

# UNIT 9 REVIEW GUIDE

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## KEY TERMS & DEFINITIONS

### Wireframe

A visual guide that represents the skeletal framework of a website.

### Front-End

- » What the user sees.
- » Powers the visuals and interactions of the web.
- » Is composed of HTML, CSS, and Javascript.

### Back-End

- » What goes on behind the scenes of the web.
- » Consists of databases, servers etc.
- » Composed of many different languages: Ruby (Ruby on Rails), Node.js, PHP, Python, C++, etc.

### Command Line

A text-based interface, where you communicate with your computer using text alone.

### Git

A version control system used for software development

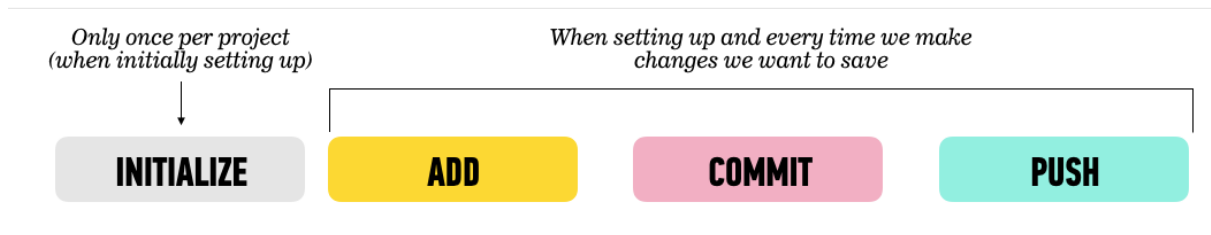
### GitHub

A web-based Git repository hosting service. On GitHub, developers can share their code, comment on it, and review code changes with one another.

### Repository

Special directories used for tracking changes in multiple files using Git.

## Steps to get Git up and running:



### Add

To add file contents to your staging area before you commit them.

### Commit

To save a "snapshot" of your project at a moment in time.

### Push

To push commits made on your local branch to a remote repository.

### GitHub Pages

Web pages designed to host your personal, organization, or project pages directly from a GitHub repository.

### Heroku

One of the world's most widely used hosting services for web applications.

### Google Maps API

Allows developers to add maps to webpages and customize the map's appearance and the information displayed.

### Google Maps Object

Used to create a new map.

This constructor takes two parameters:

1. The HTML element in the page we want to use as a container for the map (in our case, the div with the ID #map we added in our HTML).
2. An object literal containing map options.

Example:

```
function initMap() {  
  var map = new google.maps.Map(document.getElementById('map'), {  
    center: {lat: -34.397, lng: 150.644},  
    zoom: 8  
  });  
}
```

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## GUIDING QUESTIONS

1. Why are wireframes an important part of the design and development process?
  2. What is the process for building a website?
  3. What is the difference between front and back-end development?
  4. What is the command line?
  5. Why would a developer want to use a version control system?
  6. Describe Git and GitHub.
  7. What is the process for updating files on GitHub?
  8. Why do developers need to deploy projects?
  9. What are some popular options for deployment?
  10. Where can you look when you have questions or run into issues you need to troubleshoot when implementing Google Maps?
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Commands	Description
pwd	Print working directory
ls	List the contents of the directory
cd	Change directories
mkdir	Make directory
rmdir	Remove empty directories
rm	Remove files or directories
touch	Open Sublime Text
subl	Find the previous sibling of an initial selection
./	The current folder
../	One folder above your current working directory
~/	The home folder

## Git Commands

	Description
<code>git --version</code>	Check to see what version of Git is installed
<code>git init</code>	Initialize a repository
<code>git status</code>	Provide an update on the status of our project
<code>git add -A</code>	Add all changes to the staging area
<code>git commit -m "my message"</code>	Record a "snapshot" of the project, along with a message
<code>git log</code>	View a timeline of your changes
<code>git push -u origin master</code>	Push commits made on your local branch to a remote repository
<code>git remote -v</code>	List the remote repository to which an application is connected

## Google Map Controls

	Description
Zoom level	The initial resolution at which a map is displayed
Map Type control	Allows the user to choose a map type (ROADMAP, SATELLITE, HYBRID, or TERRAIN)
Street View control	Contains a Pegman icon that can be dragged onto the map to enable Street View
Rotate control	Provides a combination of tilt and rotate options for maps containing oblique imagery
Scale control	Displays a map scale element
Fullscreen control	Offers the option to open the map in fullscreen mode