



# Spring Framework 6

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Beginner to Guru

Getting Help With Spring



## Step One - Troubleshooting

- First try to determine the root cause
  - Read through stack trace in console, look for an error message
  - Often error message will mean exactly what it says
    - i.e. - file not found - File is not found where the program is looking
      - Path wrong, permissions issue?, typo in file name?
  - This often gets me too, when I miss understand the meaning of the message





## Step One - Troubleshooting - Cont.

- Change **ONE** thing at a time, re-test
  - Prevents you from fixing one thing, while breaking another!
  - With multiple changes you might cover up the fix by introducing another error
- Use the debugger
  - When appropriate, set a break point and inspect the code to see what is happening
- If error is in 3rd party library use the IDE to download the sources and read the JavaDoc



## Step One - Troubleshooting - Cont.

- There is no shame in Googling the error!
  - I do this all the time!!!
  - You are likely NOT the first person to encounter the error
  - Search results often give you the solution, or at least point you in the right direction
- Check the course Q&A for the lesson
  - Good chance another student has encountered the problem and the solution is in Q&A





## Reporting a Problem

- When reporting an problem:
  - Describe the error and provide details of the error message
  - Describe the expected results
  - Describe how to reproduce the error
  - Provide a link to your GitHub repository with failing code





## Example of Reporting a Problem

- Hi, I'm getting a null pointer error when saving a product
- Here is a link to a gist with the full stack trace
- Here is a link to my GitHub repository
- Run the test "ProductService.saveNewProduct" to reproduce







## Things to do when reporting a problem

- Be clear and specific about the problem
- Provide the expected results
- Provide the stack trace if applicable - create a gist!
- Provide your source code, not just snippets





## Things NOT to do when reporting a problem

- Don't be vague
  - ie “I have a problem, can you help me. Here is my GitHub...”
- Unless necessary, not take screenshots of the error message
- Never send a picture of your computer screen - impossible to read & typically useless
- Don't cut and paste each class file you think is relevant - Use GitHub so error can be reproduced
  - Code snippets are okay when relevant







## Where to Report for Help

- For problems in course:
  - Use the lecture Q&A or Slack
  - Both are monitored by myself, my assistants and other students
- For Spring Framework in general:
  - Stackoverflow
  - GitHub respective to Spring project
  - Gitter respective to Spring project



