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Learn to code with baseball

The Baseball Codes — colloquially referred to as the unwritten rules of the game — comprise the methods players use to police themselves and each other. It's a moral code that, on and off the field, is used to keep the game pure. Click on the covers to pick the books you want. All 7 books are selected right now. Price: \$553 \$313 (you save \$240) All these books cover the same fundamental programming and data science topics. If you read one, you should be able to apply the concepts to other areas, whether that's other sports or a day job. That's why for most people, I'd recommend most just buying whichever sport you like most. But, because people have asked, here are the main differences/reasons you might pick up more than one: Each sport has different ways of getting data via APIs. Whether directly from the league APIs (baseball, hockey) or via a third party Python library (basketball). These are fairly specialized and we walk through each in depth in all the books, so if you wanted to get a good handle on getting data for multiple sports (or just want API practice), it might be worth getting more than one. More generally, each book includes an appendix on places to get ready made datasets. For some sports (e.g. football and soccer) the datasets available are high quality and ready to download. For other sports (hockey and basketball) getting your own data via the API is probably the best way to go. The hockey, basketball, and soccer versions include shot charts. Getting these to look right is a tad finniky, and these include instructions, a background image, and code examples for getting it right. While all books cover the same core modeling concepts (linear regression, logistic regression, fixed effects, Random Forests, cross validation etc) the examples are a bit different, especially in football, baseball vs the other shooting sports. The end of chapter problems (and solutions!) are different in each book, so if you want extra practice, more sports might help. Bundle Checkout Buying as a gift? Click here! Includes book, datasets, example scripts, end of chapter problems with full solutions, and flashcards for the following books:Learn to Code with BasketballLearn you're not satisified, contact me within 30 days and I'll refund you the purchase price. Follow Us on Twitter @FantasyDataPros These are the files for the book Learn to Code with Baseball. If you're not familiar with Git or GitHub, no problem. Just click the Source code link under the latest release to download the files. This will download a file called Itcwbb-files-vX.X.X.zip, where X.X.X is the latest version. When you unzip these (note in the book I've dropped the version number and renamed the directory just ltcwbb-files, which you can do too) you'll see four sub-directories: code, data, anki, solutions-to-excercises. You don't have to do anything with these right now except know where you put them. For example, on my mac, I have them in my home directory: /Users/nathanbraun/ltcwbb-files If I were using Windows, it might look like this: C:\Usersathanbraun/ltcwbb-files Set these aside for now and we'll pick them up in chapter 2. Added a note explaning granularity in the main text, before asking any end of chapter exercises on it (see issue [#2][i2]) Pretty big update to scraping section to make things clearer. Also added note on 403 response issue people were running into while scraping Baseball Almanac. Thanks to everyone who emailed me about this. Updated file path in random forest section (see issue #1) Add end of chapter exercises for scraping and visualization (more coming soon). Thanks Chris! Expanded visualization section to include scatter and line plots. Fixed some scraping in book to match what was in the code (thanks Brooks, Mark!) Updated visualization section + associated homework problems to use Seaborn 0.11.x (September 2020), which added a new displot function. This means making our distribution plots change from, say: g = (sns.FacetGrid(df) .map(sns.kdeplot, 'mpg', shade=True)) To: g = sns.displot(df, x='mph', kind='kde', fill=True) It also opens up some new possibilities (e.g. with plotting empirical CDFs) that I might discuss in a future update. Add this changelog, bundle files in an github release vs including with SendOwl. The time has come! The MLB + Python learning course has arrived. If you'd rather get most of this information from a video of me talking, here you go: But everything you need is written below as well, I would advise reading everything below regardless of whether you watch the video or not. For a quick preview of what the course looks like, what you'll be able to do after completing it, watch this short video: Step 1: Fill Out This FormStep 2: If you are a student, e-mail a picture of your student ID to Jon2Anderson@gmail.com Step 3: Wait for the invoice to come to your e-mail, and submit payment through that link. Step 4: Wait for me to share the files and first video link to your files, unzip them, and then upload them to your own Google Drive, and then you'll be off and running. The first video that you will receive walks you through this process. This course teaches you the basics (and more) of the Python programming language, and it teaches all of the skills through the use of the MLB Baseball Savant / StatCast dataset, which is completely free to the public. This dataset generates 90+ data points for every pitch thrown in all MLB games. At the end of this season, there will be around 750,000 rows in the dataset, all representing a pitch thrown in an MLB games. This is a massive amount of data. It powers everything you see on Baseball Savant player pages and even the graphics and analysis you see during games. To a person without coding knowledge, there is nothing you can do with this much data. However, if you are proficient in Python, you can do almost anything in terms of generating baseball insights and analytics teams in MLB organizations use. This course is yours to go through at your own pace. It is not live classes, they are all pre-recorded videos and pre-written Python notebooks with all of the code you need. Even if your Python learning stalls, there is plenty of free code you can use to generate statistics and insights along the way. All about the Baseball Savant Dataset Python (basics and some advanced stuff) Data scraping Data aggregation The needed basics of statisticsData visualizationCreating and maintaining custom leaderboards in Google SheetsTableau DashboardsHow start an MLB projection model And more! All of the Python notebooks with the code and the teaching in text formatAll of the Class videos where I answer questions and expand on other stuffIf I told you learning Python was easy, I would not be being honest. If you have absolutely no coding or data analysis experience or knowledge whatsoever, this will be a challenge and will require a lot of time to catch on to everything. But if you are drawn to baseball analytics, that is a good sign that you have the type of brain to be able to learn it with the proper amount of time, patience, and practice. I highly, highly recommend learning these skills (from myself or someone else - there are plenty of free resources out there, but none of them will focus specifically on baseball data) to kids in high school or college that want to get into the data analysis field. Very few people get to work professionally in sports data (I don't do it, this is just a side gig for me), but there is no shortage of very financially and personally rewarding careers out there in this field. Every company has data and needs skilled people to work with it. If you come out of college knowing Python and the basics of data analytics, you are set up great for the rest of your professional life. I am charging \$150 for the full course for non-students, and \$125 for students (high school and undergrad only), but will require you to e-mail me a picture of your current student ID to prove you're not lying!You will pay me directly through a PayPal invoice I generate, but you will be able to pay that with PayPal, Venmo, or a credit card if needed. I really do not know what to expect in terms of how many people will sign up, so I cannot guarantee that I will be able to answer every single question and make time for every person who needs further assistance, but I promise to do my best in that regard. Since I'm immediately giving access to all of the files and videos upon sign-up. I cannot give any refunds, I apologize, But if there are any extreme circumstances, reach out to me and we can talk, I wrote it early in 2020, put it down for a while due to Covid, and picked it back up in the fall, Like the football version, it covers Python, Pandas (Python's main data analysis library). SOL, web scraping, public APIs, data visualization, summary stats and modeling. Because the original football version is much more focused on teaching programming and data science basics, which are similar across domains (including non sports domains!), porting the same concepts to baseball was fairly straightforward. Baseball is much more stat heavy than football, which helped. I personally don't follow it as much as football, which didn't help. But I did some research, and I do like reading baseball books (Moneyball is an all time favorite, also really liked The Only Rule is It Has to Work). One difference is that baseball is much more focused on good composite stats and measuring individual vs (fantasv) football, and the analysis portion of the book reflects that. Reddit and its partners use cookies and similar technologies to provide you with a better experience. By accepting all cookies, you agree to our use of cookies to deliver and maintain our services and similar technologies to provide you with a better experience. of advertising. By rejecting non-essential cookies, Reddit may still use certain cookies to ensure the proper functionality of our platform. For more information, please see our Cookie Notice and our Privacy Policy. More at: www.codebaseball.comLearn Coding & Data Science Fundamentals with Baseball!Includes 215+ page ebook, 23 example Python scripts, 10 datasets, more than 100 end of chapter exercises with full solutions, and 300 Anki questions. Supporting files are in four separate directories in ltcwbb files.zip (code, data, solutions-to-exercises, anki) and need to be unzipped to view. The ebook is stamped with your info, and you'll receive a link to download.---What People Are Saying (about the football book this was based off of) "The book here was really, really well done..." — Bill Connelly, ESPN"....the way the learning is framed here is 10x what you'll get someplace else." — u/Nick5893"Incredible work! Bought it right away. Only 3 chapters in and this book is already better than expected. Worth every penny. Thank you!" u/TheMotizzle"...probably the best / most complete Pandas walk through I've seen." — Bill S"I recently purchased LTCWFF and could not be more satisfied with the content. ...it has been great to work through your in-depth examples learning new skills. I had a previous interest in this sort of analysis and have had intermediate programming experience, but never could tie the two together." — Owen B"I can't tell you how many times I've taken automate the boring stuff, python for finance, etc and while those courses are great.. I seem to be understanding it better because its about a subject I like." — u/financenstuff"I have always wanted to learn a language but always seemed to get discouraged by the 'Hello World' chapters that were never ending. I like I'm learning a ton! Best wishes from a satisfied customer" — Jason K"...your book is great. It's exactly what I needed to motivate me to push through..." — Matt O"...the book is very well structured and easy to follow... I found it very helpful!" — Xiaolu Z"I just bought your book and have to say I enjoy it immensely so far." — Tim Y---This is an early access version, and there will be updates shortly (next few weeks), including a chapter on modeling and connecting to APIs. Don't hesitate to reach out -- nate@fantasymath.com -- with any questions or other feedback. Happy coding! Nate More at: www.codebaseball.comLearn Coding & Data Science Fundamentals with Baseball! Includes 215+ page ebook, 23 example Python scripts, 10 datasets, more than 100 end of chapter exercises with full solutions, and 300 Anki questions. Supporting files are in four separate directories in ltcwbb files.zip (code, data, solutions-to-exercises, anki) and need to be unzipped to view. The ebook is stamped with your info, and you'll receive a link to download.---What People Are Saying (about the football book this was based off of) "The book here was really, really well done..." — "....the way the learning is framed here is 10x what you'll get someplace else." — "Incredible work! Bought it right away. Only 3 chapters in and this book is already better than expected. Worth every penny. Thank you!" — "....probably the best / most complete Pandas walk through I've seen." — Bill S"I recently purchased LTCWFF and could not be more satisfied with the content. ...it has been great to work through your in-depth examples learning new skills. I had a previous interest in this sort of analysis and have had intermediate programming experience, but never could tie the two together.' — "I can't tell you how many times I've tried to get into programming and gave up because it was so dry. This has been such a nice change of pace and I'm loving it. "— Paval M"I'm like ~40 pages in and the simple intro to python chapter is much more engaging for me personally because it's info I'm interested in. I've taken automate the boring stuff, python for finance, etc and while those courses are great.. I seem to be understanding it better because its about a subject I like." — "I have always wanted to learn a language but always seemed to get discouraged by the 'Hello World' chapters that were never ending. I like that your book cuts out the riff raff and teaches the important things! I'm flying through the book and feel like I'm learning a ton! Best wishes from a satisfied customer" — "...your book is great. It's exactly what I needed to motivate me to push through..." — "...the book is great. It's exactly what I needed to motivate me to push through..." — "...the book is great. It's exactly what I needed to motivate me to push through..." — "...the book is very well structured and easy to follow... I found it very helpful!" — "I just bought your book and have to say I enjoy it immensely so far." — ...This is an early access version, and there will be updates shortly (next few weeks), including a chapter on modeling and connecting to APIs. Don't hesitate to reach out -- nate@fantasymath.com -- with any questions or other feedback. Happy coding! Nate Python. Pandas. Web Scraping. Databases. SQL. Machine Learning. APIs. All applied to MLB dataLearning to code isn't hard, you just need to stick with it a bit. That's why the most important thing is starting with a project you're excited about. This book will take you from playing around with stats in Excel to scraping websites, building databases and running your own machine learning models. — 30 day money back guarantee! This book was really, really well done." You'll learn — step by step and applied to baseball — how to program your own analysis. You'll also learn how to make plots like these: "Amazingly awesome... the way the learning is framed here is 10x what you'll get someplace else." About this and related other sport versions — "The book here was really, really well done....." "This is amazingly awesome. I've recently slowly crept into data science driven by a pet passion for fantasy sport analytics. ... the way the learning is framed here is 10x what you'll get someplace else....""...probably the best / most complete Pandas walk through I've seen.""I really loved your book. You did an amazing job on it. ... I've been trying to get my son more into programming, and your book has been perfect... really clicked for him.""Fantastic... literally feels like it was written for me!""...picked up more, and at a better pace, using this than a lot of the free online tools I'd been trying the past few months.""Love the book... My python has come a very long way thanks to you.""I have always wanted to learn a language but always seemed to get discouraged by the 'Hello World' chapters that were never ending. I like that your book cuts out the riff raff and teaches the important things! I'm flying through the book and feel like I'm learning a ton! Best wishes from a satisfied customer.""I have tons of coding books. Yours is a favorite""Dear Nate, I'd like to thank you for a brilliant book. ... It's distilled, without extra and unnecessary... info and challenging at the same time. I'm writing you just to thank you.""Loving this so far!""...much more engaging for me personally because it's info I'm interested in. I've taken automate the boring stuff, python for finance, etc and while those courses are great. I seem to be understanding it better because its about a subject I like.""...exactly the course I was looking for a long time! :)""I really like your approach to teach myself Python... So far it's the best one!""The only Python course that's kept me engaged from beginning to end.""Been loving your book so far, it progresses at a great pace and has easily been the best mode I've used to understand coding. I'm excited to learn more, thank you for creating this book that's allowing me to have fun learning again, it's been ages.""...absolutely superb... definitely understand the acclamation""...really helpful and a fun way to learn.""You're an absolute legend!""I am enjoying refreshing my Python knowledge with your book very much.""I am going through your book is great!""... helped me way more than my grad school class did.""Thank you Nathan ... You ARE an amazing teacher!""Can I just say that this is the simplest and best explanation I have ever seen ... Awesome!!""I was amazed by how you broke down complicated concepts and made them easier to understand.""I can't tell you how many times I've tried to get into programming and gave up because it was so dry. This has been such a nice change of pace and I'm loving it.""I just bought your book and have to say I enjoy it immensely so far.""...exactly what I needed to finally get past tutorial hell and apply Python to something I love.""it's been great refreshers for basic Python... I appreciate the Anki cards ... they're helping cement the terminology...""...it helped me tremendously ... I wouldn't be where I'm at with the Python language today without this book to kick start things.""...very engaging so far compared to some of the other online resources I've tried to pick this up with.""...could not be more satisfied with the content. ...it has been great to work through your in-depth examples learning new skills. I had a previous interest in this sort of analysis and have had intermediate programming experience, but never could tie the two together.""Incredible work! Bought it right away. Only 3 chapters in and this book is already better than expected. Worth every penny. Thank you!""...can definitely recommend it. It's so much easier learning coding with a subject that is familiar and one is passionate about. Thank you!""I'm flying through your book and loving every bit of it so far. The way you lay everything out is incredibly intuitive and easy to follow.""I wanted to take a moment to express my sincere gratitude for your book Learn to Code with Soccer. ... I studied electrical and electronic engineering in university, and one area that I really struggled with was coding. ... I made several attempts at taking courses in Python but struggled, failure becoming an all-too-familiar 'friend'. Your book has changed this! ... I just want to say that you have done a fantastic job and helped me tremendously in overcoming a challenge that has been weighing on the back of my mind for over 15 years.""I have decided to buy the full book and I am actually having a lot of fun so far!""Great stuff here - very well done!""I often refer back to your book since purchasing back [a few years ago].""I just finished reading and working through Learn to Code with Baseball... I enjoyed it immensely, learning a lot.""I recently purchased Tech Tools. I'm impressed by what I've read""I'm brand new to coding. I used to be a stock broker and currently a personal trainer. Very excited to take a crack at this. I read your free chapters and felt like my brain could do well with data science. Thanks for opening a new door.""Absolutely Wonderful, genuinely surprised this exists. "Before reading your explanation ... I just kind of understood [it], but I really am impressed with how simply you explained it, and how much clearer it made it for me to grasp the concept. I had previously come across your book somewhere on the internet, and was a little curious, but now seeing how well you [explain things], I am seriously considering purchasing it in the near future if I have some cash to spare." I have already been through the book once, so cheers to such awesome content and excellent idea for learning Python. I am going figure out how to slice and dice the upcoming Capitals Season, try and predict when Ovi will hit/beat 894!"Dude, this is awesome. Thank you again!I bought this for my 18 year old who's playing junior hockey looking for something to do in his spare time. He's have a good time going through the lessons and playing with hockey stats! I happen to be finishing my Sports Management Degree and my final subject is on Data Analytics; I much prefer the learning style you created in the course.— Alexander F, host of Daily NBAHi Nathan, I love the Learn to Code With Baseball book, I'm moving through it and enjoying. Thank you for combining two of my favorite things in life: Bought the soccer variation of your book a couple weeks ago, really enjoying it so far. "Your writing style and presentation has been really intuitive for me. "I am going through the first chapter now and I love how you've explained everything in a simple yet effective way." Blending my outside interests with my tech expertise never felt so fun, albeit humbling, adventure! ... I used fantasycoding.com by Nathan Braun to analyze stats. It was a great way to learn more about scraping data and creating visualizations that matter with Python. Nathan was super great in guiding you through the process."— Alfredo Bernal, CTO M Booth"This is the first time I found a book to gradually introduce and explain the ideas!!! ... It seems that not only you know the subject but also you have ways to teach it in order to be understood and be pleasant and interesting!!"I'm quite enjoying your book so far. Thanks for putting to share these!"I think your [ability] of looking at complex things for a while and being able to break them down into their simple parts in real time is rare."I just want to thank you for creating this course and I have enjoyed every part of it. [This is] what learning is all about. Previous academic courses has gotten me so disengaged... I loved LTCWFF...OMG this looks amazing "Truly impressed" "Your book is incredible... "I'm learning a lot and I'm enjoying the book so far. "Thank you so much for this offering! I was wandering the proverbial forrest trying to get going with Hockey advanced stats - I probably saved myself dozens of hours trying to piece this stuff together myself.""Thanks again for the fantastic book.""I am going through your book and find it very intuitive versus others."I thought it was great! I really enjoyed the way you used soccer as a way to teach programming concepts. It made the material much more engaging and relatable. ... I would highly recommend it to anyone who is interested in learning Python or programming in general. Thank you for writing such a great book! [My son is] already over 100 pages into the book and loving the material! Wonderful. He LOVED it! Best Xmas gift. I bought your book quite some time ago, but I haven't dug in until now. Wow. Nice work. I mean that. As a former teacher and once-upon-a-time coder, I really appreciate how you go about this. Great book. ... If you make new books please let me know. I went through your baseball book and it was FANTASTIC!!"I think the approach you're using is fantastic. "See (many) more testimonials an opinionated guide on being maximally productive with your computer. It includes all setup files, assumes no prior knowledge and covers: the terminal and shell commandstext editing up your own serverChat GPT and more! Comes with step by step setup instructions and configuration files for Windows, Mac and Chromebook computers. You can read it before Learn to Code with Baseball, after, or even by itself. In fact much of the book — which covers building "second brain" notetaking setup and using it with Chat GPT — is useful even to non-coders! "Fantastic... literally feels like it was written for me!" Get the books Buying as a gift? Click here! Python. Pandas. SQL. Machine Learning — all with MLB data data. Includes: The 300+ page book in PDF format 300+ page book in PDF format 300+ spaced repitition flash cards 23 example scripts, 10 datasets 100+ practice problems with full solutions lifetime updates 30 day money back guarantee! Maximize your productivity with this guide to key computer tools. Covers the terminal, Vim, Chat GPT, Git, servers, building a 'second brain' note taking setup and more. Can be read before, after, or separate from LTCWBB. Includes: The 225 page book in PDF formatWindows, Mac, and ChromeOS Setup Configuration FilesInteractive tutorialLifetime updates 30 day money back guarantee! Get both Learn to Code with Baseball (and files, flashcards, etc) and the Tech Tools tooling book. Includes a section on using them together. Spend some time on tooling to get more efficient, then fly through everything else. Learn to Code with BaseballTech Tools Computer Tooling BookA section on using the two books together. If you're not satisfied, contact me within 30 days and I'll refund you the purchase price. "I've taken automate the boring stuff, python for finance, etc and while those course are great... I seem to be understanding it better because its about a subject I like."Do I need to buy special software? (No)Can I give this as a gift? (Yes)Is this book good for kids? (Yes)There's multiple sports? Is there a deal if I buy more than one? (Yes)Can I expense this for work? (Probably)Do you offer a physical book? (No)Where do I get the files?Does this include updates (yes)? How do I get them?I want to make notes on the text, but it's asking for a password. "Do I need any coding experience?" No! The book assumes no prior knowledge, and many people have gone through it with zero coding experience and done just fine. That said, it does move fast and build on itself, so if you're new you understand each section before continuing. It includes end-of-chapter problems and exercises that you can use to do that, so it's not hard."Do I need any special software?"We'll learn Python, which is a free, open-source program. Detailed installation instructions are included. The book includes some optional spaced repetition flashcards to help you remember what you've learned. The official iPhone app to use these costs \$25 (it's free on Android). It's worth it IMO, but I describe workarounds if you don't want to pay this. "Can I give this as a gift?" Yes! Go here. You'll be able to redeem for a copy of the book at their convenience. "Is this book good for kids?" I've heard of kids as young as 12 working through and liking the book. It doesn't require any prior knowledge, and I explain even relatively simple concepts like "data". That said, the book does build on itself and moves pretty quickly. In general, if you have a smart kid who is into sports, it's not only doable, but fun. I'm always available to answer any questions too. "I'm not sure which sport to get — is there a deal if I buy more than one?"They all teach the same, general purpose data and analysis concepts. For most people, reading just one will be fine. That said, there are some differences, particularly around the where to get data and in the API chapters. "Can I expense this for work?" Probably! Many people have. Although you'll learn all these concepts (Python, SQL, data manipulation, visualization, and modeling) via baseball, you'll 100% be able to apply these concepts to other areas, including your day job. This is exactly what I did. I taught myself to code by playing around with fantasy football stats on nights and weekends. Then I used that — without going back to school or to a programming bootcamp — to get multiple data science jobs (both at a startup and a larger company) in non-sports fields. Company/multi license discounts are available in an electronic format. This is primarily for two reasons: It lets me keep it updated. Lifetime updates are included with purchase. It is meant to be coded along with. Ideally, you would have it up in one monitor and your Python setup on another. That said, I might make a physical version someday. And I have had some readers take it to a print shop and have them print it out and bind it. "I want to copy/make notes on the text, but it's asking for a password. "The site I use to everything out (SendOwl) password protects it automatically. I've asked them about it but they said it's random and not even they know it. Some readers and I have figured out a way around it, it just involves some manual work — if it's a problem email me and I'm happy to help. "I wouldn't be where I'm at with the Python language today without this to book to kick start things."See the full table of contentsPython — This flexible language is the foundation of everything from data munging to machine learning libraries statsmodels and scikit-learn, and how to do data visualizations with seaborn. Web Scraping and APIs — Next time you run across a site with data you'd like to analyze you'll know how to grab data via its public API if it's available, or build a web scraper to get it yourself if it's not. Machine Learning and Statistics — You'll learn the difference between a regression and a random forest, and will know when and how to build both.Databases and SQL — Build your own database — whether it's for player statistics, to keep track of opponent tenancies, etc — and use SQL to get data in and out of it.All in the context of baseball and designed so you can learn how to apply them to your own questions and do your own analysis.Hi! My name is Nate and I'm a self-taught programmer and data scientist based in Milwaukee, WI.A few years ago, I didn't know anything about Python, SQL, machine learning, web scraping or any of the way, but ultimately I figured it out. In this book, I distill everything I've learned to provide a step-by-step guide to doing baseball analytics and get you up and running as quickly as possible. Reddit and its partners use cookies, you agree to our use of cookies to deliver and maintain our services and site, improve the quality of Reddit, personalize Reddit content and advertising, and measure the effectiveness of advertising. By rejecting non-essential cookies, Reddit may still use certain cookies to ensure the proper functionality of our platform. For more information, please see our Cookie Notice and our Privacy Policy

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