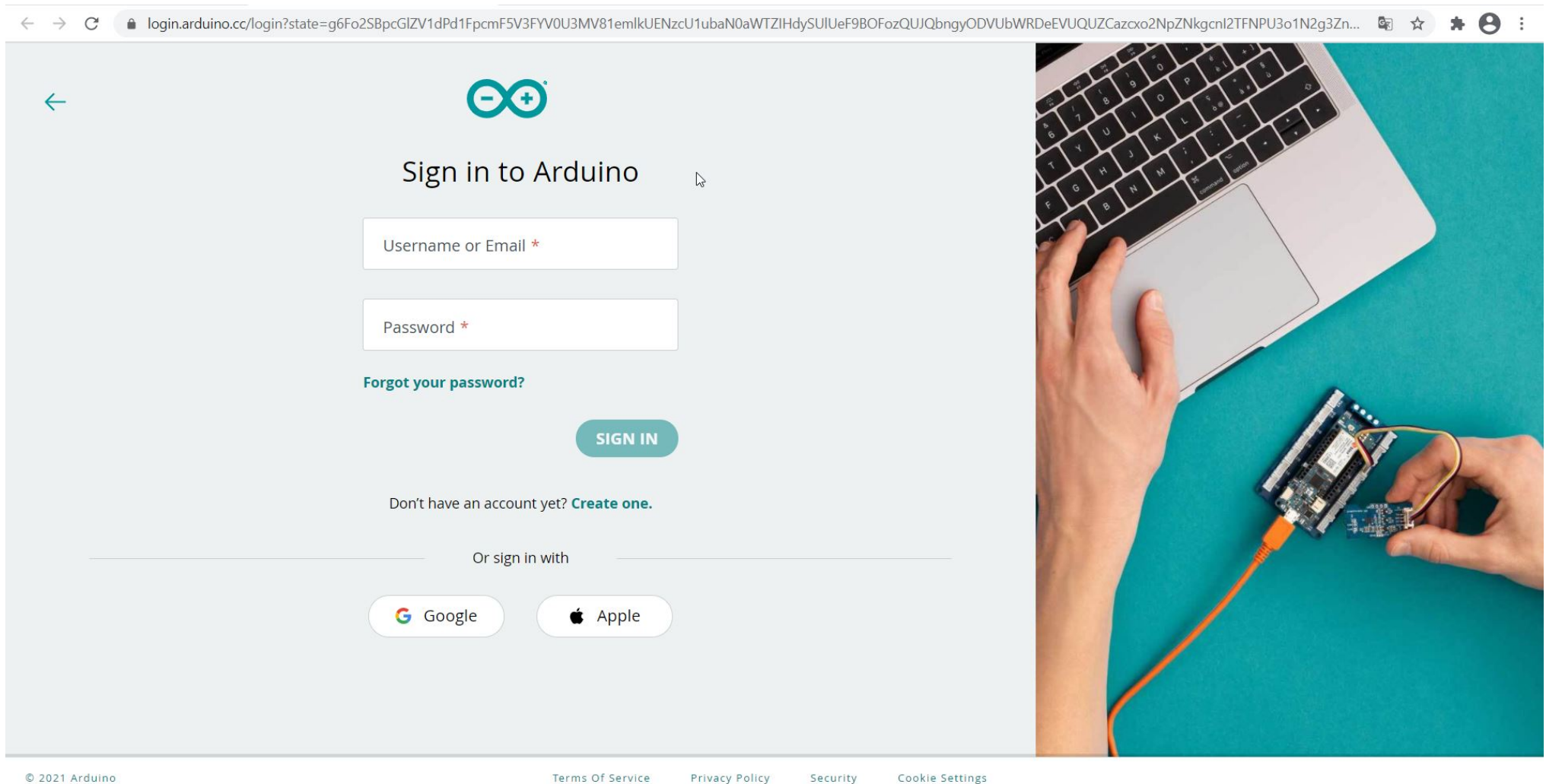
Im ersten Kästchen mit dem Titel “Arduino Web Editor” findet sich die Schaltfläche “Code Online”

The screenshot shows the Arduino.cc website's software page. The browser address bar displays 'arduino.cc/en/software'. The navigation bar includes 'PROFESSIONAL', 'EDUCATION', and 'STORE' on the left, and a search bar with 'Search on Arduino.cc' and a 'SIGN IN' button on the right. Below this, a secondary navigation bar lists 'HARDWARE', 'SOFTWARE' (highlighted), 'DOCUMENTATION', 'COMMUNITY', 'BLOG', and 'ABOUT'. The main content area features a card for 'Arduino Web Editor' with the text: 'Start coding online and save your sketches in the cloud. The most up-to-date version of the IDE includes all libraries and also supports new Arduino boards.' Below the text are two buttons: 'CODE ONLINE' and 'GETTING STARTED'. To the right of the text is a preview image of the IDE interface. Further right is a promotional graphic with snowflakes and the text: 'Good things come with a click, it's winter sales season!'.

## Downloads

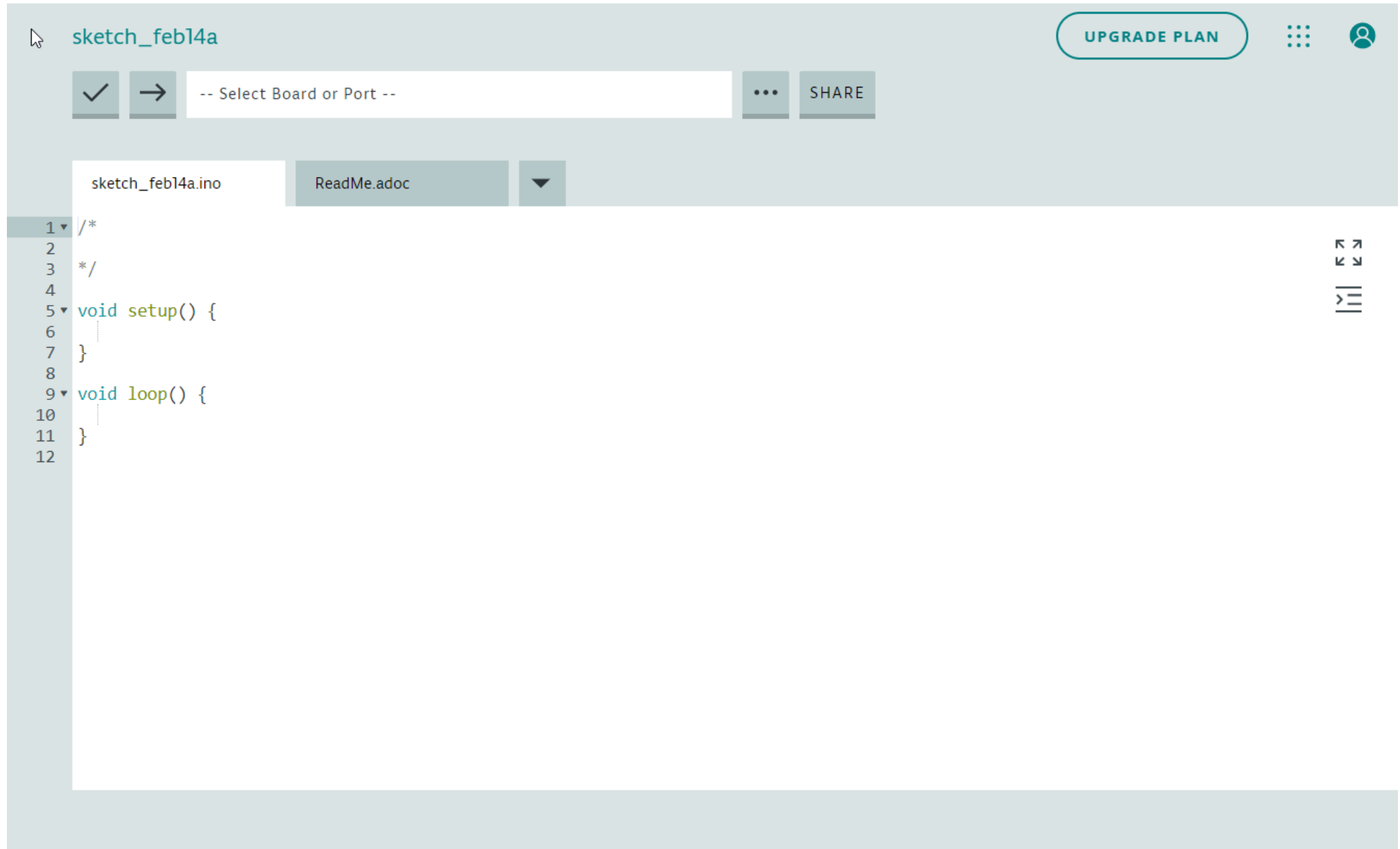
The screenshot shows the 'Downloads' section for Arduino IDE 1.8.13. On the left, there is the Arduino logo and the title 'Arduino IDE 1.8.13'. Below the title, a paragraph states: 'The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. This software can be used with any Arduino board.' A second paragraph refers to the 'Getting Started' page for installation instructions. Under the heading 'SOURCE CODE', it mentions that active development is hosted by GitHub and provides links for building the code and accessing source code archives. On the right, a teal box titled 'DOWNLOAD OPTIONS' lists: 'Windows Win 7 and newer', 'Windows ZIP file', 'Windows app Win 8.1 or 10' (with a 'Get' button), 'Linux 32 bits', 'Linux 64 bits', 'Linux ARM 32 bits', 'Linux ARM 64 bits', and 'Mac OS X 10.10 or newer'. At the bottom of this box are links for 'Release Notes' and 'Checksums (sha512)'. A 'Help' button is visible in the bottom right corner of the page.

Unter “Sign in to Arduino” entweder Benutzername und Passwort eingeben oder auf “Create one” klicken.



The image shows a screenshot of the Arduino login page. The browser's address bar displays the URL: `login.arduino.cc/login?state=g6Fo2SBpcGlZV1dPd1FpcmF5V3FYV0U3MV81emlkUENzcU1ubaN0aWTZIHdySUIUef9BOFozQUJQbngyODVUubWRDeEVUQUZCazcxo2NpZNkgcnl2TFNPU3o1N2g3Zn...`. The page features the Arduino logo at the top center, followed by the heading "Sign in to Arduino". Below this are two input fields: "Username or Email \*" and "Password \*". A link for "Forgot your password?" is positioned below the password field. A teal "SIGN IN" button is centered below the form. Below the button, the text "Don't have an account yet? [Create one.](#)" is displayed. A horizontal line separates this section from the "Or sign in with" section, which contains two buttons for "Google" and "Apple". The right side of the page is a vertical image showing a person's hands connecting an Arduino board to a laptop on a teal surface. The footer contains the text "© 2021 Arduino" on the left and links for "Terms Of Service", "Privacy Policy", "Security", and "Cookie Settings" on the right.

Nach dem Anmelden zeigt sich die Programmieroberfläche.

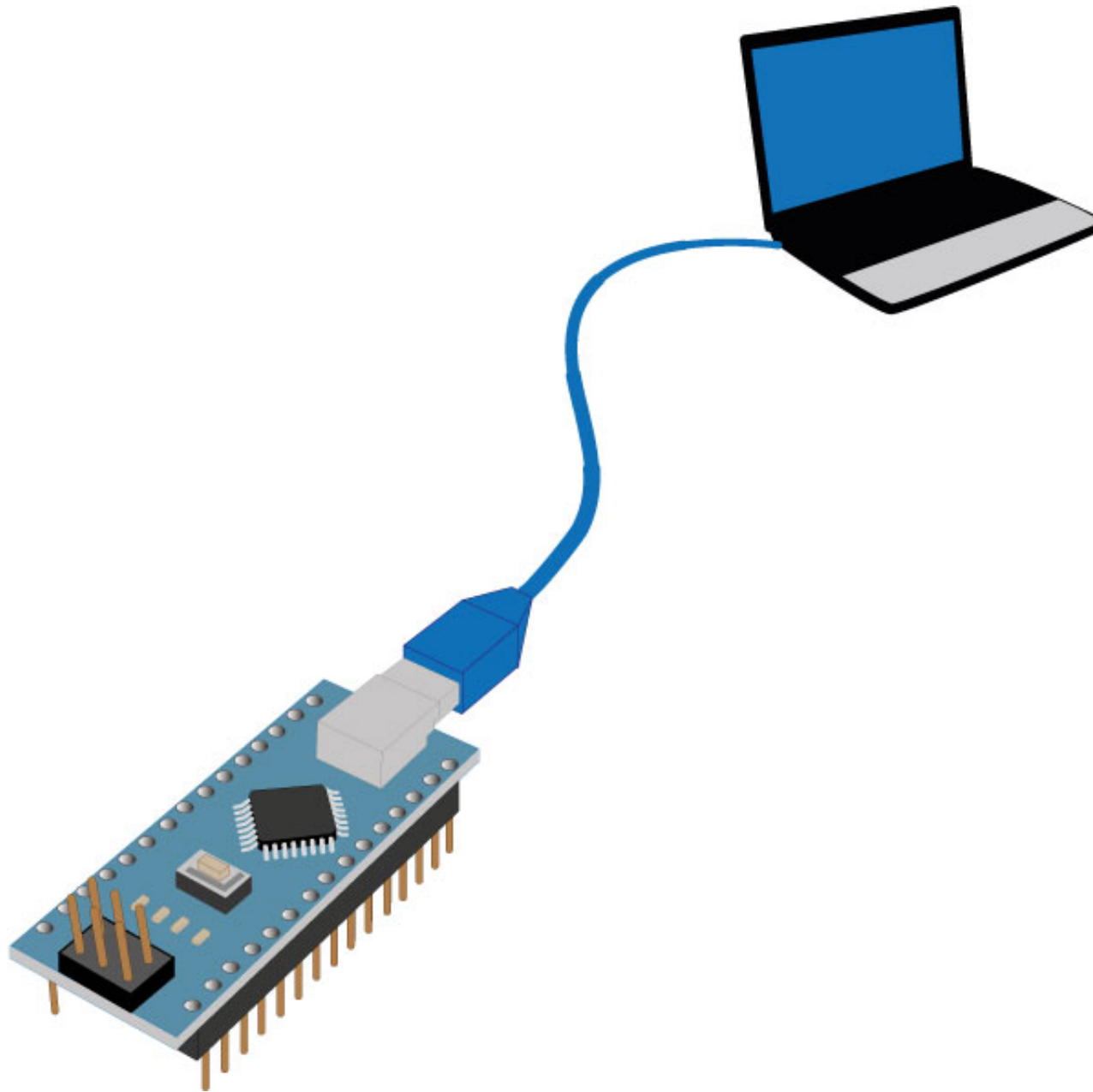


The screenshot displays a web-based IDE interface. At the top left, the project name "sketch\_feb14a" is visible. To the right, there is an "UPGRADE PLAN" button, a grid icon, and a user profile icon. Below the project name, there is a toolbar with a checkmark icon, a right-pointing arrow icon, a dropdown menu containing "-- Select Board or Port --", a three-dot menu icon, and a "SHARE" button. The main workspace shows a file explorer with "sketch\_feb14a.ino" and "ReadMe.adoc". The code editor displays the following code:

```
1 /*
2
3 */
4
5 void setup() {
6     .....
7 }
8
9 void loop() {
10     .....
11 }
12
```

On the right side of the code editor, there are three icons: a zoom in/out icon (two arrows pointing outwards), a zoom reset icon (two arrows pointing inwards), and a list icon (three horizontal lines).

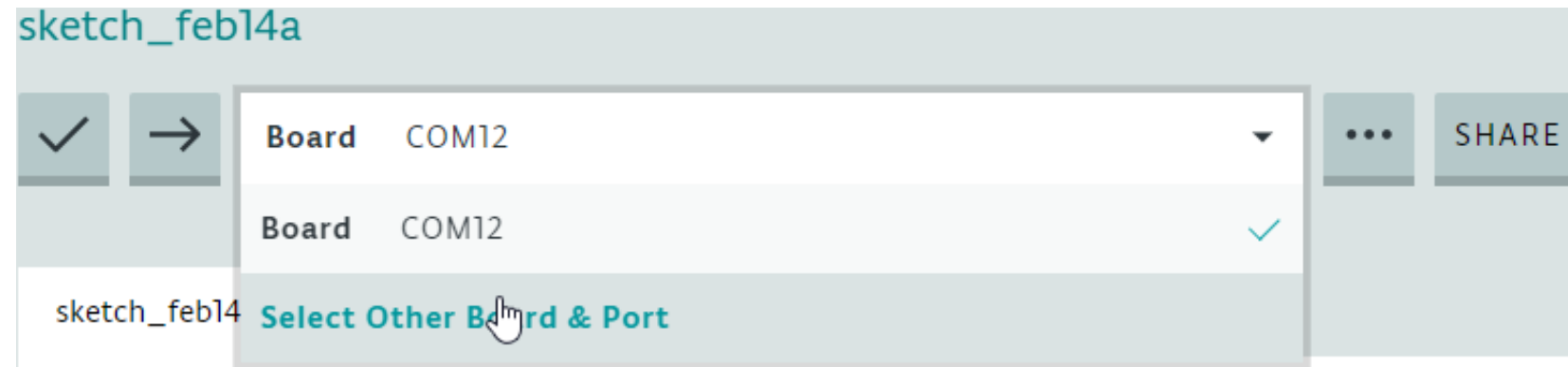
Nun den Mikrocontroller an einen USB-Port des Rechners anschließen.



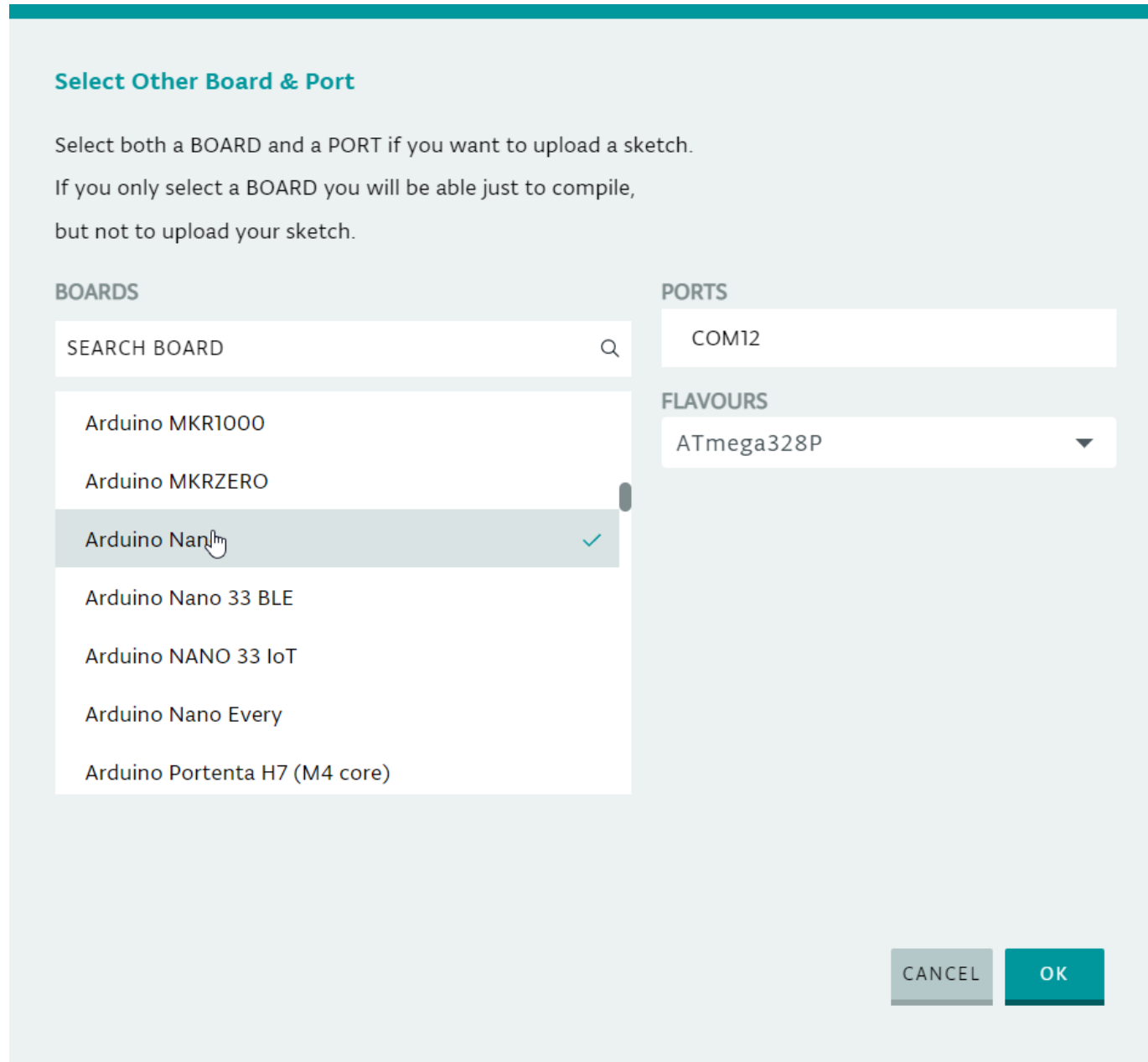
Im Web-Editor wird angezeigt, dass an einem bestimmten COM-Port ein Board angeschlossen wurde.



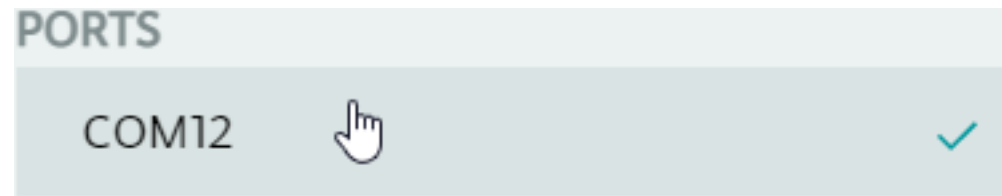
Ein Klick auf diese Anzeige, macht es möglich, weitere Einstellungen vorzunehmen.



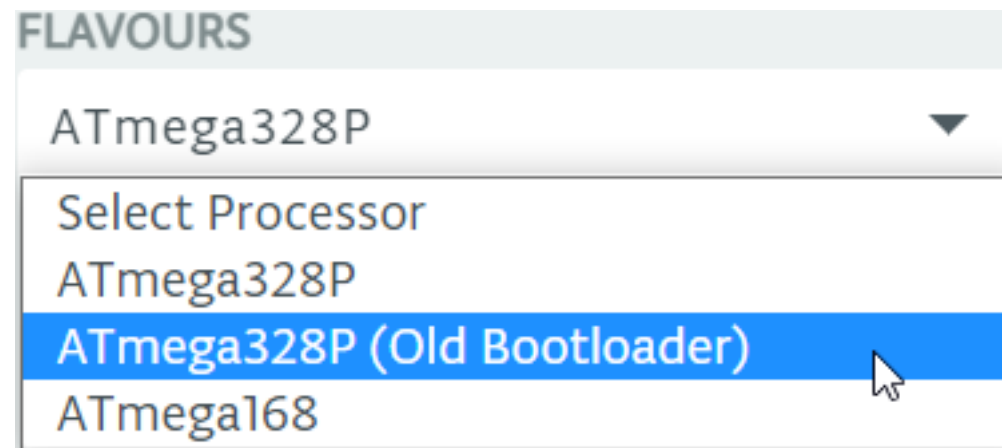
In dem sich öffnenden Fenster links das passende Board suchen.



COM-Port ...



... und Prozessortyp auswählen.





Zum Abschluss die gewählten Einstellungen mit “OK” bestätigen.

**Select Other Board & Port**

Select both a BOARD and a PORT if you want to upload a sketch.  
If you only select a BOARD you will be able just to compile,  
but not to upload your sketch.

**BOARDS**

SEARCH BOARD

- Arduino Nano ✓
- Arduino Nano 33 BLE
- Arduino NANO 33 IoT
- Arduino Nano Every
- Arduino Portenta H7 (M4 core)
- Arduino Portenta H7 (M7 core)
- Arduino Primo

**PORTS**

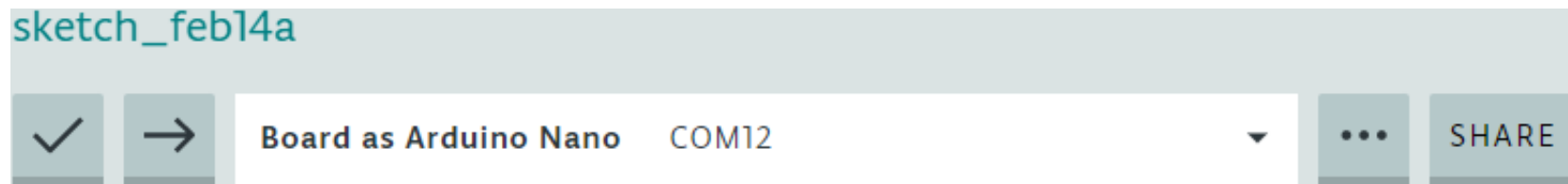
COM12 ✓

**FLAVOURS**

ATmega328P (Old Bootloader) ▼

CANCEL

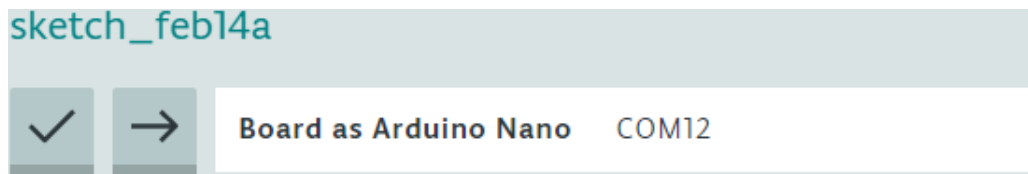
Im Web-Editor werden diese Einstellungen übernommen, ...



Der Arduino Nano kann nun programmiert werden, entweder selbst ....

```
sketch_feb14a.ino  ReadMe.adoc  ▼
1 ▾ /* Was zwischen Schrägstrich plus Stern und Stern plus Schrägstrich
2   geschrieben steht, bleibt ohne Einfluss auf den Programmcode.
3
4   */
5
6 ▾ void setup() {
7     digitalWrite(13, 150); //Ein doppelter Schrägstrich trennt innerhalb dieser Zeile Code von Kommentaren.
8     delay(3000);
9     digitalWrite(13, 0)
10  }
11
12 ▾ void loop() {
13
14  }
15
```

... oder durch eines der vielen Beispielprogramme.



Für das Übertragen des Programms zum Arduino Nano auf den Pfeil links neben dem Eintrag "Board as ..." klicken.

