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- ✔ **Video:** Vectorization  
8 min
- ✔ **Video:** More Vectorization Examples  
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- 📖 **Reading:** Clarification of "dz"  
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- ✔ **Video:** Vectorizing Logistic Regression  
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- ✔ **Video:** Vectorizing Logistic Regression's Gradient Output  
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- ▶ **Video:** Broadcasting in Python  
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- ▶ **Video:** A note on python/numpy vectors  
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- ▶ **Video:** Quick tour of Jupyter/Python Notebooks  
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- ▶ **Video:** Explanation of logistic regression cost function (optional)  
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## Heroes of Deep Learning (Optional)

The negative sign should apply to the entire cost function (both terms in the summation).

$$J(w, b) = \frac{1}{m} \sum_{i=1}^m L(y^{(i)}, \hat{y}^{(i)}) = -\frac{1}{m} \sum_{i=1}^m (y^{(i)} \log \hat{y}^{(i)} + (1 - y^{(i)}) \log(1 - \hat{y}^{(i)}))$$

