



Grade 1: Materials, Objects, and Everyday structures

# LET'S BUILD A TREE HOUSE

# What do you see?



Tree

A natural  
structure

Tree House

A man-made  
structure

# Let's take a closer look...





# Materials are used to make structures.



**Materials are used to make structures.**



# Materials are used to make structures.



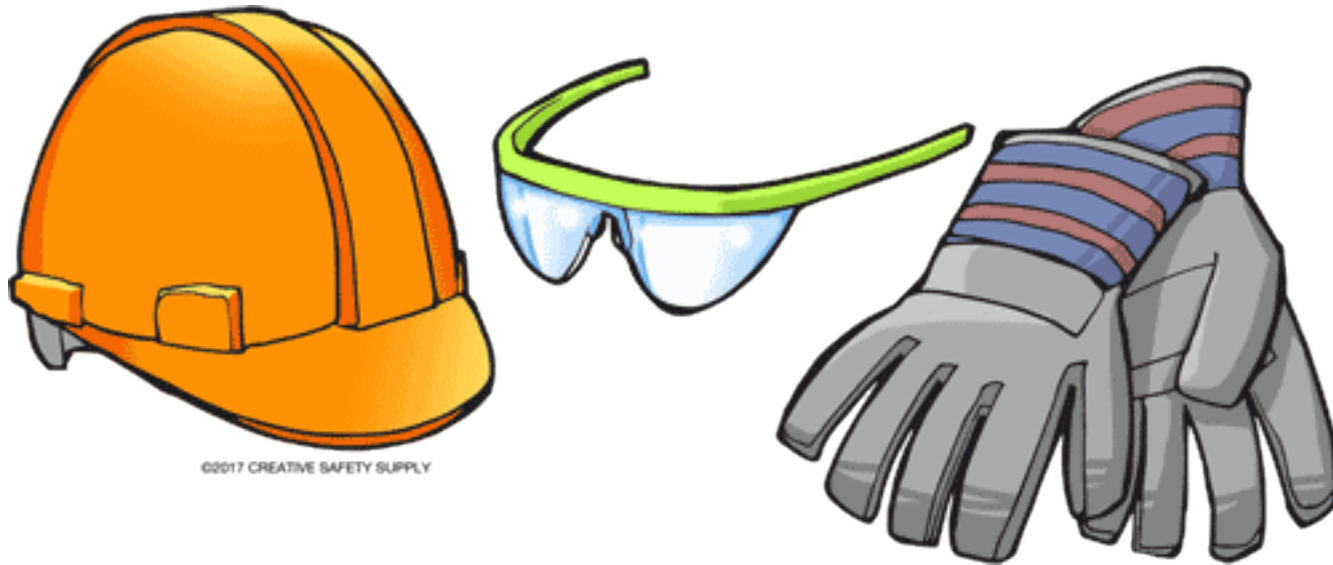
Fastener: Holds materials together.

# Materials are used to make structures.





# Materials are used to make structures.





# Let's play a game!

- What do you think of when you hear the word

**CODE?**



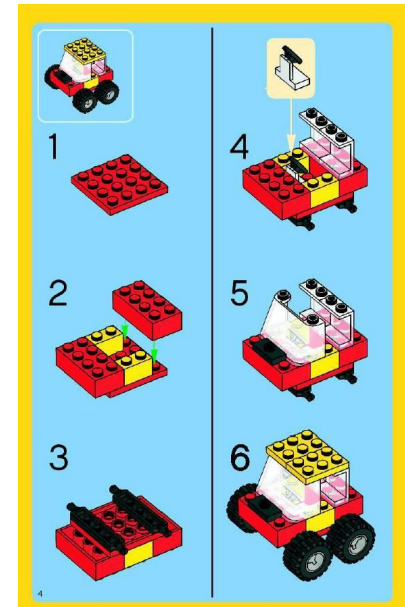
# What is a code?

A code is a set of instructions.

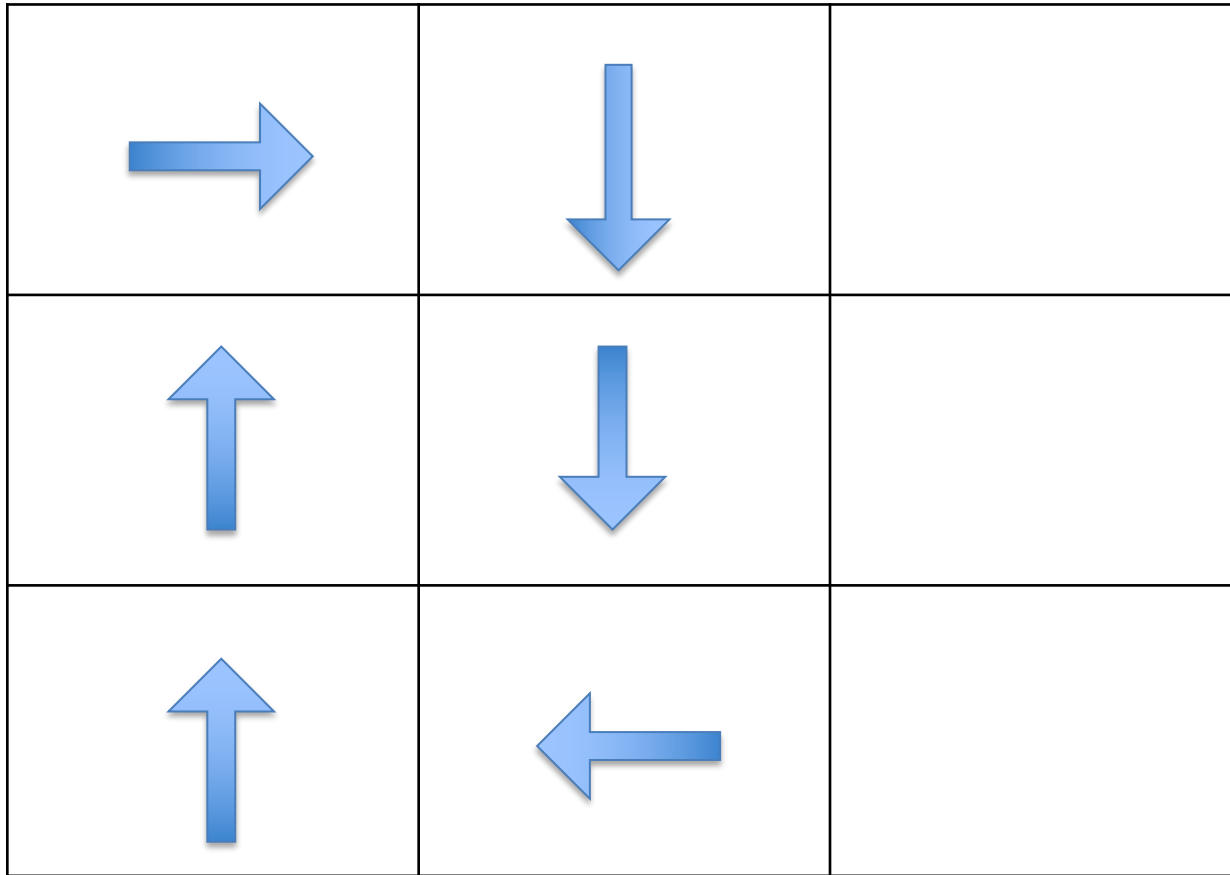
It can look like this...

```
for i in people.data.users:
    response = client.api.statuses.user_timeline.get(screen_name=i.screen_name)
    print 'Got', len(response.data), 'tweets from', i.screen_name
    if len(response.data) != 0:
        ldate = response.data[0]['created_at']
        ldate2 = datetime.strptime(ldate, '%a %b %d %H:%M:%S +0000 %Y')
        today = datetime.now()
        howlong = (today-ldate2).days
        if howlong < daywindow:
            print i.screen_name, 'has tweeted in the past', daywindow,
            totaltweets += len(response.data)
            for j in response.data:
                if j.entities.urls:
                    for k in j.entities.urls:
                        newurl = k['expanded_url']
                        urlset.add((newurl, j.user.screen_name))
        else:
            print i.screen_name, 'has not tweeted in the past', daywindow
```

It can look like this...

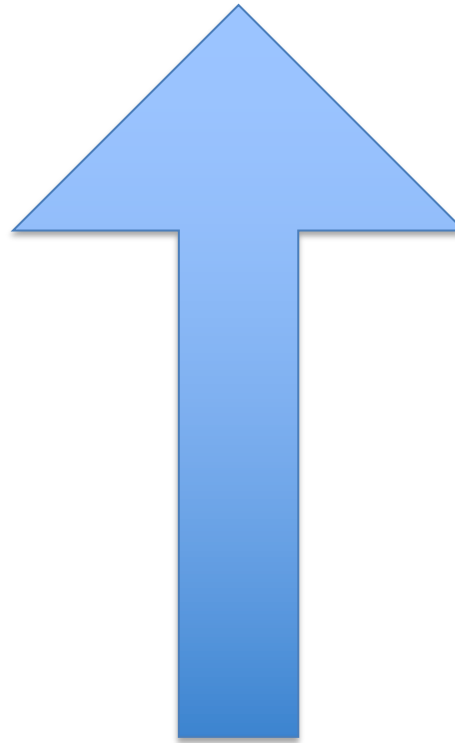


# Today it's going to look like this...



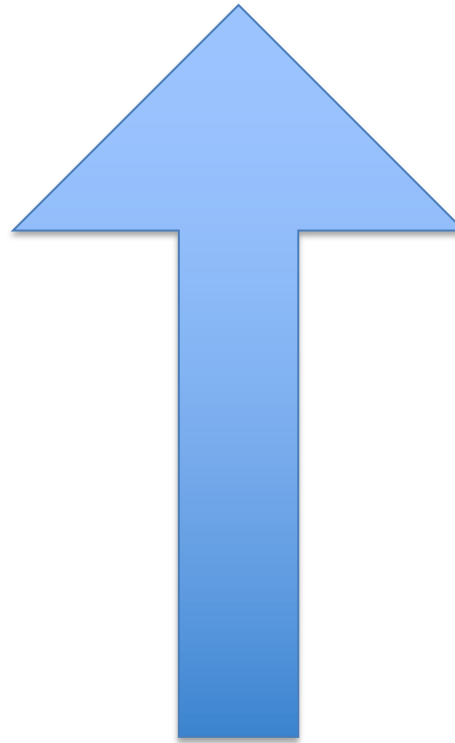
**Start Here**

# Step 1: 1 step forward

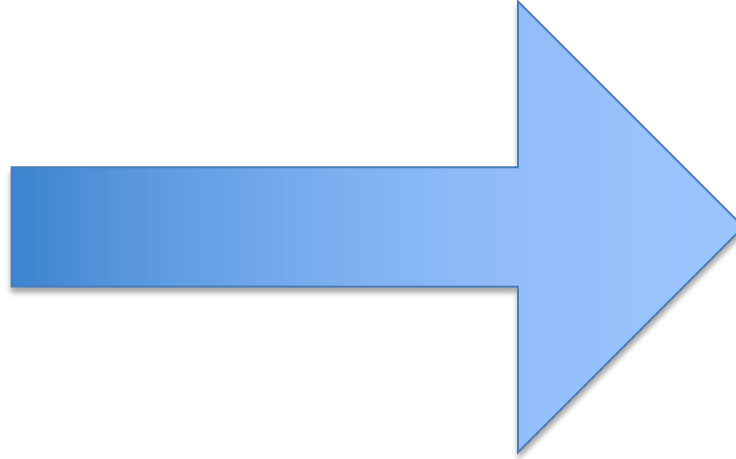




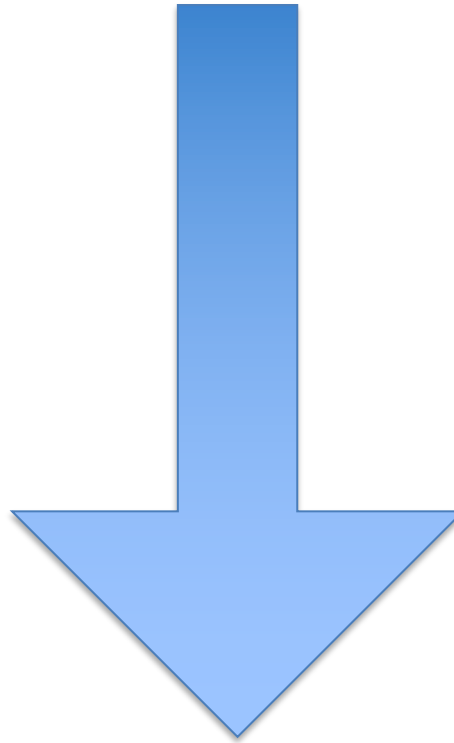
# Step 2: 1 step forward



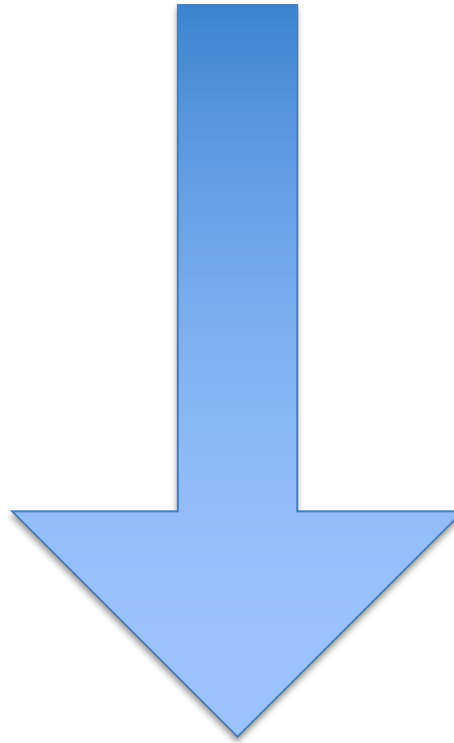
# Step 3: 1 step right



# Step 4: 1 step backward

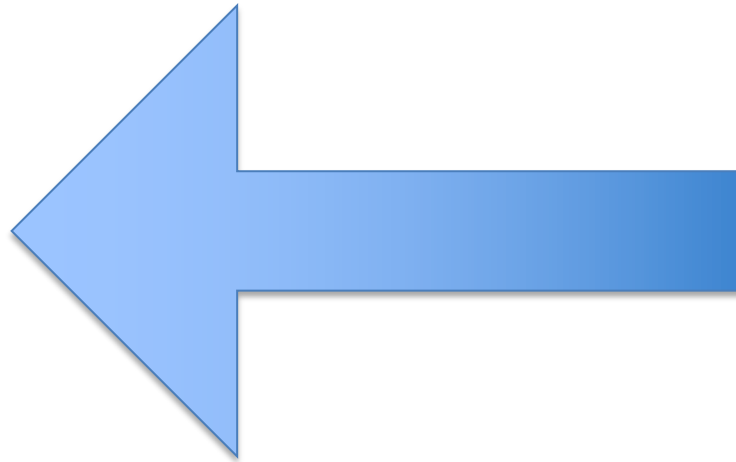


# Step 5: 1 step backward





# Step 6: 1 step left



# Image sources

- Slide 1: Bob the Builder and Friends
  - <https://www.familyjr.ca/shows/bob-the-builder/>
- Slide 2-3: Tree House
  - <http://resolve40.com/treehouse-for-kids-in-your-backyard/how-to-build-a-treehouse-for-kids-step-by-step/>
- Slide 4: Wood
  - <https://www.popsci.com/two-by-four-lumber-measurements-explained/>
- Slide 5: Cardboard box
  - <https://www.cargocabbie.ca/product/corrugated-cardboard-box-12-x-12-x-9/>
- Slide 6: Hammer and Nails
  - <https://pndblog.typepad.com/.a/6a00e0099631d0883301b8d1ae7f4e970c-popup>
- Slide 7: Dirt
  - <https://www.sciencenewsforstudents.org/articles/explainer-what-makes-dirt-different-soil>
- Slide 8: Helmet, Gloves, Goggles
  - <https://www.creativesafety.com/articles/crane-safety/>
- Slide 9: Computer Code
  - <https://www.economist.com/the-economist-explains/2015/09/08/what-is-code>
- Slide 9: Lego Instructions
  - <https://letsbuilitagain.com/instructions/6166/>