

First name (color-in initial)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	section (4, 5 or 6)	first name initial	last name initial
Last name (color-in initial)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z			

## H02: Due Monday, 01.12 in Lecture

### Introducing Github (GHBB Ch1, Ch2)

Assigned: Wed 01.07      Total Points: 50

MAY ONLY BE TURNED IN IN THE LECTURE/LAB LISTED ABOVE AS THE DUE DATE, or offered in person, for in person grading, during instructor or TAs office hours. See the course syllabus at <https://foo.cs.ucsb.edu/56wiki/index.php/W15:Syllabus> for more details.

(1) (10 pts) Fill in the information below. Also, fill in the A-Z header by

- **coloring in** the first letter of your first and last name (as it appears in Gauchospace),
- writing **either 4, 5, or 6** to indicate your **discussion section (lab)** meeting time
- writing your **first and last initial** in large capital letters.

All of this helps us to manage the avalanche of paper that results from the daily homework.

name:	
umail address:	@umail.ucsb.edu

If you collaborated with AT MOST one other person on this homework, write his/her name below. She/he should also have your name on his/her paper.

As discussed in lecture on 01.05, there are three textbooks for this course, all of which are available free online for UCSB students—ALTHOUGH that availability comes with a major caveat: it could disappear at any time without warning if/when too many people in the UC system are simultaneously accessing the O'Reilly online library (the entire University of California has a single system wide license with a limited number of users.)

Those textbooks are these:

Abbrev	Title	Edition	Author(s)	Topics	ISBN	list price	street price
HFJ	Head First Java	2nd	Bert Bates and Kathy Sierra	Java (up through Java 5)	ISBN 978-0-596-00920-5	\$44.95	\$29 new \$22 new
J8PG	Java 8 Pocket Guide	1st	Robert Liguori and Patricia Liguori	Java versions 6,7,8	ISBN 978-1-4919-0086-4	\$14.99	\$12 new \$10 used
GHBB	Introducing GitHub: A Non-Technical Guide	1st	Peter Bell and Brent Beer	Git and Github	ISBN 978-1-4919-4974-0	\$24.99	\$19 new \$17 used

All three textbooks are published by O'Reilly. Source for street prices: Amazon.

For this homework assignment, you are assigned to read from the GHBB (Github, by Bell and Beer) textbook. Please read Chapters 1, and then answer the questions on the back. The discussion in lecture on 01.07 may also be useful.

You can find links to the online versions of the textbooks in the "textbooks" page on the left hand menu of the wiki ([foo.cs.ucsb.edu/16wiki](https://foo.cs.ucsb.edu/16wiki)).

(Please turn over)

For the questions on this page, give the shortest answer that clearly and concisely explains the most relevant idea—that explains the main point. Answer as if you were in a technical job interview, and you wanted to get the job. Answers that make me want to hire you get full points. Answers that make me think you are not someone I want to hire, even if true, will not get full points.

As an example of an answer that is technically "correct", but misses the point and makes me not want to hire you:

- Q: What's the difference between 'git' and 'github'?
- A: github has three extra letters: h, u and b.

That joke answer *might* make me want to hire you if it were *immediately* followed by an answer that was on point and actually explained the difference. Also note that just "copying words out of the book" does not really convey understanding. Try to understand the concept rather than just copying down words.

(2) (8 pts) Seriously, what is the difference between "git" and "github"?

(3) (8 pts) What is the difference between "cloning" a repo and "forking" a repo?

(4) (8 pts) What is the relationship between a "branch" and a "commit"?

(5) There are benefits to using a version control system such as git and a service such as github that are true even if you are working entirely alone. List two of those benefits.

- (a) (4 pts)

- (b) (4 pts)

(6) There are other benefits to using a version control system such as git and a service such as github that are more applicable when working in a pair or on a team. List two of those benefits:

- (a) (4 pts)

- (b) (4 pts)